हैदराबाद विश्वविद्यालय
University of Hyderabad

प्रतिष्ठित संस्थान
INSTITUTION OF EMINENCE
राष्ट्रीय अपेक्षाएँ, वैश्विक मानक
National Needs, Global Standards

PROSPECTUS 2021-22

Online Registration Fee

Category	Fee in INR
General	600
EWS	550
OBC	400
SC/ST/PWD	275

UNIVERSITY OF HYDERABAD

(A Central University established by an Act of Parliament)

Visitor

The President of India

Chief Rector

The Governor of Telangana

Chancellor

Justice L. Narasimha Reddy

Vice-Chancellor

Prof. Arun Agarwal

Pro Vice-Chancellor -2

Prof. B. Raja Shekhar

University of Hyderabad
Prof. C. R. Rao Road,
P.O. Central University,
Gachibowli, Hyderabad 500 046,
Telangana, (India)

University's EPABX: 040-2313 0000

Our Motto

सा विद्या या विमुक्तये

forms part of a verse appearing in
Vishnu-Purana (1.19.41)

The whole verse reads as follows :

तत्कर्म यन्न बन्धाय
सा विद्या या विमुक्तये ।
आयासायापरं कर्म
विद्यान्या शिल्पनैपुणम् ।।

The verse also occurs in the anthology of subhasitas entitled "Sarangadharapaddhati" (No.4396). In this latter work, the source of the verse is given as Vasisthat. The verse obviously possesses an ethical-spiritual import and may be translated as follows:

"That is (right) action which does not conduce to bondage (Karmabandha in the Bhagavadgita sense); that is (true) knowledge which conduces to final liberation or spiritual emancipation; (any) other knowledge implies mere skill in craft

" बन्धन का कारण न हो, वही कर्म है और मोक्ष को सिद्ध करने वाली हो, वही विद्या है। इससे भिन्न कर्म व्यर्थ परिश्रम रूप और भिन्न विद्याएँ केवल कला–कौशल रूप ही हैं ।।"

WWW.UOHYD.AC.IN

Why University of Hyderabad?

Institution of Eminence

The Institution of Eminence status accorded by the Government of India to the University of Hyderabad in September 2019 is recognition of the university's standing, ability and potential to move into the league of the world's best institutions. With additional funding and autonomy, we are positioned to figure in the World's 500 Best Universities in the next few years.

Excellence in University System

The University was previously granted the status of University with Potential for Excellence (UPE) by the University Grants Commission (UGC). The University was sanctioned a grant of Rs.30 crore under UPE Phase-1 for Interfacial Studies & Research and Holistic Development for 5 years (2002-2007) and Rs.50 crore under the Phase-2 (2012-2016).

The Advanced Centre for Research in High Energy Materials (ACRHEM) on the University campus was supported by DRDO for Research on High Energy Materials to the tune of Rs.113 crore in the Phase-3.

Top Grades by various ranking agencies

The University underwent a rigorous evaluation by the National Assessment and Accreditation Council (NAAC) of the University Grants Commission. The Apex Council of NAAC awarded the top grade to the University. The University was re-accredited by NAAC, awarding us a Cumulative Grade Point Average (CGPA) of 3.72 on a 4.0 scale at 'A' grade for a period of 5 years up to Feb 2020 in the third cycle.

The University has been ranked 5th among all universities in the country. The National Institute of Ranking Framework (NIRF) ranked it 15th overall for 2020.

The University has also been rated by the NISSAT (National Information System for Science and Technology) of the Department of Scientific and Industrial Research (DSIR), Government of India, as the only University under the '**High Output High Impact'** category among the top 50 institutions in India with publications in citation index journals.

DST support for augmenting research facilities

The Department of Science and Technology (DST) of the Government of India sanctioned over Rs. 11.96 crores under the FIST (Fund for Improvement of Science and Technology) to four Science Schools of the University to augment research facilities.

In addition to this, the DST has established a High-Performance Computing Facility, Centre for Nanotechnology, Centre for Modelling, Simulation and Design at the University of Hyderabad under the FIST Programme with the total financial support of Rs.24 crore.

Member of AIU and ACU

The University is a member of the Association of Indian Universities (AIU) and the Association of Commonwealth Universities (ACU).

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ABOUT THE UNIVERSITY
&
ADMISSION BROCHURE

THE UNIVERSITY

The University of Hyderabad, a premier institution of postgraduate teaching and research in the country, was established by an Act of Parliament (Act No. 39 of 1974) on 2nd October 1974 as a Central University, wholly funded by the University Grants Commission, **is a Unitary University situated at Gachibowli, Hyderabad. University doesn't have any Study Centres or branches or Campuses or Affiliated Colleges elsewhere.**

The "objects of the University" as envisaged in the Act are: "to disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit and by the example of its corporate life, and, in particular, to make special provisions for integrated courses in humanities and science in the educational programmes of the University and to take appropriate measures for promoting inter-disciplinary studies and research in the University."

The University's scenic and serene campus is spread over a vast stretch of land measuring about 2,000 acres, on the old Hyderabad-Bombay road. Amidst the picturesque environment of the campus, several buildings catering to the academic needs, support facilities and residential requirements of the campus community have been constructed over the years. The University also has a city campus 'The Golden Threshold,' the residence of the late Sarojini Naidu which was bequeathed to the University by her daughter, the late Padmaja Naidu.

Schools of Study

School of Mathematics and Statistics
School of Computer and Information Sciences
School of Physics
School of Chemistry
School of Life Sciences
School of Humanities
School of Social Sciences
School of Economics
Sarojini Naidu School of Arts and Communication
School of Management Studies
School of Medical Sciences
School of Engineering Sciences and Technology

The Schools of Mathematics and Statistics, Computer and Information Sciences, Chemistry, Economics, Management Studies, and Engineering Sciences & Technology are single discipline schools and the others are multi-department schools.

Departments / Centres of Study & Research

The School of Physics has the following Centres:
Centre for Advanced Studies in Electronics Science and Technology (CASEST)
Advanced Centre of Research in High Energy Materials (ACRHEM)
Centre for Earth, Ocean and Atmospheric Sciences (CEOAS)

The School of Life Sciences has the following Departments:
Department of Biochemistry

Department of Plant Sciences
Department of Animal Biology
Department of Biotechnology and Bioinformatics
Department of Systems and Computational Biology

The School of Medical Sciences has the following Centres:
Centre for Health Psychology
Centre for Neural and Cognitive Sciences

The School of Humanities has the following Departments and Centres:
Department of English
Department of Philosophy
Department of Hindi
Department of Telugu
Department of Urdu
Centre for Applied Linguistics & Translation Studies
Centre for Comparative Literature
Department of Sanskrit Studies
Centre for the Study of Foreign Languages
Centre for English Language Studies
Centre for Dalit and Adivasi Studies and Translation
Centre for Endangered Languages and Mother Tongue Studies
Centre for Buddhist Studies

The School of Social Sciences has the following Departments and Centres:
Department of History
Department of Political Science
Department of Sociology
Department of Anthropology
Department of Education and Education Technology
Centre for Regional Studies
Centre for Folk Culture Studies
Centre for the Study of Social Exclusion and Inclusive Policy
Centre for the Study of Indian Diaspora
Centre for Knowledge, Culture & Innovation Studies
Centre for Human Rights
Centre for Women's Studies
Centre for Ambedkar Studies

The S.N. School of Arts and Communication has the following Departments:
Department of Dance
Department of Theatre Arts
Department of Fine Arts
Department of Communication
Department of Music

College for Integrated Studies (CIS) also offers academic programmes.
Centre for Modelling & Simulation Design (CMSD) offers M.Tech Modeling and Simulation

All Schools of the University, Departments, and Centres are located on the main campus in Gachibowli. Several of the Schools and Departments of the University have obtained financial support from the University Grants Commission under the Special Assistance Programme and COSIST for excellence in teaching and research.

Over the years, the teaching and research programmes of the University have been firmly established. The students are selected through a nationwide entrance test. About a third of the students are Ph.D. scholars and about 40% are women. Till 21st Convocation held on 1st October, 2019, a total of 31,467 students of the University had been awarded various degrees, which consists of 3,303 Ph.Ds. 4,855 M.Phils., 2,594 M.Tech.'s and 20,715 Postgraduate Degrees and Diplomas. The Faculty of the University include: 201 Professors, 83 Associate Professors, and 142 Assistant Professors. The teacher and student ratio is 1:13.

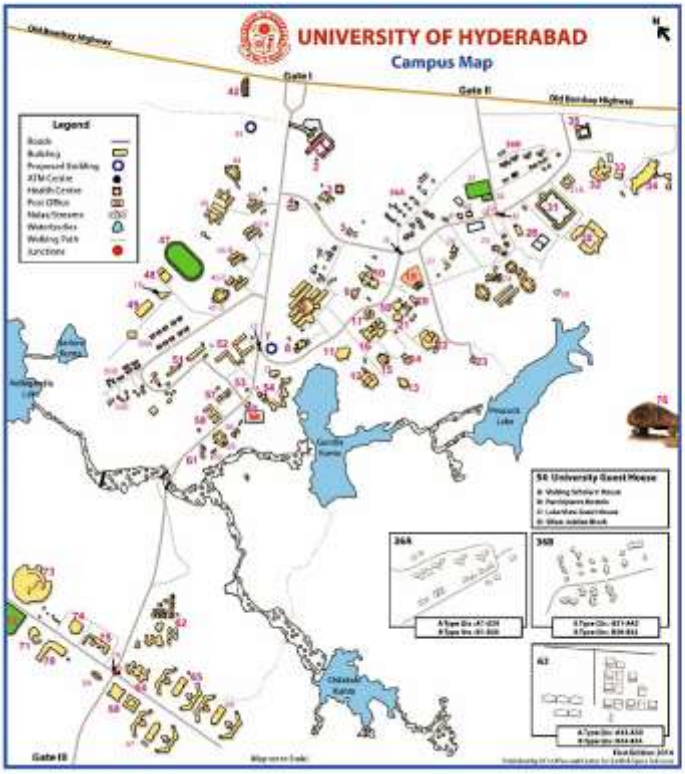
The Faculty of the University has been publishing widely and obtained research support from several funding agencies. Several faculty members have won national and international awards and honors in recognition of their outstanding work in their respective fields.

ABOUT HYDERABAD

Founded by Quli Qutub Shah in 1591, this large metropolis is unique in its rich architectural glory and blend of diverse linguistic, religious and ethnic groups and is an ideal place indeed to locate a Central University. The weather for most of the year is pleasant except for April and May when the temperature is likely to go up to 40°C. The intellectual climate is vibrant. Hyderabad is home to nine major Universities and several research institutions, laboratories, libraries, and IT companies.

UNIVERSITY OF HYDERABAD MAP

हैदराबाद विश्वविद्यालय ** హైదరాబాదు విశ్వవిద్యాలయము ** University of Hyderabad





PROGRAMMES, CRITERIA & ENTRANCE EXAMINATIONS

The medium of instruction for all the courses is English except the language courses for which the medium of instruction is the language concerned.

PROGRAMMES OF STUDY & DURATION

PROGRAMME	DURATION IN SEMESTERS
IMSc (5-year Integrated) IMSc. Courses in Sciences: Mathematical Sciences Physics Chemical Sciences Systems Biology Applied Geology Health Psychology	10
Master of Optometry (6-year Integrated)	12
IMA (5-year Integrated) **Humanities:** Hindi, Telugu, Language Sciences, Urdu **Social Sciences:** Economics, History, Political Science, Sociology, Anthropology	10
Post-graduate **M.Sc.:** Mathematics/ Applied Mathematics, Statistics-OR, Physics, Chemistry, Biochemistry, Plant Biology & Biotechnology, Molecular Microbiology, Animal Biology & Biotechnology, Biotechnology*, Ocean & Atmospheric Sciences, Health Psychology, Neural & Cognitive Sciences * Admissions for M.Sc Biotechnology will be through General Aptitude Test of Biotechnology (GAT-B) conducted by RCB Faridabad.	4
MCA NIMCET 2021 scores in order of merit, will be the only criteria for admission.	4
MBA (Health Care & Hospital Management)	4
MBA (Business Analytics)	4
MBA* Admission to MBA for 2021-22 have been completed based on the scores of the applicants in CAT 2020 followed by GD/Interview	4
Executive MBA	4
MA English, Philosophy, Hindi, Telugu, Urdu, Applied Linguistics, Comparative Literature, English Language Studies, History, Political Science, Sociology, Anthropology, Economics, Financial Economics, Communication (Media Practice) and Communication (Media Studies)	4
Certificate course in Publishing	3 months
M.Ed.	4 semesters

MPA (Dance)	4
MPA (Theatre Arts)	6
MPA Music	4
MFA Painting, Print Making & Sculpture Art History & Visual Studies	4
Master of Public Health (MPH)	4
M.Tech Computer Science, Artificial Intelligence, Information Technology[@], Information Security, Bioinformatics[^#] Materials Engineering[#], Nanoscience & Technology[#], Manufacturing Science & Engineering[#] @: Offered in collaboration with IDRBT, an RBI institute ^: Offered in collaboration with Centre for DNA Fingerprinting & Diagnostics (CDFD), Hyderabad, Integrated Circuit Technology[#] #: Admission for these courses is through CCMT Simulation and Modeling, admissions based on GATE scores	4
Integrated M.Tech (Computer Science) (5-yr Integrated) Admission through CSAB of JEE	10
Ph.D Applied Mathematics, Computer Science, Physics, Electronics Science & Engineering, Earth, Ocean and Atmospheric Sciences, Chemistry, Biochemistry, Plant Sciences, Microbiology, Animal Biology, Biotechnology, Systems & Computational Biology, English, Philosophy, Hindi, Telugu, Urdu, Applied Linguistics, Translation Studies, Comparative Literature, Sanskrit Studies, History, Political Science, Sociology, Anthropology, Education, Regional Studies, Folk Culture Studies, Gender Studies, Economics, Dance, Theatre Arts, Communication, Management Studies, Health Sciences, Psychology, Materials Engineering Nanoscience & Technology	12
Integrated MSc /Ph.D. Biochemistry & Molecular Biology, Animal Biology & Biotechnology, Biotechnology	4-16

NOTE

The University reserves the right to cancel/not to offer any of the programmes mentioned above. The University also reserves the right to increase or decrease the intake of any course due to administrative reasons.

The assigning of supervisors for candidates seeking admission to any of the Ph.D. programmes will be determined by the respective School/ Department/Centre in adherence to the limits on numbers as prescribed by the UGC regulations 2016.

CRITERIA FOR ADMISSION

The University offers excellent facilities for Postgraduate, 5-Year Integrated Master's Degree Courses, and Research Studies in several major areas in the Sciences, (including Medical Sciences, Engineering Sciences & Technology), Humanities, Social Sciences, Performing Arts, Fine Arts, Communication, and Management Studies.

Admission to the University is open to all who fulfill the prescribed qualifications without any distinction of race, creed, language or gender. The selection is on the basis of the entrance examination. The candidate should produce all original certificates at the time of admission.

Any student to be eligible for admission to the Postgraduate Degree Courses must have completed a three-year Undergraduate Degree, through an examination conducted by a University/ Autonomous College. However, as a transitory measure, a candidate who has passed a two-year degree course may also be considered for admission, provided she/he has undergone a further one-year bridge course and passed the same.

The minimum eligibility requirements for admission to the above courses are given in a tabular form at the end of this chapter.

The eligibility of candidates passing their qualifying examinations from Universities following the letter grading system / CGPA will be determined based on percentage equivalent to the letter grade/CGPA obtained by the candidates according to the conversion formula adopted by the University concerned. **In the absence of any such formula, the decision of the University shall be final and binding on the candidates.**

Candidates who may be appearing for the qualifying degree examination and expecting their results and certificates before 30.09.2021 are welcome to apply for admission.

Candidates who have completed or will be completing all the formalities, viz., written the theory examinations, completed practical examinations, submitted Project reports, completed viva-voce exams, etc. before 30.09.2021 and are awaiting the results of the qualifying degree examination and those who are due to appear in the qualifying degree examination in the above-stated aspects and expecting their results to be declared and are getting their certificates before 30.09.2021 are allowed to appear for the entrance test.

CONDITION

The condition is that, in case of their selection to a course in the University, they should submit the certificates of the qualifying degree examination and other earlier examinations positively at the time of completion of the admission. However, the University may give an extension of time up to 30.09.2021 to submit the certificates of the qualifying degree examination. Such candidates will be given conditional admission up to 30.09.2021 only. However, this facility shall not be extended to those who are taking regular or supplementary or improvement examinations of the qualifying degree after 30.09.2021 and waiting for the results. In the event of the concerned students failing to (i) submit their certificates of the qualifying Degree examination by 30.09.2021, and (ii) not passing the qualifying degree examinations with the prescribed percentage of marks, they will not be allowed to attend classes any further and their Provisional admission stands cancelled forthwith. No request

will be entertained for extension of time to submit the certificates under any circumstances beyond 30.09.2021.

In case of non-submission of mandatory academic certificates and Transfer Certificate/ Migration Certificate up to 30.09.2021, the Provisional admission of such candidates' stands cancelled forthwith.

In the case of candidates admitted into Ph.D. programmes under the result awaited category, those who have completed all the formalities including the viva voce of their M.Phil./M.Tech. Courses before the date of their admission or 30.09.2021 whichever is earlier and are awaiting their results may be allowed to submit their M.Phil or M.Tech results and certificates within a maximum period of one year from the date of their admission. During this period, they will not be paid any scholarship or fellowship. Once they submit the certificates, proving their eligibility for admission into the Ph.D., their scholarship/fellowship will be paid with retrospective effect from the date of their admission. If they fail to submit the results and the certificates within one year, their admission shall stand cancelled forthwith.

All courses at the Master's Degree level, 5-Year Integrated Master's Degree, M.Tech, 5-year Integrated M.Tech in Computer Science, and Integrated M.Sc./Ph.D. are full-time regular courses. For Ph.D. programmes, the candidates are encouraged to join as regular students. However, for those who are not in a position to research on a full time basis, a limited provision exists for part-time research. The facility is also available for external registration to Ph.D. regularly at the recognized Centres of the University. The details are given in the subsequent paragraphs of this chapter.

Students admitted to the regular courses are not allowed to pursue any other course except part-time evening Certificate/Diploma Course of a Professional nature with the prior permission of the School /Department/Centre concerned of the University. They are also not allowed to take up any employment during the period of their studies in the University. Those employed, if selected for admission, are required to submit at the time of completion of their admission, a "No Objection Certificate" besides orders from the competent authorities sanctioning leave covering the entire duration of the course, failing which, the provisional selection for admission for such candidates will be cancelled.

RESERVATION OF SEATS

Following the policy of the Government of India and the guidelines of the University Grants Commission, the University has reserved 15% of seats in each course for candidates belonging to the Scheduled Castes and 7.5% for those belonging to the Scheduled Tribes, with a provision for interchangeability between these categories, wherever necessary. **Candidates should submit a copy of the certificate of their caste/ tribe from a Revenue Officer not below the rank of Tahsildar / Mandal Revenue Officer at the time of the interview, admission/counselling.** Remedial courses in English and other subjects are conducted for such students depending upon the actual need.

For admission to all Postgraduate Courses, viz., M.A., M.Sc., M.C.A., M.F.A., M.P.A., M.B.A., M.Ed. Courses and 5-Year Integrated Master's Degree Courses, the minimum eligibility condition for SC/ST/PH candidates is **5% less** than the percentage for General/EWS & OBC

category, however in order to ensure filling up of all seats for SC, ST and PH subject to availability of candidates the minimum requirement is "Pass" in the qualifying examination.

Reservation of seats for OBC candidates

Following the policy of the Govt. of India and the guidelines of the University Grants Commission, 27% of the seats are reserved for OBC (non-creamy layer category) candidates. For admission to Ph.D., a relaxation of **only 5% marks in the minimum eligibility condition** is provided to **SC/ST/OBC and PH candidates as per the UGC Regulations, 2016**. Candidates claiming reservation under this category must enclose an attested copy of the **OBC (non-creamy layer)** certificate issued by a competent authority in the format **prescribed by GOI** without which their application will not be considered under OBC category.

Reservation of seats for Economically Weaker Sections (EWS) candidates

Following the policy of the Govt. of India and the guidelines of the University Grants Commission, **10% of the seats** are reserved for EWS candidates. Candidates claiming reservation under this category must enclose an attested copy of the certificate issued by a competent authority in the format prescribed by GOI without which their application will not be considered under the EWS category.

Note: Every candidate who claims to belong to SC or ST or OBC (non-creamy layer) or EWS has to produce a certificate to the University **before her/his admission as sufficient proof in support of the claim, to make her/him eligible for various relaxations and concessions granted to such candidates.**

The certificate should **strictly be in prescribed format issued by one of the competent authorities empowered for the purpose. No other certificate will be accepted as sufficient proof of the claim belonging to any reserved category for availing the benefits of reservations.**

The admission granted to all such reserved candidates is provisional and subject to the certificates being verified through proper channels as per rules and if the verification reveals that the claim of a candidate who belongs to SC/ST/OBC/EWS as the case may be, is false the admission will be cancelled forthwith without assigning any further reasons without prejudice to such further action as may be taken under the provisions of the Indian Penal Code for production of false certificates.

Candidates producing SC/ST certificates issued by the competent authority of the respective State Governments should also produce a certificate of valid duration at the time of admission. The OBC (non-creamy layer) certificate should be issued in the GOI format by the competent authority on or after 1.4.2018. It may please be noted that state BC/OBC certificates will not be accepted as a claim for reservation under OBC.

If it is brought to the notice of the University at any stage i.e. while pursuing a course or after the degree is awarded that the candidate got admission based on false certificate and is proved, then University reserves the right to cancel the admission/degree awarded as the case may be and also take action as per the provisions of the Indian Penal Code for production of a false certificate. The university also reserves the right to send any or all caste certificates for verification as per the Government of India rules.

Reservation of seats for the Persons with Disability (PWD) candidates

5% of seats on approved intake in each for all 5-Year Integrated PG and PG courses are provided as supernumerary seats. But in M.Tech, and Ph.D. courses PH seats are not supernumerary seats but it is within the intake notified in the Prospectus.

The minimum degree of disability for being eligible to apply under this category is **40%**, provided that their physical disability does not come in the way of pursuing the course. This includes Visually Challenged (VH), Hearing Impaired (HI) and Orthopedically Handicapped (OH) candidates etc with a provision of interchangeability. The candidates under this category should take the entrance examination for admission. Persons with Disability candidates are required to submit a certificate from a Medical Board/Civil Surgeon of a Govt. Hospital indicating the extent of visual/physical disability and also the extent to which the disability hampers the candidate in pursuing her/his studies. The candidates under this category are exempted from the payment of tuition and other fees to the University.

The candidates under this category may have to undergo a fresh medical examination, if so prescribed by the University, before being admitted.

Visually challenged candidates appearing for the entrance examinations will be given a compassionate time of 20 minutes per hour. The University will provide scribes for such candidates if requested for it.

Reservation of seats to the wards/dependents of Defence Personnel (DP)

Up to 5% of seats on the approved intake in each for all 5-Year Integrated PG and PG courses are provided as supernumerary seats for the wards of Defence Personnel (serving or retired) i.e the forces coming under Ministry of Defence. (Army, Airforce, Navy and Coast guard). The candidates should enclose a copy of the certificate issued by a competent authority in support of their claim without which their claim will not be considered. The candidates under this category should take the entrance examination for admission and also fulfill all other requirements of admission as mentioned in the Prospectus. Wards of Paramilitary personnel working under the Ministry of Home etc. are not eligible under this category.

Note

Seats are not reserved for **DP category** candidates in the **M.Tech./ 5 Year Integrated M.Tech. programmes** as per the norms of CCMT and CSAB of JEE. Besides, the seats are not reserved in **Ph.D., and Int. M.Sc. Ph.D. programmes** as there will be no supernumerary seats in these programmes as per UGC Regulations 2016.

Reservation of seats for Kashmiri Migrants

Interested Kashmiri Migrant candidates will be required to apply online for Integrated and PG courses only and pay the prescribed fee through online link only (http://.acad.uohyd.ac.in). The Hard copy of online application along with the certificate of being Kashmiri Migrant be forwarded to Section Officer (Acad), University of Hyderabad, P.O. Central University, Gachibowli, Hyderabad –500046 latest by 20.7.2021.

Note

1) No other mode of submission of application will be accepted or entertained except the procedure as laid down above.

2) If Kashmiri migrant candidates wish to appear for the Entrance Examination then they should apply separately.

Reservation of seats for candidates coming from Jammu & Kashmir under special scholarship scheme

As proposed by the UGC, two supernumerary seats have been created for admitting the students coming from the state of Jammu & Kashmir under MHRDs special scholarship scheme. As per the AICTE guidelines, this is only for those candidates who have passed 10+2 exam from the state of Jammu & Kashmir and would like to join undergraduate programmes in general degree, Medical, Architecture, Pharmacy, Law, Nursing, Agriculture, Fisheries, Horticulture, Veterinary science, etc. The candidates need to apply through the dedicated website of AICTE for joining any of the above courses in the universities/colleges allotted to them through AICTE counselling. The details of the guidelines of the special scholarship scheme for J&K may be seen at http://aicte-jk-scholarship.in

The University reserves the right to verify the caste certificate used for the claim of a seat in reserved category i.e. SC/ST/OBC/EWS/PH/DP/Kashmiri Migrant at any point of time or any stage including after awarding of the degree. If the certificate is found to be false/fake/incorrect, the admission or degree will be cancelled.

International Affairs
Admission of Foreign Nationals 2021-22

Definition:

For the purposes of admission to the UoH, the term "Foreign National" implies any candidate holding a passport of a foreign country[1]. This category would include any Person of Indian Origin (PIO) or, Overseas Citizen of India (OCI) card holder who has a foreign country's passport. NRI's with Indian Passport are Indian Nationals and therefore, cannot be considered as International Students.

Number of seats:

As per UGC guidelines Foreign Nationals will be admitted maximum of 15% over and above the approved intake in a course, depending upon the availability of adequate infrastructure. All the available seats may not be filled in a particular year if the Admission Committee of the School/ Department/Centre does not recommend anyone or if a program has inadequate infrastructure. Foreign nationals seeking admission through ICCR or other governmental agencies may apply to the University in the prescribed form through the respective bodies.

Eligibility:

Applications: The University may consider admission of foreign nationals, "*in absentia*", based on their desire "to be considered *in absentia*[2] their admission under the 15% bracket for International Student, to any program is subject to the condition that they are found suitable for admission by the Admissions Committee of the Centre/Department/School.

Academic qualification: A prospective Foreign National has to fulfil the eligibility conditions, including the required qualifying degree and marks/grades, as prescribed for Indian students. These conditions can be found in the prospectus which is available on the University website (**www.uohyd.ac.in or http://acad.uohyd.ac.in**). In case a student's parent University does not have a program which is prescribed as minimum eligibility condition, equivalent program may be considered. In this respect the Admission Committee's decision is final.

Foreign Nationals whose qualifying degree is from India and who are resident in India at the time of application, in order to be considered for admission into any program/course should take some part of the entrance examination in the form of Interviews in the University as prescribed by the Centre/Department/School. See additional requirements for School of Computer and Information Sciences, Department of Biotechnology and Bioinformatics, check web link: **http://moodle.uohyd.ac.in/index.php/component/content/article/160-admissions/international-students/339**

English proficiency: Proof of English Proficiency is essential for a candidate who is not a graduate from a University located in an English-speaking country. College education should

have had English language as a medium of instruction. Such a candidate has to provide one of the following two scores. The validity of the test should be two years from the date of examination.

i. International English Language Testing System (IELTS)-Academic version- minimum score of 6.5 is required.

ii. Test of English as Foreign Language (TOEFL)

- Paper-based TOEFL: a minimum score of 560 is required
- Computer based TOEFL: a minimum score of 220 is required
- Internet-based TOEFL: a minimum score of 80 is required.

Respective Admission committees can decide on the requirement of TOEFL/IELTS for Masters and Ph.D. admissions.

Applications are also invited for admission into Ph.D. program offered by the University. Foreign nationals are exempted from entrance test**.** The selection criteria to admit an international Ph.D. student rests on the admission committee of the academic unit, which, after examining the application (received from ICCR, SII or self-supported candidates, OCI category candidates) may seek two recommendation letters, assess previous academic performance of the candidate, and, if required, interact with the applicant by an interview (video call); the unit may then identify a potential supervisor(s) and give the recommendation for the admission of the candidate. Foreign nationals may have to provide evidence of language competence suited to the academic unit they wish to join, and the admission committee can decide on this. Students will get a certificate under IoE after completion of course and will not get the UGC Regulations, 2016 certificate.

Applications should be accompanied by copies of relevant certificates, marks sheets, two letters of recommendation from teachers, proof of financial support, together with the English version of such copies duly attested, if they are in a different language. All foreign nationals seeking admission to the University will be required to produce a medical certificate of fitness from a recognized hospital in their country. Those offered admission may also be required to undergo a comprehensive medical examination as prescribed by the University.

Deadline for receiving applications:

Foreign Nationals may apply for admission any time during the year. However, the deadline for being considered for any academic year (which generally begins in mid-July) is April 15 of that year. The decision of Admissions Committee will be intimated to the candidates by May 31. For all other details of application form and admission, please visit **http://acad.uohyd.ac.in/downloads/FN_APPLICATION.PDF**

All completed application forms with relevant documents and enclosures can be sent by e-mail to acadinfo@uohyd.ernet.in or drae@uohyd.ac.in or internationaluoh@gmail.com or by post to the Section officer (Academic Section), Office of Controller of Examinations, University of Hyderabad, P.O. Central University, Gachibowli, Hyderabad – 500 046, Telangana.

PATTERN OF THE QUESTION PAPER IN ENTRANCE EXAMINATIONS (TENTATIVE)

The question paper **should be answered only in English except in the case of admission to language courses for which the question paper should be answered in the language concerned.**

The performance of the candidates in the test consisting of Objective or Multiple Choice Questions will be evaluated using the OMR technology as listed below. The candidates will be required to mark the answers in the OMR Sheet with a blue or black ball-point or sketch pen during the test. Necessary instructions will be given in the relevant question papers.

The question paper for the following subjects shall be answered on OMR sheet:

I.M.Sc. and I.M.A. (5-year Integrated) in different disciplines; M.Sc. - Mathematics/Applied Mathematics, Statistics-OR, Physics, Chemistry, Biochemistry, Plant Biology & Biotechnology, Molecular Microbiology, Animal Biology & Biotechnology, Ocean and Atmospheric Sciences, Health Psychology; Master of Public Health (MPH); M.A. - English, Philosophy, Hindi, Telugu, Applied Linguistics, Comparative Literature, Sanskrit Studies, History, Political Science, Sociology, Anthropology, Gender Studies, Economics, Financial Economics, Communication, MPA Theatre Arts, MFA Painting, Print Making, Sculpture, Art History, and Visual Studies, MBA Health Care and Hospital Management, MBA Business Analytics, Executive MBA, Ph.D. in Applied Mathematics, Computer Science, Physics, Electronics Science & Engineering, Earth, Ocean, and Atmospheric Science, Chemistry, Biochemistry, Plant Sciences, Microbiology, Animal Biology, Biotechnology, Hindi, Telugu, , Comparative Literature, Applied Linguistics, Translation Studies, Political Science, Anthropology, Economics, Management Studies, Materials Engineering, Nanoscience and Technology and Integrated M.Sc./Ph.D. Biochemistry and Molecular Biology, Animal Biology & Biotechnology and Biotechnology and Certificate course on Publishing.

The question paper of some more subjects viz., M.P.A. Music, Ph.D. in English, Philosophy, Urdu, Sociology, Regional Studies, Sanskrit Studies need to be answered partly in OMR sheet and partly in a separate answer book as per the instructions provided in the question paper.

There is a possibility for some more subjects to be added in the above list. Therefore, the instructions on the question paper concerned shall be final. The duration of the written test for all courses will be for two hours. Late coming is allowed up to 15 minutes from the commencement of Exam and candidates will be allowed to leave the examination hall after completion of the exam only.

Applying to more than one programme

A candidate is free to apply for admission to as many courses as she/he wishes **after ensuring from the schedule for the Entrance Examination that there is no clash in the subjects of his/her choice.** The University has made the best possible efforts to avoid overlap in the schedule of examinations of related subjects to the extent possible. The candidates are advised to study the examination schedule carefully before deciding on their choice of subjects.

VERY IMPORTANT

Please read the following carefully:

The question paper for the entrance test for all courses shall consist of two parts - Part-'A' and Part- 'B'.

All candidates applying for Ph.D. courses may refer to UGC Regulations 2016 for details at http://www.ugc.ac.in/pdfnews/3375714_API-4th-Amendment-Regulations-2016.pdf

For Ph.D. courses - please see the Chapter on 'Schools of Study' for further details. The Question paper of Ph.D. courses shall consist of 70 marks in two sections, as per the UGC Regulations 2016.

Part A- 35 marks, will be on Research Methodology
Research Methodology: "The process used to collect information and data to make decisions. The methodology may include publication research, interviews, surveys, and other research techniques, and could include both present and historical information". Questions may also include those on Quantitative methods, Data interpretation, Aptitude, and Logical Reasoning.

Part B: 35 marks, will be on the subject concerned.
Negative marking in the whole Question paper or for any Part shall be the choice of the School/Department/Centre.

The Entrance Exam marks shall be used for shortlisting candidates to be called for interview. The Interview will be conducted for 30 marks.

The basis of final shortlisting of candidates for admission will be on the merit of marks obtained in written test and Interview put together.

The Admission Committees of various Schools will determine the due weightage to the following components like:

- Research Proposal and its defense
- Academic Record/Performance in PG/Gold Medal/Performance in the Written Test
- Having fellowship/M.Phil./NET/SET
- Publications
- Research Experience, etc.

The details of the exact breakup for each subject are available at the end of the Prospectus.

IN CASE OF A TIE
The following criteria shall be followed, in sequence to resolve ties, where candidates secure the same marks in the written test:
First criterion: Marks obtained in Part - A of the written test.
Second criterion: Marks obtained by the candidates in the qualifying degree/other examination. If the final result is not available, then the marks up to the 2nd year will be taken into account.
Third criterion: Marks obtained in the degree examination immediately preceding the qualifying degree examination.
Fourth criterion: Marks obtained in the next lower public examination.

Interviews for candidates short-listed for admission to Ph.D. based on the written test will be announced later.

Interviews for candidates shortlisted for admission to the courses offered by the S.N. School, M.Sc. Ocean and Atmospheric Sciences, MBA Health Care and Hospital Management, MBA Business Analytics, Executive MBA, and Int.M.Sc./Ph.D courses **will be announced later**. However, the exact dates of the interview/practical test will be notified and made available on the University website for the information of the shortlisted candidates.

QUALIFYING MARKS FOR PHD & INT. MSC/PHD

1. In accordance with the clause 5.4.1 of UGC (Minimum Standards and Procedure for award of M.Phil/Ph.D. degree) Regulations 2016 (1st Amendment), relaxation of 5% of marks (from 50% to 45%) shall be given for the candidates belonging to the SC/ST/OBC(NCL)/Differently abled Category in the defined minimum cut-off in the entrance examination conducted by the University. Hence the cut-off for Gen/ EWS candidates shall be 50% marks and for the candidates belonging to the SC/ST/OBC(NCL)/Differently abled Category it shall be 45% marks in the Entrance Exam.

2. As per the clause 5.4.2 of the UGC (Minimum Standards and Procedure for award of M.Phil/Ph.D. degree) Regulations 2016 (2nd Amendment), the candidates will be shortlisted based on their performance in the entrance examination giving 70% weightage for the written test and 30% weightage for the interview/viva-voce.

3. Only those candidates who score the minimum cut-off in the written test will be called for the Interview. As per the decision of the 78th Academic Council, if the number of candidates scoring the minimum cut-off is more, the number of candidates to be called for interview will be restricted to 1:6 ratio.

4. In case if sufficient number of candidates do not qualify the minimum cut-off as defined at sl. no 1, the candidates will be called for interview based on the percentile of marks scored in the entrance examination as resolved in the 88th Academic Council.

5. University reserves all the right to take appropriate decision regarding minimum eligibility, cut-off marks, number of candidates to be called for interview, admissions etc. The decision of the University will be final in all the processes involved right from the entrance examination application to admissions.

The **merit list for admission** will be prepared based on the performance in the **written test and interview put together**.

No cut off marks for Integrated PG and PG courses.

The University has decided not to have any cut-off marks in the entrance examination i.e., in the written test or interview or written test plus interview put together for admission to any Postgraduate course for any category during the year 2021-22.

Wherever the admission is based on written test and interview, the candidates to be called for interview in ratio as recommended by the Admission Committee, of the approved intake for the Postgraduate courses. In Ph.D. courses, the Admission Committee may recommend candidates based on their performance in the interview and aptitude towards research.

Previous Question Papers

All previous years question papers are available at the link given below:

http://igmlnet.uohyd.ac.in:8000//question-papers.html

SCHEDULE FOR NOTIFICATION OF THE ENTRANCE EXAMINATION RESULTS ETC. AND MAKING THEM AVAILABLE ON THE UNIVERSITY WEBSITE

Programmes	Tentative dates of Results announcements		
	Notification of shortlisted candidates for interviews/ practical tests	Notification of shortlisted candidates for Admission counselling	Notification of list of selected candidates s (Main & waiting lists)/Admission counselling
All PG Degree Courses and 5-Year Integrated M.A./M.Sc. courses	---	---	--
All Ph.D. courses	--	---	--
M.Sc. Ocean & Atmospheric Sciences, P.G. courses of S.N. School, MBA in Health Care and Hospital Management, MBA Business Analytics, Executive MBA, M.Tech., and Int. M.Sc./Ph.D. programmes	--		--
The exact dates shall be notified on our website.			

IMPORTANT

(i) The Entrance results will be made available only on the website: http://acad.uohyd.ac.in;
(ii) No request for extension of time for interview/practical test or completion of admission will be entertained on account of any reason/s whatsoever.

The University will not communicate any of the above information to the candidates concerned by post. Therefore, it is the responsibility of the candidates to obtain the information on their selection by visiting the University website.

COMMENCEMENT OF CLASSES (Tentative)

All PG courses/5-year Integrated/M.Tech. /Int. M.Sc.-Ph.D. courses ----
All Ph.D. programmes ----

1) Wherever the interview is an essential component of the entrance examination for admission, though a candidate may have secured more in the written test, than the marks secured by the last candidate under the selected list, if that candidate has not appeared for the interview she shall not be entitled to admission.

2) **Part-time registration to Ph.D.:** Facility exists to 1/8th of the total strength for all Schools/ Departments/Centres except the School of Computer Information Sciences (SCIS) and School of Engineering Sciences and Technology (SEST) which can have up to 25% for part-time registration for Ph.D. Programmes. Persons engaged in teaching and research in reputed institutions are eligible for admission under this category, provided they fulfill the minimum eligibility requirements and are found successful in the entrance examination as prescribed.

This facility is limited to those working in the twin cities (Hyderabad and Secunderabad) in respect of Science Schools (except Mathematics and Statistics) and anywhere in Telangana and Andhra Pradesh for the remaining Schools. However, the conversion of part-time Ph.D. to full-time Ph.D. is not permissible.

3) **External Registration to Ph.D.:** The University also provides facilities for admission to the Ph.D. under the External Registration category. The external candidate shall work at the recognized institution. The admission procedure is the same as in the case of regular admissions to Ph.D. Candidates will be under joint supervision viz., one from the University and the other from the recognized institution.

In the case of External Registration to Ph.D. in Computer Science, the candidates who are working in the following Institutes given below in the twin cities alone are allowed to register under this category. Candidates who register under external registration should have a recognized co-guide/ Co-supervisor (recognized by the University) from the parent organization (listed below), and also a guide/ Supervisor from the School/ Department.

LIST OF THE EXTERNAL CENTRES RECOGNIZED BY THE UNIVERSITY

S.No.	Name of the Institution	Subject/s of Research
1	National Remote Sensing Centre	Physics, and Earth Ocean and Atmospheric Sciences
2	National Geophysical Research Institute (NGRI)	
3	Defence Metallurgical Research Laboratory	Physics, Engineering Sciences & Technology
4	National Institute of Rural Development (NIRD)	Economics and Anthropology
5	Centre for Economic and Social Studies	
6	National Institute of Small Industry Extension Training	Economics
7	Institute of Public Enterprise	
8	Advanced-Data Processing Research Institute	Computer Science
9	Advanced Numerical Research and Analysis Group (ANURAG)	
10	Research Centre Imarat (RCI)	
11	Institute for Development and Research in Banking Technology (IDRBT)	
12	ICAR - Indian Institute of Rice Research	Life Sciences

13	ICAR - Indian Institute of Oil Seeds Research	
14	International Crops Research Institute for Semi-Arid Tropics (ICRISAT)	
15	Centre for DNA Fingerprinting and Diagnostics (CDFD)	
16	Institute of Life Sciences (ILS)	
17	Bharat Biotech Foundation	
18	L V Prasad Eye Institute	Biochemistry, Animal Science and Medical Sciences
19	Shantha Biotechnics	Animal Sciences
20	Indian Immunologicals Ltd.	
21	National Institute of Nutrition (NIN)	Biochemistry
22	National Institute of Animal Biotechnology	Animal Sciences, Biochemistry, Biotechnology and Bioinformatics
23	International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI)	Engineering Sciences & Technology
24	Non-ferrous Materials Technology Development Centre (NFTDC)	
25	Asian Health Care Foundation	Medical Sciences
26	Indian National Centre for Ocean Information Sciences (INCOIS)	Earth Ocean and Atmospheric Sciences
27	Prof. C.R. Rao Advanced Institute of Mathematics, Statistics and Computer Science	Computer Science, Mathematics & Statistics, Biotechnology, and Bioinformatics
28	M/s Zen Technologies Pvt Ltd	Computer Science

Ph.D. admissions for January 2022 Session: to be announced later

Release of admission announcement	

Commencement of online submission	
Last date for submitting online application	
Downloading of Hall tickets for written test	
Entrance Examinations (written test)	
Sorting and handing over of the descriptive answer books to the Schools/ Departments/Centres	
OMR Evaluation	
Submission of written test (descriptive) results to CE's office	
Notification of list of selected candidates for interview	
Interviews for the Ph.D. programmes	
Submission of the final results for the above courses	
Notification of the list of selected/Waitlisted candidates available on the website	
Admissions for Ph.D. programmes	
Commencement of classes	

After completion of the regular admissions in June/July 2021, vacant seats if any, in the Ph.D. programmes may be filled, for which the candidates have to apply in the prescribed application form. The written test will be conducted at Hyderabad centre only. Based on the written test performance, candidates will be shortlisted for Interview. Selections for admission will be made based on the performance of the candidates in the written test and interview.

For the courses of School of Life Sciences, the admission for January-2022 session with be based on fellowships only and there will not be any Entrance Exam.

The University will not issue any press notification for the Ph.D. January 2022 session. However, information indicating the likely number of seats to be filled in each School/Department/Centre, will be available at the University's website: www.uohyd.ac.in and http://acad.uohyd.ac.in/

Note

Candidates for admission to Ph.D. during the above session should possess the certificates of their qualifying degree examination **by the date of their interview**. **Selected candidates must submit all their qualifying degree certificates, TC/MC and other certificates required at the time of admission. Extension of time will not be granted for submission of any of the certificates during this session and the provisional selection for admission will automatically stand cancelled in the case of those who are unable to submit the certificates required for admission on the date of completion of the admission formalities.**

Semester-wise Registration System

To maintain an effective enrolment of students and their progress in their studies/research, the University has introduced a system of student registration at the beginning of each semester for all the courses offered on regular basis including part-time/external registration for Ph.D. A schedule for semester-wise registration is given in the Academic Calendar in the Prospectus. However, a schedule for semester wise registration will be notified by the Academic Section from time to time. Students of all the courses (P.G./ I.M.A./I.M.Sc. (5-Year Integrated) / M.Tech./ Ph.D./Integrated M.Sc./Ph.D.) are required to clear their dues of the earlier semester/s in all respects to be eligible for the registration to the following semester.

Every Ph.D. student (regular/part-time/external) should enclose a copy of the report of the doctoral committee of the previous semester to the requisition form of the semester registration, without which ongoing semester registration will not be done.

Implementation of Credit System for all the courses

The credit system has been implemented for all the courses/programmes offered by the University. The guidelines for the evaluation of students under this system are available in Chapter 6 of this brochure.

General Instructions for applying to the Entrance Examination:

Age limit for 5-Year Integrated Courses: Candidates within Four (4) years from the date of completion of +2 (Intermediate/Higher Secondary/etc.) will be eligible.

Read instructions carefully

Before filling the Online Application Form, candidates are advised to read the instructions carefully and complete the form accordingly, particularly about their performance in the qualifying degree or earlier examinations. This is necessary since the performance of the candidates in the qualifying degree and earlier examinations shall be used in determining relative positions in the merit list for those candidates who secure the same marks in the written test (tie cases). The entrance examination fees once paid will not be refunded.

If a candidate applies in a particular category, she/he will be considered only for that category. For example, if a candidate applies under OBC/EWS/PH/DP and pays the fees accordingly (ie. less than the General Category) and could not produce the certificate then he/she will not be considered as General Candidate, as he has not paid the required application fees.

The tentative last date for submitting the online applications for admissions for the July session is 20-7-2021. For further details, please refer to the "Instructions to the Candidates for filling the application form".

All disputes are subject to Hyderabad jurisdiction.

While giving information under the RTI Act 2005, the personal information like mobile no., address of the applicant will not be disclosed.

Hall Tickets for the Entrance Examinations:

- The Hall Tickets will be made available for download on the University website (to be announced later)
- The university will not send the hall tickets by post.
- The candidates are required to download the hall tickets and appear for the examination at the Centre allotted. Candidates will not be permitted to write the entrance exam at any other Centre except the Centre mentioned in the hall tickets downloaded.

IMPORTANT

It may be noted that all those who apply may be issued Hall Tickets without verifying whether or not they fulfill the eligibility criterion for admission to a course. This will be examined at the time when final admission is granted. The candidates are therefore advised to go through

the Prospectus-cum-application 2021-22 carefully and judge their eligibility before submitting their application forms. Despite this caution, in case the candidates do not meet the minimum eligibility criteria and still apply for the entrance examination, they will do so at their own risk and cost. **Mere issue of Hall Ticket and allowing a candidate for entrance examination including interview/practical test and allowing a candidate to complete the provisional admission will not entitle a candidate for any claim on the provisional admission if she/he does not fulfill the required eligibility conditions for admission as prescribed in the Prospectus-cum-application form 2021-22 which will be verified at the time of admission. At any stage (during the pursuance of the course/programme if it is found that any candidate does not fulfill the minimum eligibility requirements or had submitted a fake educational or caste certificate, the provisional admission that was granted, shall be cancelled forthwith.**

Bringing in political pressure/ influence in any manner at any stage i.e. entrance examination, admission or while pursuing the course will lead to cancellation of admission.

Use of cell/mobile phones in the Examination Hall is strictly prohibited.

Candidates will be required to produce the Hall Ticket at the time of the entrance examination/ interview/ practical test and completion of admission, if granted.

Prime Minister's Research Fellows (PMRF) Scheme

From the year 2020, the University of Hyderabad is a fellowship granting institution under the prestigious Prime Minister's Research Fellows (PMRF) Scheme, Ministry of Education, Government of India. After joining the Ph.D. programs offered by all science schools, all the eligible students are encouraged to apply for the fellowship under the PMRF scheme. The University of Hyderabad issues internal circulars inviting applications from all the eligible Ph.D. scholars for internal scrutiny and selection for nomination by Internal Expert Committee. From the nominations sent from the University, the central PMRF selection committee will select the final candidates through a rigorous selection process, and the candidates' performance will be reviewed suitably through a national convention. The following would be the fellowship for the PMRFs:

Year	Amount (Rs) per Month
Year 1	70,000
Year 2	70,000
Year 3	75,000
Year 4	80,000
Year 5	80,000

Apart from the fellowship, each Fellow would be eligible for a research grant of Rs. 2 Lakhs per year (total of Rs 10 Lakhs for five years).

For the year 2020, already 9 PMRF fellows have been selected for the University of Hyderabad

LIST OF ENTRANCE EXAMINATION CENTRES

S.No.	CENTRES	S.No.	CENTRES
1.	Ahmedabad	21.	Lucknow
2.	Aizawl	22.	Mahabubnagar
3.	Anantapuramu	23.	Mumbai
4.	Bengaluru	24.	Nagpur
5.	Bhopal	25.	Nalgonda
6.	Bhubaneswar	26.	Nizamabad
7.	Kozhikode	27.	Patna
8.	Chennai	28.	Pune
9.	Coimbatore	29.	Raipur
10.	New Delhi	30.	Ranchi
11.	Dimapur	31.	Sambalpur
12.	Guwahati	32.	Shillong
13.	Hyderabad	33.	Srinagar
14.	Imphal	34.	Tirupati
15.	Jaipur	35.	Vijayawada
16.	Jammu	36.	Varanasi
17.	Kadapa	37.	Visakhapatnam
18.	Karimnagar	38.	Vizianagaram
19.	Kochi	39.	Warangal
20.	Kolkata		

IMPORTANT

1. The University reserves the right to cancel any of the above centres and allot another nearby centre to the applicants of the Centre cancelled.
2. University reserves the right to not operate a centre if the number of applications received is less than 300 or for any administrative reasons. The candidates are therefore advised to give 3 choices of Centres in the online application form.
3. If any of the examination/s could not be held in any of the session/s due to sudden declaration of bandhs, hartals, etc. at any of the above centres, the University shall not be held responsible for the same and fresh examination /s at such centres for the year will not be held again under any circumstances.
4. The venue of the Examination Centre will be mentioned in the hall ticket.
5. Based on the number of candidates, the venues at the centres may be increased.
6. The Entrance Exams may be Online or Offline

FEE STRUCTURE FOR THE ACADEMIC YEAR 2021-22

1. Courses
2. Other fee (Per Sem)
3. Tuition Fee (Per Sem)
4. Students Welfare/Union Fund (Per Annum)
5. Medical Fee (Per Annum)
6. Student Aid Fund (Per Annum)
7. Deposits (Refundable)
8. Grand Total

Figure in Rupees

Sl.No	Courses	Other Fee	Tuition fee	Students Welfare / Union Fund	Medical Fee	Students aid fund	Deposits (Refundable)	Grand Total
	1	2	3	4	5	6	7	8
1	**M.A. (5-year Integrated), M.A.** Courses in Humanities/ Social Sciences/ Economics & Certificate Course in Publishing		2180	480	1200	220	1780	5960
2	**6 – Year Int. M.Sc**. (M. Optometry)	6600	14375	480	1200	220	3200	26075
3	**M.Sc**. Maths/Statistics/ Physics		3235	480	1200	220	2125	7260
4	**M.Sc.** Chemistry/ Plant Biology & Biotechnology/ Molecular Microbiology/ Ocean and Atmospheric Science/ Neural & Cognitieve Science, M.Sc. (5-year Integrated) Sciences /Applied Geology / & M.Sc. (5-year Integrated) Health Psychology upto 6th semester fees is shown at sl.No.4 of this Table, and from 7th semster onwards fee payable is shown at serial no. 8 of this Table		3385	480	1200	220	3200	8485
5	**M.Sc.** Biochemistry	825	3385	480	1200	220	3200	9310
6	**M.Sc.** Animal Biology & Biotechnology	3000	3385	480	1200	220	3200	11485
7	**M.Sc**. Biotechnology		8380	480	1200	220	3200	13480
8	**M.Sc**. Health Psychology & M.Sc (5 Years Integrated) Health Psychology fees from 7th semester onwards	3300	7975	480	1200	220	3200	16375
9	**M.P.A.** Dance/ Theatre Arts / Music		3385	480	1200	220	2125	7410
10	**M.F.A.** Painting/ Print Making/ Sculpture/ Art History	1250	3385	480	1200	220	2125	8660
11	**M.A.** Communication (Media Practice)	8000	3950	480	1200	220	2125	15975
12	**M.A.** Communication (Media Studies	6000	3950	480	1200	220	2125	13975
13	**M.C.A.**	4750	18030	480	1200	220	2125	26805
14	**M.B.A.** General	5500	38610	480	1200	220	4530	50540
15	**M.B.A.** Business Analytics	12500	106555	480	1200	220	4530	125485

16	**Executive M.B.A. (At the time of admission) +**	93485	100000	485	1200	200	4530	200000
	II Semester & IV Semester		200000	0	1200	0	0	200000
	III Semester		198015	485	1200	200	0	200000
17	**M.B.A.** Health Care M.P.H. - Master of Public Health	5855	49125	480	1200	220	4530	61410
18	**5-year Integrated M.Tech (CS)**	4750	17940	480	1200	220	2125	26715
19	**M.Tech.** (CS / AI / IT) M.Tech. (IC Technology & Bioinformatics) M.Tech. – Materials Engineering	4750	17940	480	1200	220	2125	26715
20	**M.Tech –** Nanoscience & Technology	6250	17940	480	1200	220	2125	28215
21	M.Tech – Information Security ; and M.Tech Modelling & Simulation	7500	38475	480	1200	220	2125	50000
22	Ph.D. (Full – time) Humanities /Social Sciences and Economics		3145	480	1200	220	1780	6725
23	Ph.D. (Full – time) Mathematics / Statistics-OR/ Computer Science/ Physics/ Electronics Science and Engineering, Management Studies, S.N.School, & Psychology		4205	480	1200	220	2125	8130
24	PhD Chemistry / Life Sciences/ ACRHEM/ Earth & Space Science/ Medical Sciences		4205	480	1200	220	3200	9205
25	**Int. M.Sc./ Ph.D.** Biotechnology		4205	480	1200	220	3200	9205
26	**Int. M.Sc./Ph.D.** Biochemistry & Molecular Biology / Int. M.Sc./Ph.D Animal Biology & Biotechnology	825	3500	480	1200	220	3200	9325
27	**Ph.D.** Materials Engineering, Nano Science & Technology		10855	480	1200	220	3200	15855
28	**Ph.D. Part –Time / External Registration** Humanities /Social Sciences and Economics		3775	480	1200	220	1780	7355
29	Mathematics / Statistics-OR/ Computer Science/ Physics/ Electronics Science and Engineering, Management Studies, S.N.School & Psychology		4925	480	1200	220	2125	8850
30	Chemistry / Life Sciences/ ACRHEM/ Earth & Space Science/ Medical Sciences		4925	480	1200	220	3200	9925

IMPORTANT

1. Fee shown at Sl No. 8 has to be paid at the time of admission
2. Fee shown at Sl.No. 2 & 3 has to be paid in every semester
3. Fee shown at Sl.No. 4 to 6 has to be paid in July – December semester every year. Medical Insurance fee will be as per actuals and Non-Refundable
4. + There is no scholarship or fee reimbursement scheme for this programme.

FEES PAYABLE BY FOREIGN STUDENTS

S.No	Programme	Foreign students and NRI students fees per semester (in US $)		SAARC & Korean students fees per semester (In US$)	
		For each semester	one-time Development Fee at the time of admission	For each semester	one-time Development Fee at the time of admission
1.	Master in Computer Applications, 5-year Integrated M.Tech (Computer Science), M.Tech (CS/AI/IT), M.Tech (IC Technology & Bioinformatics) M.Tech Materials Engineering, M.Tech Nanoscience & Technology	1550	1000	750	500
2.	M.Tech Modeling and Simulation, M.Tech – Information Security.	2000	1000	1000	500
3.	M.B.A. General, M.B.A. Business Analytics, M.B.A. Health Care & Hospital Management, & MBA Executive	7250	1000	3600	500
4.	MPH-Master of Public Health, 6-years Integrated M.Sc. M. Optometry, M.Sc. Mathematics/Statistics/Physics, M.Sc. Chemistry/Plant Biology & Biotechnology/ Molecular Microbiology/Ocean and Atmospheric Science/Neural & Cognitive science, M.Sc. (5-year Integrated) Sciences/Applied Geology/ 5-Year Integrated Health Psychology, M.Sc. Biochemistry, M.Sc. Animal Biology & Biotechnology, M.Sc. Biotechnology.	1550	1000	750	500
5.	M.A. (5-year Integrated), M.A. Courses in Humanities, Social Sciences & Economics, M.P.A. Dance/Theatre Arts/Music, M.F.A. Painting/Print Making/Sculpture/Art History, and Certificate course in Publishing	900	1000	450	500
6.	M.A. Communication (Media Practice)	2000	1000	1000	500
7.	M.A. Communication (Media Studies)	1800	1000	900	500
8.	Ph.D (Full time) Humanities / Social Sciences and Economics	1200	1000	600	500
9.	Ph.D. (full-time) Mathematics/Statistics-OR/ Computer Science/ Physics/ Electronics science and Engineering, Management Studies, S.N. School & Psychology Ph.D Chemistry/ Life Sciences/ ACRHEM/ Earth & Space Science/ Medical Sciences Integrated M.Sc./Ph.D Biotechnology Integrated M.Sc./Ph.D. Biochemistry & Molecular Biology / Integrated M.Sc./ Ph.D. Animal Biology & Biotechnology, Ph.D Materials Engineering, Nano Science & Technology	1550	1000	750	500

IMPORTANT

- Medical Insurance fee every year (July-December Semester) is payable as per actuals in Indian rupees and non-refundable and may vary on year to year basis.
- Students Welfare/Union Fund and Students aid fund mentioned at previous page (column No.4 & 6) should also be paid in Indian Rupees every year during (July-December Semester).
- Deposits mentioned at Column No.7 is to be paid in Indian Rupees at the time of admission.
- Foreign Nationals/ NRIs are required to pay the above specified semester fees and Rs.360 towards the Alumni fund in Indian Rupees.

Minimum qualifications and Intake for admission to various courses for the Academic Year 2021-22 (July 2021 Session)

Integrated Master's degree Programmes (5-years)

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
M.Sc. (5-Year Integrated) in Sciences	Mathematical Sciences Physics Chemical Sciences Systems Biology Applied Geology	20 20 20 20 10	With a minimum of 60% marks at +2 level of education with Science subjects only. **NOTE:** For admission to Mathematical Sciences and Physics stream, it is essential to have **Mathematics** as one of the subjects at **+2 level.** **NOTE:** Candidates admitted to I.M.Sc. Chemical Sciences should be able to conduct their experiments on their own. There will be no provision for allowing any assistance or scribe to do the experiments.		---
M.Sc. (5-Year Integrated)	Health Psychology	20	With a minimum of 60% marks at +2 or equivalent in Arts or Sciences.		--
M.A. (5-Year Integrated) in Humanities	Telugu Language Sciences Hindi Urdu	19 19 10 05	With a minimum of 60% marks at +2 level of education with Telugu/English/ Hindi/Urdu as one of the subjects. (**Note**: The students who are applying for Telugu/English/Hindi/Urdu should have studied respective subjects at +2 level.) In case a student has not studied Telugu / Hindi/Urdu as one of the subjects, he/she should have passed an oriental title examination equivalent to Intermediate (i.e. + 2 level) in Telugu / Hindi/Urdu by Government of India or any State Government thereof along with + 2 level. **Note:** Candidates who are applying for Telugu should have studied Telugu as first language in Class X.		---
M.A. (5-Year Integrated) in Social Sciences	Economics History Political Science Sociology Anthropology	14 13 13 14 13	With a minimum of 60% marks at +2 level of education		--

Note: The running of any programme/course is subject to a minimum of five students taking admission.

Integrated Master in Optometry (6-Years)

Integrated Master of Optometry (M.OPT)	**Optometry**	28	Biology, Chemistry, Physics and Mathematics and English at +2 level with a minimum of 60% marks.		--

Note: Candidates those who have passed the qualifying examination (Intermediate / Higher Secondary / etc) within the last Four (4) years will only be eligible to apply.

Post-graduate Programmes

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
M.Sc.	Mathematics/ Applied Mathematics	50	Bachelor's degree with a minimum of 60% marks in the aggregate of optional subjects with Mathematics/ Statistics as one of the subjects; OR with at least 55% of marks for those students who have done B.A. /B.Sc. (Hons) course in Maths / Statistics.		--
M.Sc.	Statistics-Operations Research	25	Same as above		---
M.Sc.	Physics	56	B.Sc. with a minimum of 60% marks in the aggregate of subjects with Physics as one of the main subjects in combination with Mathematics OR with at least 55% marks in degree with a minimum of 60% in the aggregate of science subjects: Physics, Mathematics, and Electronics.		---
M. Sc.	Chemistry	56	B.Sc. with a minimum of 60% marks in the aggregate of Science subjects with Chemistry as one of the subjects, preferably in combination with Physics and Mathematics. **NOTE:** Candidates admitted to M.Sc. Chemistry should be able to conduct their experiments on their own. There will be no provision for allowing any assistance or scribe to do the experiments.		---
M.Sc.	Biochemistry	26	B. Sc. with a minimum of 60% marks in the aggregate of Science subjects with Chemistry or Biochemistry as one of the subjects.		---
M.Sc.	Plant Biology & Biotechnology	23	B. Sc. with a minimum of 60% marks in the aggregate of Science subjects with at least one of the following subjects: Chemistry, Botany, Genetics, Microbiology, Biochemistry, and Biotechnology.		---
M.Sc.	Molecular Microbiology	15	B. Sc. with a minimum of 60% marks in the aggregate of Science subjects with at least one of the following subjects: Zoology, Genetics, Biotechnology, Biochemistry, Botany, Microbiology, Life Sciences.		---
M.Sc.	Animal Biology and Biotechnology	23	B.Sc. with a minimum of 60% cumulative marks in the Science subjects.		---

MPH	Public Health	38	Bachelor's degree in Medicine, Dentistry, AYUSH, Physiotherapy, Occupational therapy, Nursing, Nutrition, Pharmacology, Veterinary Sciences, Agricultural Sciences, Social sciences or any other science degree. Degree holders in arts and humanities with an interest in public health are also encouraged to apply. Applicants should have a minimum of 55% marks in the qualifying bachelor's degree examinations.		
M.Sc.	Ocean & Atmospheric Sciences	10+2*	With at least 55% marks in the Bachelor's degree in any branch of Science with Mathematics and Physics as compulsory subjects at the B.Sc. level, OR B. Tech. in Civil / Mechanical / Electrical. *Sponsored		
M.Sc.	Health Psychology	15	With a minimum of 60% marks at the Graduate level with Psychology as one of the subjects for 3 years.		
M.Sc.	Neural and Cognitive Sciences.	16	Minimum prerequisite is Bachelor's degree with a minimum of 55% marks in any branch of Natural Sciences, Mathematics, Engineering and Computer Science; Social sciences, Humanities, MBBS.		

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
M.A.	English	56	At least 50% marks in the Bachelor's degree with at least 50% marks in English as optional subject; **OR** at least 50% marks in the Bachelor's degree with at least 55% marks in English as a compulsory subject.		---
Certificate course	Publishing	20	Graduate of any discipline		
M.A.	Philosophy	28	Bachelor's degree in any subject(s) with at least 50% marks in aggregate.		---
M.A.	Hindi	47	1. A Bachelor's degree with 40% marks in any subject with Hindi as one of the optional subjects/compulsory subjects/or second language. 2. A Bachelor's degree with 40% marks in any subject with a Post Graduate Diploma in Hindi or Translation studies in Hindi (PGDTS)/Functional Hindi. 3. A Bachelor's degree with 40% marks in any subject with an oriental title examination of B.A. standard approved by the Government of India or any State Government, like 'Praveen' and 'SahityaRatna' or any other title recognized thereof.		--
M.A.	Telugu	56	With at least 50% marks in the Bachelor's degree with at least 50% marks in Telugu as an optional subject; OR with at least 50% marks in the Bachelor's degree with at least 55% marks in Telugu as the compulsory subject.		--

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
M.A.	Urdu	25	With at least 50% marks in the Bachelor's degree or equivalent with at least 50% marks in Urdu, Persian or Arabic as optional papers; OR Bachelor's degree or equivalent with at least 55% marks in Urdu, Persian or Arabic as a compulsory subject i.e. as a second language.		---
M.A.	Applied Linguistics	25	At least 50% marks or an equivalent grade in any Bachelor's degree (10 + 2 + 3 patterns) in aggregate with 50% marks in English as a compulsory or optional subject.		---
M.A.	Comparative Literature	25	At least 50% marks or an equivalent grade in any Bachelor's degree with 50% marks or an equivalent grade in English as compulsory or optional subject.		---
M.A.	Sanskrit Studies	15	B.A. in Sanskrit/Shastri/Vidwanmadhyama/Acharya OR Graduate from any discipline with Sanskrit as one subject at School/Higher Secondary/College level OR Graduate from any discipline with a certificate or PG Diploma in Sanskrit		
M.A.	English Language Studies	23	Graduates from any discipline with at least 50% marks (with English as a subject in High School, Intermediate and at least one year in the Graduate programme, with at least 55% marks in English).		
M.A.	History	65	With at least 50% marks in the Bachelor's degree and at least 50% marks in History; OR with at least 50% marks in the Bachelor's degree and at least 55% marks in aggregate in the allied subjects viz. Political Science, Public Administration, Economics, Sociology, Anthropology, Indology, Archaeology, Ancient Indian History and Culture OR Bachelor's degree in any subject(s) with at least 60% marks in aggregate.		---
M.A.	Political Science	65	Bachelor's degree with at least 50% marks or Equivalent Grade in Social Sciences or Humanities subjects OR 55% marks in any other subject.		--
M.A.	Sociology	65	With at least 50% marks in the Bachelor's degree and at least 50% marks in the subject concerned OR with at least 50% marks in aggregate in the allied subjects viz., all Social science subjects, Philosophy, Communication, Linguistics; OR Bachelor's degree in any subject (s) with 60% marks in aggregate.		---
M.A.	Anthropology	30	At least 50% marks in the Bachelor's degree.		---
M.Ed.	Education	50	Minimum qualifications as per NCTE norms (should have obtained at least 50% Mark's or an equivalent grade in the following programs) **1.** B.Ed.; **2.** B.A. B.Ed./ B.Sc. B.Ed.; **3.** B.El. Ed. **4.** D.El. Ed. with an undergraduate degree with 50% marks in each		
M.A.	Gender Studies	20	With at least 50% marks in the Bachelor's degree in any stream from Social Sciences or Humanities or Sciences with a minimum of 50%.		

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
M. A.	Economics	75	A Bachelor's degree in Economics with at least 50% marks in aggregate and at least 50% marks in Economics; OR Bachelor's degree with at least 60% marks in any of the allied subjects viz. Commerce, Statistics, Mathematics, Engineering or any of the Social Sciences subjects.		--
M. A.	Financial Economics	37	A Bachelor's degree in Economics with at least 50% marks in aggregate and at least 50% marks in Economics; OR Bachelor's degree with at least 60% marks in any of the allied subjects viz. Commerce, Statistics, Mathematics, Engineering or any of the Social Sciences subjects like History, Political Science, Sociology, Anthropology. AND Mathematics at +2 Level		--

PG Programmes offered by the Sarojini Naidu School of Arts and Communication

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
M.P.A.	Dance Kuchipudi & Bharatanatyam	10 10	Bachelor's degree in dance; OR Bachelor's degree in any subject with a professional diploma or certificate in dance recognized by the University; OR Bachelor's degree in any subject with a certificate from a reputed Guru recognized by the University to the effect that the candidate has undergone training in dance under him/her for a period not less than five years. *(The experience/training certificate should be furnished during the practical test.*) OR A candidate with 10+ 4 years fulltime diploma from Kalakshetra Foundation, Chennai with one-year practical work experience in an institution; OR A candidate with 10 + 2 + 4 years full-time diploma from Kalakshetra Foundation, Chennai.		
M.P.A.	Theatre Arts	17	Any graduate with an aptitude for Theatre. Experience in Theatre or any Performing Art will be an added advantage.		

M.P.A.	Music	20	Bachelor's degree in Music in the concerned subject and stream with a minimum of 55% in the aggregate or equivalent CGPA; OR Bachelor's degree in any subject with a professional Diploma in Music in the concerned subject and Stream, with a minimum of 55% in the aggregate or equivalent CGPA, recognized by the University; OR Bachelor's degree in any subject with a minimum of 55% in the aggregate or equivalent CGPA with a Certificate from a reputed Guru recognized by the University to the effect that the candidate has undergone training in music in the concerned subject and stream under him/her for a period not less than five years. (The experience/training certificate should be furnished during the practical test) * No ceiling on age		
M.F.A.	Painting Printmaking Sculpture	17 10 10	Bachelor's Degree in Fine Arts BFA/BVA or BA (Fine Arts). Essential requirements at the time of application: i) Applicant must specify the stream (Painting/Print Making/Sculpture) on priority basis on which they wish to apply to the Department of Fine Arts. Painting/Print Making/Sculpture 1…… 2…… 3…… NOTE: In addition to the online application form submitted to the University of Hyderabad, each applicant must also send a soft copy of the online application along with15 properly labeled digital images of recent works to snfa.entranceimages@uohyd.ac.in		
M.F.A.	Art History & Visual Studies	10	Bachelor Degree in Fine Arts: BFA, BVA or BA (Fine Arts). Candidates from related disciplines like History, Sociology, Literature and Anthropology may also be considered provided they demonstrate evidence of aptitude in Art History, capacity to read visual images and demonstrate adequate knowledge of contemporary artistic practices. Students must provide evidence of training or practice in visual arts at the time of the oral interview by bringing sketchbooks, art works or photographs of their original art works.		

M.A.	Communication (Media Studies)	25	Graduate in any degree with a minimum of 55% marks		
M.A.	Communication (Media Practice)	25	Graduate in any degree with a minimum of 55% marks		

Management Studies Programmes

MBA	**Health Care & Hospital Management**	37+5*	A Bachelor's Degree from a recognized University with a minimum of 60% marks in Ayurvedic, Homeo, Unani, Dental, Physio Therapy, Nursing, Pharmacy, Pharm. D, Medical Lab Technology, Biomedical, and Biotechnology. Candidates with MBBS background with 55% marks are eligible to apply. Work experience in the Medical/Health Care sector is highly desirable. ***Industry sponsored candidates**		
MBA	**Business Analytics**	37+5*	Bachelor's degree or it's equivalent with a minimum of 60% marks or equivalent grade of any recognized University. Preference will be given to those who have an academic background/experience in Engineering/ Mathematics / Statistics ***Industry sponsored candidates**		
Executive MBA (Weekend)		40	Bachelor's degree or its equivalent with a minimum of 55% marks or equivalent grade of any recognized University. Applicants should also have a minimum of THREE years of work experience.		
M.Tech.	**Modeling and Simulation**	36+ 10*	Eligibility is as mentioned below :		

M.Tech. Modeling and Simulation

In qualifying degree (as referred in **special eligibility**), the candidates should have passed and secured at least 6.5 CGPA (on a 10- point scale) or 60% for GEN/GEN-EWS/OBC, whereas 6.0 CGPA (on a 10-point scale) or 55% in case of SC/ST/PwD candidates. **The above mentioned CGPA/Percentage should be awarded by a recognized University/Institute.** Only primary mode of evaluation (CGPA or percentage) as mentioned in the qualifying degree certificate/mark sheet shall be considered while verifying eligibility.

A. Special eligibility

Specialization	**Allotted seats**	**Eligibility**
Computational Chemistry	**06**	**1. B.Sc. (Hon)** in Chemistry or Physics with Mathematics as background **OR M.Sc.** in (Chemistry/Chemical Sc./Chemical Eng./Chemical Technology/Physics) with Mathematics as background in B.Sc. **OR BE/B.Tech.** (Chemical Sc./Chemical Eng./Chemical Technology or allied branches). **AND** **2.** Valid **GATE** score in Chemistry/Chemical Engineering
Computational Materials Engineering	**10**	**1. BE/B.Tech** (Metallurgical, Mechanical, Production, Aerospace, Ceramic, Chemical Engineering or Technology, **BSc(Hons) or MSc** Chemistry/Physics/Materials Science/ Solid State Physics

		AND **2.** Valid **GATE** score in Aerospace Engineering/ Chemical Engineering/ Production and Industrial Engineering/ Mechanical Engineering/ Metallurgical Engineering/Chemistry/Physics/Engineering Sciences.
Computational Biology	**10**	**1. BE/B. Tech.** (Computer science and engineering, Information Technology, Bioinformatics, Computational Biology, Biotechnology, Chemical engineering, Biochemical engineering, Biomedical engineering, Bioelectronics engineering, Food and bioprocess engineering); **B.Sc.(Hon)/M.Sc.** (Biotechnology, Bioinformatics, Biophysics, Biochemistry, Bioinformatics, Computational Biology); **B.Pharm.** **Note:** Candidates are eligible if studied Mathematics as one of their core subjects in their degree course. **AND** **2.** Valid **GATE** score in Bio-Technology(BT), Biomedical engineering (BM)/ Computer Science & Information Technology(CS)/ Pharmacy(PY)/ Chemical Engineering(CH)
No specialization	**10**	**1. BE/B.Tech.** (CSE/CS/AI/IT) **or MCA or MSc.**(CS/AI/IT) **AND** **2.** Valid **GATE** score in Computer Science & Information Technology(CS)

i. *When applying after Graduation, the degree should be of **minimum four years** durations.*
ii. *Specialization is given if the graduation degree is in the respective/allied field and fulfilling the essential credits*
iii. *In addition to the above 36 seats, 10 Sponsored seats.*

Eligibility for the Sponsored seats:
Candidates with the mentioned minimum qualification and with **three years of experience** from any Government R&D Labs/Public sector Units/Publicly listed Companies are eligible to apply under the sponsored mode. When it comes to companies, the following companies only will be considered: (i) Listed company in any stock exchanges in India or (ii) Company with Corporate Social Responsibility (CSR) (Ministry of Corporate Affairs has notified Section 135 and Schedule VII of the Companies Act as well as the provisions of the Companies (Corporate Social Responsibility Policy) Rules, 2014 (CSR Rules) which has come into effect from 1 April 2014 and certain amendment in May 2016).
Shortlisted candidates will be called for the interview and the admission will be based on the performance in the interview according to merit. The eligibility criteria are the same as regular mode except for the GATE score.

Int. M.Sc.-Ph.D. /Ph.D. Programmes

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Int. M.Sc.-Ph.D.	**Biochemistry and Molecular Biology**	06	B.Sc. with a minimum of 60% marks in the aggregate of Science subjects with Chemistry or Biochemistry as one of the subjects.		

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Int. M.Sc.-Ph.D.	**Animal Biology & Biotechnology**	06	B.Sc. with a minimum of 60% cumulative marks in all Science subjects.		
Int. M.Sc.-Ph.D.	**Biotechnology**	06	With at least 55% marks in Bachelor's degree under 10+2+3 pattern of education in Physical, Biological, Agricultural, Veterinary and Fishery Sciences, Pharmacy, 4 Year Engineering / Technology, B.Sc. (Physician Assistant Course) or Medicine (MBBS) or BDS. **AND** Qualifying degree should have been awarded within 2 years preceding the year of the entrance examination.		
Ph. D.	**Applied Maths**	02	With at least 55% marks or equivalent grade in Master's degree in Mathematics/Applied Mathematics		
Ph. D.	**Computer Science**	15	With at least 55% marks in Master's Degree in any Engineering/Technology/ Computer Applications / Computer Science / Mathematics / Statistics / Electronics / Information Systems / Internet Technology / Geo-informatics / Bioinformatics OR with 60% marks in B.E./B.Tech. OR M.Phil. in Mathematics or Statistics or Electronics.		
Ph.D.	**Physics**	22	With at least 55% marks in M.Sc. degree in Physics or closely related subject/Master's degree in Technology with sufficient Physics background		

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Ph.D.	**Electronics Science and Engineering**	3	(a)At least 60% aggregate marks in the Master's degree in Electronics Science /Electronics/Applied Electronics/ Electronics and Communication**/** Engineering Physics & Instrumentation/ Physics(with Electronics as one of the Subjects)/ Radio physics**/** Radio Physics & Electronics **OR** (b) with at least 60% aggregate marks in the B.E./ B.Tech., in Electronics, Instrumentation and Control Engineering/ Electronics and Communication Engineering/ Electronics and Control systems/ Electronics and Information Systems**/** Electronics and Instrumentation/ Electronics Engineering/ Electronics Science and Engineering/ Electronics Technology/ Instrumentation**/**Instrumentation & Electronics Engineering./ Instrumentation & Control Systems/ Instrumentation Technology		
Ph.D.	**Earth, Ocean and Atmospheric Sciences**	06	With at least 55% marks in Master's degree in Geology/Applied Geology/ Geophysics/ Applied Geophysics/ Ocean Sciences/ Atmospheric Sciences/ Meteorology or a closely related area		
Ph. D.	**Chemistry**	16	With at least 55% marks in M.Sc. OR equivalent degree in Chemistry or in allied subjects. (Note: B.Tech. in Chemical Engineering, B.Pharm., M.Sc., in Physics or Life Sciences etc., are treated as allied subjects for this purpose)		
Ph.D.	**Biochemistry**	14	With at least 55% marks in M.Sc. in Biochemistry or in a closely related area or M.Sc. / M.Tech. in Bioinformatics or MBBS.		
Ph.D.	**Plant Sciences**	10	With at least 55% marks in M.Sc. in any branch of Life Sciences or M.Tech. in Bioinformatics/Biotechnology.		
Ph.D	**Microbiology**	04	With at least 55% marks in M.Sc. in any branch of Life Sciences or M.Tech. in Bioinformatics/Biotechnology.		
Ph. D.	**Animal Biology**	05	With at least 55% marks in Master's degree in Animal Biology or in any area of Life Sciences/M.Tech in Bioinformatics or Biotechnology, M.Pharm, or M.V.Sc.		

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Ph.D.	**Biotechnology**	13	With at least 55% marks in Master's degree in Biotechnology/Biology or a closely related area/ Medical Biotechnology/ Biomedical Science/ MSc Systems Biology/5-year Integrated MSc in Systems Biology/Biology or related areas OR an MBBS/ M. Tech. Biotechnology/ M.Sc./M.Tech Bioinformatics, M. Pharm, M.V.Sc with a minimum of 55% marks.		
Ph.D.	**Systems and Computational Biology**	05	With at least 55% marks in M.Sc. in Bioinformatics/ Systems Biology/ Computational Biology with minimum 55% marks OR 5-year Integrated M.Sc. in Systems Biology with minimum 55% marks OR Master's degree with 55% marks in Biotechnology/ Physics/ Chemistry/ Mathematics/ any branch of life sciences (Zoology, Botany, Microbiology, Biochemistry, etc.) OR MBBS /MVSc/ M.Tech./ M. Pharm. Following are also desired: 1. Have studied both Mathematics and Biology upto Intermediate i.e. 10+2 standard. 2. One or more of the following skill sets: computer programming (R /C /Python /Java /Fortran /Mat lab etc.), knowledge of Calculus and numerical methods, Mathematical modelling, Molecular modelling and simulations, Statistics and Machine learning methods, Bioinformatics tools..		
Ph. D.	**English**	03	With atleast 55% marks in Master's degree in English.		
Ph. D.	**Philosophy**	05	With atleast 55% marks in MA Philosophy. Exceptionally good candidates from related fields may be considered subject to the availability of expertise within the Department.		
Ph.D.	**Hindi**	15	With atleast 55% marks in Master's degree in Hindi		
Ph.D.	**Telugu**	08	With atleast 55% marks in Master's degree in the subject concerned		
Ph. D.	**Urdu**	11	With atleast 55% marks in Master's degree in the subject concerned		

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Ph. D.	**Applied Linguistics**	03	a)With atleast 55% marks in M.A. in Linguistics / Applied Linguistics with at least 55% marks or an equivalent grade. OR (b) MA in allied subjects with a minimum of 55% marks/equivalent grade plus a PG Diploma in Linguistics/Applied Linguistics (Allied subjects include Language & Literature, Philosophy, Anthropology, Sociology, Psychology, Computer Science, Mathematics, Statistics, Communication Studies, Cognitive Science) **Note: Candidates should have acquired their PG degree in English medium only.**		
Ph.D.	**Translation Studies**	03	a) With at least 55% marks in M.A. in Linguistics/Applied Linguistics/ Translation Studies/Literature OR (b) M.A. in any other discipline with a minimum of 55% marks/equivalent grade. **Note: The candidates who passed their qualifying examination in a non-English medium should have a minimum of 60% marks in English as one of the subjects at their graduate examination.**		
Ph.D.	**Comparative Literature**	04	With at least 55% marks or an equivalent grade in Master's degree in Comparative Literature or in any language / literature or allied / relevant discipline. The candidate must have adequate knowledge of at least two languages / literatures (one of which may be English).		
Ph.D.	**Sanskrit Studies**	02	a) With at least 55% marks in Master's Degree in Sanskrit or equivalent/Natural Language Processing OR; b) With at least 55% marks in B.A.M.S.		
Ph. D.	**History**	08	With at least 55% marks or Equivalent Grade in M.A. in the subject concerned OR Master's degree in any subject with at least 55% marks OR Equivalent Grade in any subject. **The Medium of the Ph.D. Programme is English.** **All the students applying for the Programme are required to have adequate English language skills.**		

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Ph. D.	**Political Science**	18	With at least 55% marks or Equivalent Grade in Master's degree in Political Science/any Social Sciences /Humanities subjects		
Ph. D.	**Sociology**	14	with at least 55% marks in Master's degree in Sociology or other Social Sciences including Cultural Studies		
Ph. D.	**Anthropology**	04	With a minimum 55% marks in M.A. /M.Sc. in Anthropology OR M.A. in any allied subject with at least 55% marks (**Allied subjects**: Sociology/Social Work/ Development Studies/Demography/Gender Studies/Tribal Studies/Social Exclusion and Inclusive Policy Studies/Folklore/Education/ Public Health/Rural Development/Cultural Studies/Communication/Linguistics/Philosophy		
Ph.D.	**Education**	02	With at least 55% marks or equivalent grade in Master's in Education/Psychology/Philosophy/ Sociology/Social Anthropology/Adult and Continuing Education/Population Studies/Social Work/Women Studies/English		
Ph.D.	**Regional Studies**	04	With at least 55% marks or equivalent grade inM.A. in any Social Science discipline OR M.Sc. in Geography / Disaster Management/ Environment Studies Eligible candidates with a willingness to work in the identified thrust areas of research at the Centre which include – Development, Urban & Regional issues, Environment, Disasters, Tribal Studies, Violence, and collective identities will be preferred. **Course work is compulsory for all students in Ph.D. in the Centre.** **Note: Candidates should have an M.A. degree in English medium only.**		
Ph.D.	**Folk Culture Studies**	01	With at least 55% marks in Master's degree in any of the subjects in Social Sciences, Humanities, Fine Arts, Performing Arts, and Communication. **Note: The medium of instruction and submission of the thesis shall be in English only.**		
Ph.D.	**Gender Studies**	04	With at least 55% marks or an equivalent grade in Master's degree from any discipline in Social Sciences and Humanities or a Master's in Women's/Gender Studies		

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Ph.D.	**Economics**	05	M.A. in Economics (with at least 55% marks or Equivalent Grade) OR Master's degree in the allied subjects (Commerce, Statistics, Mathematics, Engineering, and Management or any of the Social Science subjects) with at least 55% marks or Equivalent Grade).		
Ph.D.	**Dance**	02	With atleast 55% marks in the concerned subject in Master's degree OR Master's degree with at least 55% marks in any subject.		
Ph.D.	**Theatre Arts**	04	With at least 55% marks in Masters' degree in Theatre Arts/Drama/ Performance studies.		
Ph.D.	**Communication**	02	With at least 55% marks in Master's degree in the subject concerned OR With at least 55% marks in any subject in Master's degree		
Ph.D.	**Management Studies**	12	With at least 55% marks in Master's degree or its equivalent in Management or Commerce or Accounting (MBA, M.Com, C.A, ICWA, etc.)		
Ph.D.	**Health Sciences**				

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
	Public Health	01	a. Master's Degree in Public Health with at least 55% marks in aggregate in qualifying examination. b. Master's degree in any stream of Health Sciences, Indian Systems of Medicine, Applied sciences, Allied Health Sciences, Nursing with at least 55% marks in aggregate in qualifying examination. c. Master's degree holders in Life sciences, Social sciences, Medical Social Work, Behavioral sciences, Health Management and Health Administration with at least 55% marks in aggregate in qualifying examination. Applicants of b. and c. categories above should have demonstrable & documented Public Health Experience of 2-years in addition to the minimum qualifications criteria which will be assessed during the time of interview. Note: JRF holders in Social Medicine & Community Health of UGC-NET with eligibility are also eligible to appear for interview without appearing for University Entrance Examination. Other JRF holders but with demonstrable & documented Public Health Experience of 2-years , can also appear for interview without writing the university entrance examinations for Ph.D in Public Health.		
	Biomedical Sciences	02	With at least 55% marks in aggregate or its equivalent grade in Master's degree in Biochemistry/Animal Sciences/Biotechnology/ Biosciences/ Toxicology/ Pharmacology /Microbiology from a corresponding statutory body. **AND** JRF in Life Sciences (UGC/ CSIR/ICMR)	**No written test will be conducted**	
Ph.D.	**Psychology**	10	With at least 55% marks in Master's Degree in Psychology		

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Ph.D.	**Cognitive Science**	02 + 02	Master degree in Neural and Cognitive Science, Cognitive Science, any basic science, B.Tech in any branch of engineering with a minimum of 55% pass percentage for all. Specialization: • Bilingual language processing with EEG and eye tracking experience at M.Sc level or other research position • Individual difference in visual cognition. Experience with Eye Tracking in Cognitive Psychology is mandatory. • Publications in relevant disciplines is desirable With a minimum of 55% in Master's or Integrated Masters degree in any of the following branches , Neural and Cognitive Science , Cognitive science or any branch of science like Physics, Systems biology, Life science, Neuroscience etc. or B.Tech/M.Tech in Electronics, Instrumentation and Computer science related areas. Candidates having interest in combining computation and experiments in the areas of neural circuits and behaviour using models systems are encouraged to apply		
Ph.D.	**Materials Engineering**	06	M.E./M.Tech. or equivalent Master's degree in Metallurgy; Mechanical (Production/ Manufacturing Engineering); Materials Engineering; Ceramic Engineering/ Technology or Engineering Physics, Chemical Engineering; Nanoscience and technology OR Bachelor's degree in Engineering/Technology in any of the above disciplines. OR Master of science degree in Physics/Chemistry/ Materials Science/Nano Science and Technology **Candidates should have at least 55% marks in the respective qualifying exam.**		

Course	Subject		Minimum Qualifications for admission	Date and time of the written test	Date and time of Interview
Ph.D.	**Nano Science and Technology.**	02	M.E./M.Tech. or equivalent Master's degree in Metallurgy; Mechanical (Production/ Manufacturing Engineering); Materials Engineering; Ceramic Engineering/ Technology; or Engineering Physics, Chemical Engineering; Nanoscience and technology, Electronics Engineering*, OR Bachelor's degree in Engineering/Technology in any of the above disciplines. OR Master of science degree in Physics/Chemistry/Materials Science/Nano Science and Technology, Environmental science* **Candidates should have at least 55% marks in the respective qualifying exam**.		

Note:

1. The medium of instruction for all the courses is English except the language courses for which the medium of instruction is the language concerned.

2. For calculating the prescribed percentage of marks for admission to M.Sc./MCA/ M.A. Courses in History, Political Science, Sociology, Anthropology and Economics, the marks obtained in the language papers of the qualifying degree will be excluded.

3. The marks in Hons/Core subjects of B.A. (Hons), B.Sc. (Hons) degrees will only be taken into account for calculating the prescribed percentage of marks.

4. For admission to all Postgraduate Courses, viz., M.A., M.Sc., M.C.A., M.F.A., M.P.A., M.B.A. , M.Ed. Courses and 5-Year Integrated Master's Degree Courses, the minimum eligibility condition for SC/ST/PH candidates is 5% less than the percentage for General/EWS & OBC category, however in order to ensure filling up of all seats for SC, ST and PH, subject to availability of candidates the minimum requirement is "Pass" in the qualifying examination.

5. For M.Tech courses the minimum eligibility of marks in the qualifying exam is relaxed by 5% for SC and ST candidates.

6. As per UGC Regulations, 2016, the minimum eligibility for applying for admission to Ph.D. for General & EWS category is 55% marks or equivalent in PG and for SC/ST/OBC/ PwD the minimum eligibility is 50%.

List of Programmes for which admission is through other modes/examinations				
Course	**Subject**	**Intake**	**Minimum Qualifications for admission**	
M.Sc.	**Biotechnology**	30	Bachelor/s degree under 10+2+3 pattern of education in Physical, Biological, Agricultural, Veterinary and Fishery Sciences, Pharmacy, 4 years Engineering/Technology, B.Sc. (Physician Assistant Course) or Medicine (MBBS) or BDS with at least 55% marks. Candidate required to submit applications with the qualified rank in GAT-B – 2021. Selection is based on General Aptitude Test of Biotechnology (GAT-B-2021) examination, conducted by RCB Faridabad	**Through** General Aptitude Test of Biotechnology (GAT-B) examination, conducted by RCB Faridabad, New Delhi. **Counselling at UoH**
M.C.A.	**Computer Applications**	40	First Class Bachelor's degree with at least 60% marks in aggregate, in any discipline. **NIMCET 2021 scores** in order of merit, will be the only criteria for admission.	**Through counselling at UoH**
MBA	**Business Management**	75	Bachelor's degree or it's equivalent with a minimum of 60% marks or equivalent grade of any recognized University. Note: The admissions for the academic year 2020-22 have been completed based on the percentile scores of the applicants in CAT 2020 followed by Group Discussion/Interview. (Note: Admissions over for the academic year 2021-22 based on CAT 2020 percentile scores followed by Group Discussion/Interview.)	**Through CAT Scores (Already admission completed)**

M.Tech	**IC Technology**	18 + 12*	**Regular mode: (18 seats)** Valid GATE Score in Electronics & Communication Engineering/ Instrumentation Engineering / Physics. with Either (a) at least 60% aggregate marks in the Master's degree in Electronics Science /Electronics/Applied Electronics/ Electronics and Communication/ Engineering Physics & Instrumentation/ Physics(with Electronics as one of the Subjects) / Radio physics/Radio Physics & Electronics. OR (b) at least 60% aggregate marks in the B.E./ B.Tech., in Electronics, Instrumentation and Control Engg/ Electronics and Communication Engg/ Electronics and Control systems/ Electronics and Information Systems/ Electronics and Instrumentation/ Electronics Engineering/ Electronics Science and Engineering/ Electronics Technology/ Instrumentation/Instrumentation & Electronics Engg./ Instrumentation & Control Systems/ Instrumentation Technology **Note: Valid GATE scores in the order of merit, in one of the following subjects, will be the criterion for admission. (1)Electronics and Communication Engineering (2) Instrumentation Engineering (3) Physics. No other written test or interview will be conducted.** GATE Fellowship is extended to all candidates admitted to M.Tech (I.C technology) in regular mode. *Note: The counseling for M.Tech IC Technology regular mode is through Centralized Counseling for M.Tech Admissions (**CCMT).** Therefore the eligibility is as per CCMT guidelines.* *** Sponsored seats** Candidate with the above-mentioned minimum qualification and with three years of experience from any Government R&D Labs/Public sector Units/Publicly listed Companies are eligible to apply under the sponsored mode. When it comes to companies, the following companies only will be considered: (i) Listed company in any stock exchanges in India or (ii) Company with Corporate Social Responsibility (CSR) (Ministry of Corporate Affairs has notified Section 135 and Schedule VII of the Companies Act as well as the provisions of the Companies (Corporate Social Responsibility Policy)Rules, 2014 (CSR Rules) which has come into effect from 1 April 2014 and certain amendment in May 2016). **Shortlisted candidates will be called for the interview and the admission will be based on the performance in the interview according to merit. The eligibility criteria are the same as regular mode except for the GATE score.** **The students admitted in sponsored mode will not get any fellowship.**	**Admissions to regular mode is through CCMT only**

M.Tech.	**Computer Science** **Artificial Intelligence** **Information Technology** **Information Security**	45+5* 30+5* 30+5* 18+5*	First class with minimum of 60% marks in Bachelor's degree in Engineering/Technology (B.E/B.Tech)/ MCA/M.Sc. in (Computer Science/ Information Science/ Electronics) and valid GATE score in **Computer Science & Information Technology** * **Sponsored**	**Admissions through CCMT**
M.Tech.	**Bioinformatics**	25	The qualifying degree for this program includes B.Tech./B.E./M.Sc. in Bioinformatics, Biochemistry, Biotechnology, Applied Microbiology, Biology, Biomedical Genetics, Bio-Sciences, Life Science, Life Sciences (Botany), Life Sciences (Zoology), Microbiology, Agricultural Science, Biochemical Engineering, Biomedical Engineering, Biotech Engineering, Bioengineering, Biological Sciences and Bioengineering, Biomedical Instrumentation and Biosciences. GATE qualification with the subjects, Biotechnology-BT, Chemistry-CY, Chemical Engineering-CH, Biomedical engineering - BM, Life sciences – XL, and Ecology and Evolution- EY will only be considered for admission.	**Admissions through CCMT**
M.Tech.	**Materials Engineering**	18	Bachelor's degree in Engineering/Technology (B.E/B. Tech) in Aerospace Engineering, Ceramic Engineering/ Technology, Chemical Engineering, Industrial and Production Engineering, Manufacturing Engineering, Materials Engineering, Mechanical Engineering, Metallurgical Engineering, Master's degree in Chemistry, Materials Science, Nano-science & Technology, Physics with a valid GATE score in any of the following: Aerospace Engineering, Chemical Engineering, Industrial and Production Engineering, Mechanical Engineering, Metallurgical Engineering, Chemistry, Physics, Engineering Sciences .	**Admissions through CCMT**
M.Tech.	**Nanoscience and Technology**	18	Bachelor's degree in Engineering/Technology (B.E/B. Tech) in Ceramic Engineering/ Technology, Chemical Engineering, Industrial and Production Engineering, Manufacturing Engineering, Materials Engineering, Mechanical Engineering, Metallurgical Engineering, Electronics Engineering, Nanoscience and Technology, Master's degree in Chemistry, Materials Science, Nano-science & Technology, Physics with a valid GATE score in any of the following: Chemical Engineering, Industrial and Production Engineering, Mechanical Engineering, Metallurgical Engineering, Chemistry, Physics, Engineering Sciences, Electronics Engineering. The admission is through Centralised Counselling for M. Tech, i.e., CCMT.	**Admissions through CCMT**

M.Tech	**Manufacturing Science and Engineering**	18	Bachelor's degree in Engineering/Technology (B.E/B.Tech) in Mechanical Engineering, Industrial Engineering, Production Engineering, Manufacturing Engineering, Materials Engineering, Metallurgy, Aerospace Engineering, with a valid GATE score in any of the following: Industrial and Production Engineering, Mechanical Engineering, Metallurgical Engineering. The admission is through Centralized Counselling for M. Tech., i.e., CCMT.	**Admissions through CCMT**

Note: ***Minimum Eligibility criteria for all the above M.Tech. Courses are as per CCMT guidelines. For further details, Please refer to : https://ccmt.nic.in/CCMTRegistration2021/Report/SeatMapping.aspx?boardid=105012121***

5-year Integrated M.Tech.	**Computer Science**	30	As per JOSAA/CSAB guidelines. One of the criteria for admission is that the candidate should satisfy at least one of these two criteria: (i) The candidate is within the category-wise top 20 percentile of successful candidates in their respective Class XII (or equivalent) examination of the respective stream and Board. (ii) The candidate has secured minimum 75% (for GEN or OBC-NCL) or minimum 65 % (for SC, ST or PWD) of aggregate marks in Class XII (or equivalent) examination of the respective stream and Board	**Seats will be allocated as per Centralized Counselling of JOSAA/ CSAB**



SCHOOLS OF STUDY & RESEARCH

SCHOOL OF MATHEMATICS & STATISTICS

The School offers facilities for intensive training and research in the areas of Mathematics, Statistics and Operations Research.

Prof. R. Radha is the Dean of the School.

The School aims to train people who are oriented towards research and teaching in advanced areas of Mathematics, Statistics and Operations Research. Special attention is given to foundational topics.

The School offers research facilities in the following areas:

- Algebraic groups, Representation Theory, Non -Commutative Ring theory, Hopf Algebras, Lie Algebras, Algebraic Geometry, Combinatorial Number Theory, Analytic Number Theory, Dynamical Systems, Topological Dynamics, Many Valued Logic.

- Fluid Dynamics, Ordinary Differential Equations, Partial Differential Equations, Numerical PDE, Fractional Differential Equations.

- Modelling and Analysis of Large Data, Bayesian Modelling, Modelling of Spatio-temporal Data, Bioinformatics/Genomics, Reliability, Survival Analysis, Statistical Inference, Extreme Value Theory.

Programmes of study

The School offers **I.M.Sc.**, **M.Sc.** and **Ph.D.** Programmes.

The M.Sc. Programme is offered in three streams namely, Mathematics, Applied Mathematics and Statistics-Operations Research. This programme is spread over a period of four semesters. For each stream, there are separate core courses and electives.

The School offers Ph.D. programmes in Mathematics, Applied Mathematics and Statistics. Students admitted to these programmes are required to satisfactorily complete their course work recommended by the School in the first two semesters in order to continue their Ph.D. They are also expected to take part in the weekly colloquium / seminar of the School.

The School also participates in the 5-Year Integrated M.Sc. Programme in Mathematical Sciences, which is administered through College for Integrated Studies.

Entrance Examination

The entrance examinations for admissions to various courses are aimed to assessing the candidate's understanding of the concepts rather than capacity of memorization.

M.Sc. in Mathematics/Applied Mathematics/Statistics-OR

Admission to M.Sc. (Mathematics/Applied Mathematics and Statistics-OR) is based on a written test. There are two separate entrance examinations for admission to M.Sc. in Mathematics/Applied Mathematics and M.Sc. in Statistics. The written tests consist of objective type questions only.

M.Sc. in Mathematics/Applied Mathematics

A majority of the questions for M.Sc. Mathematics/Applied Mathematics will be on the following topics:

- Sets, sequences, series, limits, continuity, differentiation, integration, graphs of functions.
- Coordinate geometry of two and three dimensions.
- Group theory, ring theory, vector spaces.
- Matrices, determinants, linear transformations, rank, nullity, eigenvalues, system of linear equations, elementary probability and logical reasoning.

M.Sc. in Statistics-OR

A majority of the questions for M.Sc. Statistics-OR will be on the following topics:

- Sets, sequences, series, limits, continuity, differentiation, integration, graphs of functions, vector Spaces, matrices, determinants, linear transformations.
- Elementary probability - events, independent events, conditional events, Bayes' theorem, Chebyshev's inequality.
- Random variables and their distributions – Binomial, Poisson, Geometric, Negative Binomial, Uniform, Normal, Exponential, Gamma, Beta.
- Inference – methods of moments and ML estimation, test for mean and variance of the normal distribution, contingency Tables, simple linear regression.
- Linear Programming Problem- graphical solution.

Important notes

- The admission will be made separately for M.Sc. Mathematics (including Mathematics and Applied Mathematics) and M.Sc. Statistics
- At the end of the first year, students of M.Sc. Mathematics will be given the option to choose either Mathematics or Applied Mathematics
- Students cannot change between Mathematics/Applied Mathematics and Statistics

Ph.D in Mathematics/ Applied Mathematics/ Statistics-OR

Admission to Ph.D. programme in Mathematics/Applied Mathematics/Statistics-OR is based on a written test. There are two separate entrance examinations for admission to Ph.D. in Mathematics/Applied Mathematics and Ph.D. in Statistics. All written tests consist of objective type questions only. There is no vacant seats in Ph.D Mathematics and Statistics-OR for the year 2021-22.

Candidates clearing the entrance test will be called for an interview as per the merit list.

Both the written tests consist of two parts.

- PART A has questions related to Research Methodology.
- PART B has questions on the following topics:
    - For Ph.D. in Mathematics/Applied Mathematics: Linear algebra, real analysis, complex analysis, ordinary differential equations, partial differential equations, calculus of variations, functional analysis, measure and integration, algebra, number theory and numerical analysis.
    - For Ph.D. in Statistics-OR: Probability and measure theory, real analysis, linear algebra and matrix theory, inference, linear models, design and analysis of experiments, sampling.

The topics listed above are not exhaustive.

Important notes

- Candidates qualifying in the National level tests awarding Fellowships (i.e., JRF's who qualify in CSIR/UGC Tests and/or NBHM-Ph.D. Test) will be exempted from writing the Ph.D. Entrance Examination and they will called for interview, in which case, they will be allotted 50 marks towards the written test. If a JRF holder takes the Ph.D. entrance test then he/she will be allotted the maximum of 50 marks and the marks obtained in the entrance test out of 70 marks and then called for the interview.
- The Ph.D. interview will be for 30 marks for all candidates who are called for the interview, i.e., without making any distinction between those who qualify in the National level Fellowship awarding tests or the entrance examination.

Faculty

Professors

B. Sri Padmavati, Ph.D. (University of Hyderabad) - Fluid dynamics
R. Radha, Ph.D. (IIT Bombay) - Fluid dynamics
M. Bhattacharjee, Ph.D. (University of Pune) - Modelling and analysis of heterogeneous data
Saroj Panigrahi, Ph.D. (Berhampur University) - Differential equations
A. Sankaranarayanan, Ph.D. (TIFR, Mumbai) - Analytic number theory

Associate Professors

B. Shobha, Ph.D. (IIT Delhi) - Statistical Inference and Reliability
M. Sumanth Datt, Ph.D. (University of Hyderabad) - Representation Theory, Non -Commutative Ring theory
T.K.S. Moothathu, Ph.D. (University of Hyderabad) -Topological Dynamics
T. Suman Kumar, Ph.D. (Sorbonne Université, Paris) - Population dynamics, Nonlinear PDE
Sachinkumar B. Bhalekar, Ph.D (University of Pune) - Analysis, Dynamical Systems, Fractional Differential Equations

Assistant Professors

Mohan C. Namdev, Ph.D. (HRI, Allahabad) - Combinatorial Number Theory
Archana. S. Morye, Ph.D. (HRI, Allahabad) - Algebraic Geometry

B.G. Manjunath, Ph.D. (University of Siegen, Germany) - Extreme Value Theory
P. Chiranjeevi, Ph.D. (University of Hyderabad) - Dynamical Systems
V. Nageswara Rao, Ph.D. (IIT Hyderabad) - Many Valued Logic
Biswajyoti Saha, Ph.D. (IMSc, Chennai) - Analytic Number Theory (on lien)
S. Anjana, Ph.D. (CUSAT, Cochin) - Survival Analysis, Nonparametric Inference
Abhay Soman Anant, Ph.D. (IIT Bombay) - Algebra

Adjunct Professor:
Arup Bose, ISI, Kolkata

Visiting Professor:
M. R. Srinivasan, Madras University, Chennai.

DST Inspire Faculty:
Vineet Reddy Chintala, Ph.D. (IIT Bombay)

Vacancy positions for Ph.D. with the faculty and the areas of supervision:

S.No.	Faculty Name	Areas of Supervision	Ph.D. Vacancies
1	B.Sri Padmavati	Fluid Dynamics	1
2.	Saroj Panigrahi	Ordinary Differential Equations	1

SCHOOL OF COMPUTER INFORMATION SCIENCES

The School of Computer and Information Sciences (SCIS) epitomizes excellence in all the major functions associated with higher learning such as teaching, research, student development and curriculum planning. The strengths of the School are its quality faculty, innovative and flexible curricula with their unique focus on post-graduate education, state-of-the-art research with a remarkably high number of PhD scholars – both ongoing and recently graduated, and highly open and transparent policies that foster a healthy student-faculty interaction. SCIS always stood for innovation and leadership in curriculum planning – having one of the oldest (from 1983) and even now one of the best MCA programmes; boldly proposing and introducing the M.Tech programme in Artificial Intelligence as early as in 1986 to attract the small but growing number of undergraduates in computer science; and, in 2002, introducing the unique M.Tech in Information Technology (with specialization in Banking Technology and Information Security) in collaboration with IDRBT (Institute for Development and Research in Banking Technology, a sister Institute of RBI) aimed at bridging the shortfall of trained computer professionals in banking and finance industries. In 2014, the School has started a 5-year Integrated M.Tech (CS) programme to admit students immediately after Class XII. Last year we have started an M.Tech (IS) programme in Information Security in collaboration with CR Rao Advanced Institute of Mathematics, Statistics and Computer Science.

The current research areas in the School include Artificial Intelligence, Machine Learning (and Deep Learning), Image Processing, Computer Vision, Pattern Recognition, Natural Language Engineering, Machine Translation, Networks, Computer and Network Security, Information Security, Software Engineering, Logic, Data Mining, Wireless Sensor Networks, Heuristics and Metaheuristics, Cryptology, Parallel, Grid and Cloud Computing, and Speech Processing.

Funding for the School

The School has been recognized by several funding agencies. The Department of Science and Technology (DST), Government of India has recognized the research contributions of the School by funding it under FIST and PURSE programmes. The School also received funding from industry. With the university recognized as an Institute of Eminence (IoE) recently, the School planned several innovative activities with the generous grants under the scheme.

Research Projects

The School currently executes several research projects (funded by MeitY, UGC, ISRO, DRDO, DLRL, MHA, DST, INCOIS etc.) on FAE, Content-Based Image Retrieval, Speech and Natural Language Processing, Grid Computing, Cryptography, Neural Networks, Formal Methods in Software Engineering, Business Process Re-engineering, Forensic Document Analysis, System Security, Wireless Sensor Networks, Manufacturing and Logistics, Grid Middleware etc.

Student Funding

Students of the School have the facility of getting funding under faculty research projects and funding from other sources such as the UPE2/PURSE funding that the university/School gets from UGC/DST etc. This is open to Ph.D./Integrated M.Tech./MCA students. M.Tech.

(CS/AI/IT/IS) students are all eligible for the GATE scholarships under AICTE funding. Ph.D. students are eligible for scholarships from the university for a period of 5 years.

Other Ph.D. Fellowships

IDRBT Fellowship: Currently the fellowship will carry monthly stipend of Rs.25,000 (for 1st and 2nd year) and Rs.28,000 (for 3rd, 4th and 5th years), subject to revision from time to time. The students will work full time at IDRBT. The breakup of these IDRBT PhD Fellowships will be as per reservations norms of GOI. The areas of research of the scholars need to be relevant to banking technology and information security. There will be joint guidance of IDRBT and SCIS (UoH), one guide from each.

Visvesvaraya PhD Fellowship: Further, details can be found at http://phd.medialabasia.in/ for fellowships for 2018-19, if available.

Industry, Academic and other Contacts

SCIS maintains active contact with both industry and research labs and participates in developing state-of-art computing systems. The School has initiated academic collaboration at an international level with University of Trento, Italy; Mahasarakham University, Thailand; Universite de Bretagne-Sud, Lorient, France; Griffith University, Brisbane, Queensland, Australia; Prof. C. R. Rao AIMSCS Institute; IDRBT, IIIT Hyderabad; ISI Calcutta and National University of Singapore. The School has MoUs for collaborative work with NISG (National Institute for Smart Government), Anna University, IBM (ISTL), Hitachi Consulting and Altair Engineering to promote research and teaching programmes in Business Process Re-engineering and Middleware Technology. The School offers elective courses in collaboration with Hitachi Consulting on Service-Oriented Architecture and with IBM ISL on Big Data and Virtualization. The School has conducted half-day and full-day workshops/technology days in collaboration with corporations such as J P Morgan Chase, Hitachi Consulting and IBM ISL

Placement

The School has a vibrant placement programme. The School attracts many product-oriented dream companies such as IBM, Teradata, GE, Cisco, Commvault, Cavium Networks, FreeScale, TeamFI, Honeywell, Oneconvergence, JPMC, HSBC, Works Apps, CA, Polaris, Imagination Technologies (HelloSoft), and other companies such as Broadridge, ADP, TCS, DST, Capgemini, Cordys, Intergraph, Aveva, Hitatchi consulting, Redpine.

Programmes of Study

The School offers Seven different programmes of study leading to: **Ph.D**. in Computer Science, 5-year **Integrated M.Tech.** in Computer Science, **M.Tech.** (Computer Science), **M.Tech.** (Artificial Intelligence), **M.Tech.** (Information Technology) with specialization in Banking Technology & Information Security, in collaboration with IDRBT, **MTech** (Information Security) in collaboration with CR Rao AIMSCS, and **M.C.A.** In addition, the school also contributes and supports the School of Physics, School of Life Sciences, 5-year Integrated M.A. and M.Sc. courses.

Ph.D.

The School has a very vibrant Ph.D programme with more than 60 registered students currently, both Indian and foreign nationals, as on date and more than 120 scholars have completed their PhD till now. As the School always has a high priority for research, it strongly encourages fresh and brilliant students to participate in the above exciting research programmes as full-time/part-time Ph.D. students. School further offers Visvesvarya PhD Fellowships (sponsored by DeitY) for supporting brilliant Ph.D. students. This is subject to sanction of the Govt. of India (Admission Notice will come as a separate advertisement). Further, details can be found at http://phd.medialabasia.in/. The School is also recognized as an AICTE Minor QIP Centre for Ph.D. Programme. For further details, please refer to QIP brochure available at http://qip.iitd.ac.in/qipadm2017/QIP_Brochure_Ph.D.pdf

The Ph.D. programme is offered on full time, part time and external registration basis as per the university regulations. Candidates who have the required qualifications and are doing teaching/research in recognized institutions or researchers from companies registered with STPI/NASSCOM/Central Government Organizations who operate within the jurisdiction of the University can apply for part time admission, which is available during 2021-22. Interested candidates are advised to study the areas of research from the School and faculty profiles. Please visit School website http://scis.uohyd.ac.in for details. Candidates interested in doing research in the following areas are strongly encouraged to apply.

- Machine Learning, rough sets and soft computing
- Data science, analytics and big data
- Cryptography and cybersecurity
- Social networks analysis and graph theoretic techniques
- Software defined networks and network security

Entrance Examination

Admission Process: Please refer to appropriate section in the prospectus about UGC Regulations 2016. Admission will be through a written test followed by an interview. The candidates who have been awarded JRF Fellowship after writing a National-level written test will be exempted from writing written test of the University and will be directly called for the Interview.

Written Test Format and Syllabus

The written test will consist of ***only objective type*** questions. 50% of questions shall be from Research Methodology and the other 50% shall pertain to the concerned subject. The paper shall have two parts, Part A and Part B. The following syllabus is proposed for the PhD entrance examination

PART A: Research Methodology:

- Quantitative Methods: Data preprocessing, graph plotting, plotting functions and data, statistical data analysis.
- Research: Technical Comprehension, Meaning, characteristics and types of research; Steps of research; Methods of research; Research Ethics.
- Aptitude and Reasoning: Reasoning, Logical Reasoning, Data Interpretation.

- Computer Applications: Flow Charts, Problem Solving.

PART B: Computer Science:

Computer Organization, Computer Programming, Discrete Mathematics, Data Structures, Algorithms, Operating Systems, Database Management Systems, Graph Theory, Computer Networks, and Automata.

The written test is for total of 70 marks and both Part A (35 questions) and Part B (35 questions) will have equal weightages.

Interview Process

Candidates must indicate their research interest at the time of the interview. ***All candidates must come prepared with a tentative research plan*** write-up of maximum 4 pages and are encouraged to submit details of research papers/technical reports (if any), they have authored.

Foreign candidates

Foreign nationals seeking admission in PhD programme should have the required basic qualifications. Candidates must demonstrate their ability to communicate in English. Following are the guidelines for admission to PhD:

Foreign students are required to submit past academic records, three reference letters, and a statement of purpose on the research topic of their interest. They must have good ability to communicate in English. In order to support the claim for admission into PhD, the following guidelines are stipulated:

- Students residing in India and who have taken prior qualifying education in India have to appear for the interview with all required supporting documents
- Both GRE and TOEFL/IELTS scores are to be submitted at the time of admission

Please also read section on Admission of Foreign Nationals in the prospectus.

5-year Integrated M.Tech. in Computer Science

The School has introduced a 5-year Integrated M.Tech. Programme in Computer Science with effect from the academic year 2014-15. The students will be awarded M.Tech (CS) degree at the end of five years. It is to be noted that there is no exit option. This programme is intended to provide` a high quality computer science education with a curriculum that is state-of-the-art. The School boasts of a very low student-teacher ratio that allows faculty to give individual attention to students.

Admission Process

The admission to 5-year Integrated M.Tech. in Computer Science will be done through JEE(Main) examination conducted in 2021 and the counselling for admission will be done by Joint Seat Allocation Authority (JOSAA)/Central Seat Allocation Board (CSAB).

Foreign candidates should clear SAT-I or ACT examination as a pre-requisite for admission to 5-year Integrated M.Tech. in Computer Science and may apply directly to office of International Affairs, University of Hyderabad. Please also read section on Admission of Foreign Nationals in the prospectus.

Master of Technology (M.Tech.)

This programme is meant for graduates in engineering disciplines and postgraduates in related sciences. Four different streams of M.Tech. are offered by the School – M.Tech(CS), M.Tech(AI), M.Tech(IT) with specialization in Banking Technology and Information Security and M.Tech(IS). Admissions are open for industry sponsored and foreign candidates. These are all supernumerary.

M.Tech. (Computer Science)

This programme offers core courses of computer science like Operating Systems, Computer Architecture, Algorithms, Software Engineering at an advanced level. Specialized electives of faculty research interest are offered as electives. Students can also specialize in "Systems", "Security" and "High Performance Computing" based on courses taken and the dissertation in these areas.

M.Tech. (Artificial Intelligence)

This programme is meant for students interested in specializing in artificial intelligence. Subjects include Knowledge Representation and Reasoning, Machine Learning, Natural Language Processing, etc.

M.Tech. (Information Technology)

With specialization in Banking Technology and Information Security, this programme aims at imparting in-depth knowledge and state-of-the-art expertise to the students through innovative learning supported by high calibre research and technology leadership to create a pool of responsible and resourceful IT professionals, in particular, for the banking and finance sector. This course is offered in collaboration with IDRBT, an RBI institute.

M.Tech. (Information Security)

Security now attracts great attention and this unique programme offers an in-depth exposure to this all important area. This programme is offered in collaboration with C R Rao Advanced Institute of Mathematics, Statistics and Computer Science, colocated on the university campus.

Admission Process:

General Admission Information for M.Tech. Programmes. Admission to programmes in Computer Science, Artificial Intelligence, and Information Technology and Information Security courses is through centralized counselling by CCMT (ccmt.nic.in) and is based on valid GATE scores in Computer Science and Information Technology only.

Sponsored candidates

Five sponsored seats are available for admission into each stream of M.Tech CS, AI, IT and IS. Sponsored candidates seeking admission in the M.Tech. (CS/AI/IT/IS) programmes are exempted from GATE qualification. Candidates with required basic qualifications would be selected through interviews. Employees with a minimum 2 years of work experience in IT companies registered with STPI or NASSCOM or Central Government Organizations can apply for M.Tech admission in CS/AI/IS. For M.Tech. (IT) those working in Banks/Financial institutions with a minimum of 3 years work experience will be considered. A candidate seeking admission in this category into M.Tech. (CS/AI/IT/IS) must submit (along with application) the organization's willingness to pay a sponsorship amount of One Lakh Rupees per candidate (one time) to the development fund of the School. After admission, candidates are required to pay the sponsorship amount and also the usual tuition, admission and other fees as prescribed by the University for other students from time to time. These candidates need to apply to the University as per the prescribed application form.

Foreign Candidates

Foreign nationals seeking admission to M.Tech. Programmes should have the required minimum qualification with background knowledge in Mathematics, Algorithms, Computer Programming etc. Candidates should have ability to communicate in English and should submit a supportive document with a good score in TOEFL/IELTS at the time of admission. In addition, students should submit a letter of reference which supports their claims to the background knowledge and ability to communicate in English. Please also read section on Admission of Foreign Nationals in the prospectus.

M.C.A. Programme

The MCA programme aims to prepare graduates in all the major areas of computer science, relevant aspects of mathematics and management so that they can take up both technical and managerial positions in industry. MCA students of earlier batches have been offered internships at companies such as IBM, GE, Microsoft, CA, CMC, Honeywell etc. and are thus provided an opportunity to learn in an industry environment during their last semester.

Note: According to AICTE the duration of MCA program is 2-year programme since academic year 2020-21 and there will be changes in the programme as a result. These will be announced on the university website and school website as and when the official communication is received by the university. Students applying for MCA programme this year are strongly advised to visit the school and university websites frequently for any updates before applying. However, the admission process remains the same as in the previous years.

Admission Process:

MCA admissions are done based on the scores obtained in **NIMCET (National Institute of Technology Master of Computer Applications Common Entrance Test) 2021** only. **NIMCET 2021 scores, in order of merit, will be the basis for admission which is done by the counselling at the University of Hyderabad. Interested candidates need to apply to the University of Hyderabad and separately need to provide their NIMCET 2021 scores (when available) as per the information provided by Controller of Examination, University of Hyderabad. This year NIMCET is being conducted by NIT Raipur and the candidates are advised to visit NIMCET 2021 website for details.**

Foreign candidates:

Foreign nationals seeking admission to MCA programme should have the required minimum qualification. Candidates should have ability to communicate in English and should submit a supportive document with a good score in TOEFL/IELTS at the time of admission. **Please also read section on Admission of Foreign Nationals in the prospectus.**

General Information for admitted candidates:

The admitted candidates have to report to the School on the day of commencement of the semester. All first year students of all programmes – Ph.D., Integrated M.Tech, M.Tech (CS/AI/IT/IS) and MCA – will have orientation programmes on the first day of the semester to introduce them to the School faculty and be appraised of the academic procedures. The first year M.Tech. (CS/AI/IT/IS) students will have an elective orientation programme along with second and third year MCA students in the afternoon of the first day of the semester. M.Tech. students are **strongly encouraged** to attend the elective orientation as it helps them in choosing the electives. The elective registration will happen during the first week of the semester. Elective registration is done in descending order of GATE scores and according to the limits per stream for each elective course. Students who are not physically present for the elective registration will lose the opportunity to choose electives as per their interest if these seats are filled up.

Pre-Ph.D. course work for registration to Ph.D. programme:

The candidates admitted to Ph.D. programme in the School will be governed by the following rules:

1. All candidates admitted to Ph.D. in the School, whether full time, part time or external, are required to complete the course work. Initial admission is provisional and subject to candidate passing the course work. In case a candidate is unable to pass the course work within one year, his/her admission stands automatically cancelled.
2. The course work will consist of four papers - Research Methods in Computer Science, Data Structures and Programming, and Ethics are core courses. In addition, there will be an elective course. The elective papers will be decided by the Research Advisory Committees of the candidates concerned.
3. Candidates are advised to take all the four courses in the first semester itself. Any exceptions will be decided by the Research Advisory Committees of the candidates concerned.
4. On successful completion of all the four papers, the candidate will be allowed to continue his/her research work towards Ph.D.

Candidates are requested to refer to appropriate section in the prospectus about UGC Regulations 2016.

M.Tech (CS/AI/IT/IS) and 5-year Integrated M.Tech.

A dissertation work is done by the students starting from the 3rd semester for M.Tech (CS/AI/IT/IS) students and 9th semester for Integrated M.Tech students. The students have the option of doing part of their dissertation work in an external institution (academic or corporate) of high repute – both national and international – where the School has an ongoing collaboration. However, the final decision on being permitted to do part of the dissertation in an external institution is at the discretion of the project supervisor of the student concerned. Internship through placement is not considered part of the dissertation.

Internship

Short-term internships, especially during summer vacation times, are encouraged for all students by the School.

For further information visit: http://scis.uohyd.ac.in

Faculty

Senior Professors

Arun Agarwal, Ph.D. (I.I.T Delhi), B.Tech. (I.I.T Delhi), SMIEEE, FIETE, FAPAS - Image Processing, Computer Vision, Pattern Recognition and Neural Networks, Grid Computing. (Vice-Chancellor)

C. Raghavendra Rao, Ph.D. (Osmania) - Simulation & Modeling, Knowledge Discovery, Computational Intelligence.

Professors

Hrushikesha Mohanty, Ph.D. (I.I.T. Kharagpur) - Distributed Computing, Software Engineering, Computational Social Science. (On leave)

K.Narayana Murthy, Ph.D. (Hyderabad) - Natural Language Engineering

Chakravarthy Bhagvati, Ph.D. (RPI, USA) - Image Processing, Computer Vision, Deep Learning (Dean of the School).

Atul Negi, Ph.D. (Hyderabad), M.S. (I.I.Sc., Bangalore) - Pattern Recognition and its Applications, Computational Intelligence, Technology Enhanced Learning

Siba Kumar Udgata, Ph.D. (Berhampur) - Mobile Computing, Networks and Architecture.

Rajeev Wankar, Ph.D. (DAVV, Indore) – Parallel Computing, Grid Computing, Analysis of Algorithms

Alok Singh, D.Phil. (Allahabad) - Combinatorial Optimization using Heuristic & Metaheuristic techniques.

Vineet C. P. Nair, Ph.D. (Griffith University, Australia) - Knowledge Representation and Reasoning, Multi-Agent Systems, Logics in Artificial Intelligence.

S. Durga Bhavani, Ph.D. (Hyderabad) - Analysis of Algorithms, Fractal Geometry, Mathematical Modeling, Social Network Analysis, Algorithms in Bioinformatics, Analysis of Algorithms.

V.Ch.Venkaiah, Ph.D. (I.I.Sc., Bangalore) – Discrete Mathematics, Algorithms, Cryptography

Salman Abdul Moiz, Ph.D. (Osmania) – Distributed Computing, Software Engineering, Disaster Recovery

Associate Professors

T. Sobha Rani, Ph.D. (Hyderabad) - Bioinformatics, Machine Learning Techniques, Advanced Data Structures

K. Swarupa Rani, Ph.D. (Acharya Nagarjuna), Data Mining, Time-Variant Databases, Machine Learning

Digambar Povar, Ph.D. (BITS, Pilani), M.Tech. (NIT Warangal), B.Tech. (Andhra University) – Digital Forensics, Cloud Computing, Cyber Security

Nagender Kumar Suryadevara Ph.D. (Massey University, New Zealand)-Wireless Sensor Networks, Internet of Things and Real-Time Data Mining.

Y.V. Subba Rao, Ph.D. (Hyderabad) - Cryptography, Theory of Computation, DBMS, Data Forensics

P S V S Sai Prasad, Ph.D. (Hyderabad) - Data Mining, Rough Sets, Big Data Analytics- Data Mining, Rough Sets.

N. Rukma Rekha, Ph.D. (Andhra U.) - Object Oriented Analysis and Design, UML, Cryptography, Pervasive Computing, Software Engineering

Satish N. Srirama, Ph. D. (RWTH Aachen University, Germany) - Cloud Computing, Mobile Web Services, Mobile Cloud, Internet of Things, Fog Computing, Large-scale data analytics on the Cloud.

Assistant Professors

Wilson Naik, M.Tech. (JNTU Hyderabad) - Network Forensics, Systems Security, Networking

P. Anupama, Ph.D. (Hyderabad), M.S. (UMBC, USA) - Networking, Operating Systems and Graph Mathematical Morphology.

M. Nagamani, M.Tech. (JNTU, Hyderabad) - Speech Processing, Information Retrieval, Intelligent tutoring system, Cognitive psychology, Embedded Systems

Rajendra Prasad Lal, Ph.D. (Utkal) - Graph Algorithms, Mathematical Programming, Computational Geometry.

Anjeneya Swami Kare, M.Tech. (IIT Kanpur), Ph.D.(IIT Hyderabad) - Graph Theory, Algorithms, Data Structures, Theory of Computation.

Nekuri Naveen, Ph.D. (Hyderabad), M. Tech (SE), B.Tech. (CSIT), – Data Mining, Neural Networks, Optimization

Md. Abdul Saifulla, Ph.D. (Anna), M.S. (IIT Madras) – Computer Networks, Algorithms

Avatharam Ganivada, Ph.D. (Calcutta), M.Tech. (Andhra), M.Tech. (University of Mysore) – Machine Learning, Softcomputing

Faculty of IDRBT

Professors

V.N. Sastry, Ph.D. (IIT Kharagpur) – Optimization Techniques, Fuzzy Control, Mobile Payments Security, m-Governance, ALM, Portfolio& Network Optimization

Vadlamani Ravi, Ph.D. (Osmania), RWTH Aachen, Germany – Data Mining, Text Mining, Big Data Analytics, Soft Computing, Neuro/Fuzzy/Evolutionary Computing and applications.

B.M. Mehtre, Ph.D. (IIT Kharagpur) – Cyber Security, Digital Forensics, and Biometrics

Associate Professors

M.V.N.K. Prasad, Ph.D. (B.H.U.) - Image Processing, Security and Biometrics

G. R. Gangadharan, Ph.D. (University of Trento, Italy) – Cloud Computing, Web Services, Green IT.
N. P. Dhavale, FPM (IIM Calcutta) - Payment Systems, IT Infrastructure

Assistant Professors

V. Radha, Ph.D. (Hyderabad) – Cloud Computing, Security, Networks, Web Services
Rajarshi Pal, Ph.D. (IIT Kharagpur) – Image Processing, Cyber Security.
N.V. Narendra Kumar, Ph.D. (TIFR) - Design, Modelling, Security Analysis of Systems including Operating Systems, Payment Protocols and Mobile Apps
P. Shyam Kumar, Ph.D. (Pondicherry) - Cloud Computing, Virtualization, Cryptography, Internet of Things, Big Data, Internet Technologies & Compiler Design.
Nagesh B. Sristy, Ph.D. (NIT Warangal) - Machine Learning, Data Mining, Big Data Analytics, Text Analytics, Database Systems, Distributed Systems
Abhishek Thakur, Ph. D. (BITS-Pilani), M.S. (Capella University, Minneapolis, USA) B.E. (Roorkee).

Faculty of CR Rao AIMSCS

Dr Ashutosh Saxena

Sirisha Velampalli, Ph.D. (Computer Science, JNTU Kakinada) - BigData, Software Engineering, Mathematical Modeling
Pradeepthi KV Ph.D. (Computer Science, Anna) - Cyber Security, Machine Learning, Computer Networks
Padmavathi G Ph.D (Mathematics, JNTU Hyderabad), Cryptography and Cryptanalysis
Appal T Naidu, Ph.D. (Computer Science, JNTU, Hyderabad) – Discrete Mathematics, Algorithms, Cryptography
Priyanka Mekala Ph.D. (Electronics Communications, Florida International University USA), VLSI, Embedded system.
Ashutosh Saxena Ph.D. (Computer Science, DAVV Indore), PDF (QUT Australia) - Information Security, Cryptography

Assistant Professors

Dr Pradeepthi K V, Ph D (CSE)
Dr Sirisha V, Ph D (CSE)
Dr G Padmavathi G,
Dr M Priyanka Reddy

Visiting Professors

Dr. Rajkumar Buyya, University of Melbourne, Australia
Dr. Andre Rossi, Université d'Angers, France

SCHOOL OF PHYSICS

The School of Physics is a centre of excellence for multi- disciplinary and interfacial research and teaching in diverse fields that range from nano-sciences and cold atoms to cosmology, and from photonics, quantum field theory, spintronics, and particle physics to complex systems. The School has been selected by the UGC as a Centre for Advanced Study (CAS) Level II to strengthen its teaching and research programmes. It has obtained level II funding under the FIST scheme of DST in a nationwide competition. The DST has recognized the School as one of the five founding centres in the country for Theoretical Physics Seminar Circuit (TPSC). The School has been acknowledged as a 'Centre of Excellence' by the Third World Academy of Sciences, Trieste, Italy. It has won recognition by UGC to establish the Networking Resource Centre (NRC), which promotes various outreach programmes to upgrade teaching and research through interaction with researchers from colleges and educational institutions across the country. The faculty of the School have research collaborations with many institutions both in India and abroad, such as the ongoing ones with Fermilab, on neutrino experiments, and discussions with CERN for compact muon solenoid experiments.

The School of Physics has developed high-quality teaching programmes at the Integrated M.Sc., M.Sc., and Ph.D. levels with a student-teacher ratio that is favorable for individual attention.

The School offers active research programmes to train Ph.D. scholars and has gone on to achieving national and international recognition in areas that include condensed matter physics, high-energy physics (experiment and theory), quantum field theory, cosmology, gravity, nonlinear optics, quantum optics, laser physics, nanoscience, and electronics science. In particular the areas of research include critical phenomena, liquid crystals, thin films, ion beam physics, semiconductors, nanostructured materials, quantum dots, cold atoms, quantum field theory, heavy flavor phenomenology, gravitational waves, neutrino physics, experimental high energy physics, quantum computing, high Tc superconductivity, shape formation in metals and ceramics, magnetism, modern quantum optics, femtosecond laser experiments, ferroelectrics and microwave devices, experiments and computational studies on soft and active matter, biological matter and Photonic Crystals

Prof. Ashok Chatterjee is the Dean of the School.

Programmes of Study

The School offers **I.M.Sc. (Physics)**, **M.Sc. (Physics)**, and **Ph.D.** programmes.

I.M.Sc. (Physics) – a 5-year Integrated course: This programme is of five years (10 semesters) duration with an exit option in three years, with a B.Sc. degree. The Physics courses taken by the students in the first six semesters include Mechanics, Vibrations and Waves, Electricity, Magnetism and Electromagnetic Theory, Properties of Matter, Kinetic Theory and Thermodynamics, Optics, Modern Physics and Atomic and Molecular Physics. In addition, the corresponding laboratory courses are also run during all the semesters to complement the

classroom teaching and strengthen the students' understanding and application. The teaching lays an emphasis on tutorials and problem-solving. In the subsequent four semesters, the I.M.Sc. student follows the course work offered in the standard M.Sc. programme.

M.Sc. (Physics) –The first three semesters cover the fundamentals of the subject. The courses taken by all the students include Classical Mechanics, Quantum Mechanics, Mathematical Methods, Electrodynamics, Statistical Mechanics, Introductory Particle Physics, Introductory Solid-State Physics, Introductory Optics and Laser Physics, Atomic and Molecular Physics, Computer Applications and Electronics. Besides ensuring a strong Physics foundation through class room teaching, laboratory courses in Electronics, Solid State Physics, Digital Electronics, Laser Physics, Microwaves, Modern Physics, Nuclear and Particle Physics are also a part of the curriculum. There is a strong emphasis on problem-solving and learning experimental techniques. In the fourth semester, the students choose electives from a wide range of specialization courses. There is also a project component in the course-work in third and fourth semesters. The students can choose to do their project with any faculty of the School. The course-work and the syllabi are however updated and modified on a regular basis to meet the demand of time.

Ph.D. (Physics): All students admitted into the Ph.D. programmes are required to undergo course work. Satisfactory completion of prescribed course work with at least 50% marks is a prerequisite for confirmation of Ph.D. registration. After the successful completion of the course-work, a Ph. D. student undertakes research work under the supervision of a faculty member, and on a topic approved by the School. The student is required to show satisfactory progress throughout the period of research and fulfill other requirements prescribed by the School. Such progress is monitored every semester by a Doctoral Research Committee (DRC). Apart from the course work, the Ph.D. requirements are the submission of research results in the form of a thesis and defense of the thesis in an open viva-voce examination.

Entrance Examination

M.Sc (Physics)

The entrance test for M.Sc. (Physics) will mainly be in Physics (Mechanics, General properties of matter, Heat and thermodynamics, Wave motion, Electricity and magnetism, Light, Modern physics, Electronics and Measurements) and Mathematics (Algebraic equations, Differential and Integral calculus including limits, Vectors, Matrices and Determinants, Elementary differential equations and Elementary functions and their graphs).

Ph.D (Physics)

Admission to Ph.D. in Physics is based on a written test and interview. The written test is compulsory for all students including those who have cleared UGC-CSIR NET, GATE, JEST or equivalent National level exams. Appropriate weightage for clearing the above-mentioned National-level exams will be given at the interview. Appropriate weightage will also be given for project / thesis work done at the Masters level either as a part of the curriculum or afterwards.

The framework for test and interview will be as per the UGC Regulations. A part of the test will be based on the standard M.Sc. syllabus of Indian Universities including:
Classical Mechanics, Relativity, Thermodynamics and Statistical Mechanics. Electromagnetic Theory, Quantum Mechanics, Modern Physics, Condensed Matter Physics, Nuclear and Particle Physics, Optics, Electronics, Mathematical Physics and Experimental Techniques.

The written test will consist of objective type questions. A part of the written exam will be on research methodology to assess the acumen of the student for research. This test is a qualifying one by UGC regulations. Those who qualify in the written exam will be called for an interview on the basis of their performance.

Requirement of Ph.D. Candidates by SOP Faculty
For the Monsoon Semester July 2021 Session

S.No	Supervisor	Requirement
1.	Prof. K. C. James Raju	2
2.	Prof. P. K. Suresh	1
3.	Prof.Suneel Singh	1
4.	Prof. Nirmal Kumar V.	2
5.	Prof. Surajit Dhara	3
6.	Prof.Sharat Ananthamurty	2
7.	Prof.V.Subrahmanyam	1
8.	Dr. Ashoka V. S.	1
9.	Dr. G.S.Vaitheeswaran	1
10.	Dr.P.Manimaran	2
11.	Dr.Soma Sanyal	1
12.	Dr. G. Venkataiah	1
13.	Dr. Barilang Mawlong	1
14.	Dr. N. Sri Ram Gopal	1
15.	Dr. Abhiram Soori	2
Total		22

Faculty

Senior Professors

Bindu A. Bambah, Ph.D. (Chicago, USA) –Quantum Field Theory, Neutrino Physics, Quantum Entanglement– Theoretical Physics, Experimental Neutrino Physics, High Energy Cosmology, Women in Science (T)

V. Seshu Bai, Ph.D. (I.I.T. Madras); (Retired)-- Condensed Matter Physics (E), Superconductivity, Intermetallics, Rapid Prototyping and Gel-casting of Ceramic & Metallic Components (E)

Ashok Chatterjee, Ph.D. (IACS, Jadavpur) – Condensed Matter Physics (T) – Low-dimensional Systems, Strongly Correlated Systems, Superconductivity (T) (Dean)

Professors

M. Sivakumar, Ph.D. (University of Madras) - Quantum Field Theory (T), General Relativity, Physics Education.

Guruswamy Rajaram Ph.D. (TIFR, Mumbai) - Micro-electronics, Device Fabrication (also in CASEST)

K. C. James Raju Ph.D. (IIT Madras) – Condensed Matter Physics, Ferroelectric and Magnetoelectric Thin Films, Microwave Electronics. Laser –Matter Interactions for material processing. (also in CASEST) (Head, CASEST)

M. Ghanashyam Krishna Ph.D. (I.I.Sc. Bengaluru) - Nanostructured Materials, Thin Films, Sensors and Devices. (also in CASEST)

P. K. Suresh, Ph.D. (CUSAT, Cochin) - Cosmology (T)

Suneel Singh, Ph.D. (UoH, Hyderabad) - Quantum Optics, Non-linear Optics (T)

Nirmal K. Viswanathan, Ph.D. (UoH, Hyderabad) – Singular Optics, Optical Angular Momentum, Spin-Orbit Interaction of Light and Near- Field Optics (E)

Rukmani Mohanta, Ph.D. (Utkal University) -High Energy Physics, Heavy Flavour Physics, Neutrino Physics (T)

S. Srinath. Ph.D. (UoH, Hyderabad) - Condensed Matter Physics, Magnetic nanostructures. Multilayers/thin films, Magnetic oxides, Multiferroics (E)

E. Harikumar, Ph.D. (UoH, Hyderabad) - Quantum Field Theory and Gravity (T)

Surajit Dhara, Ph.D. (RRI, Bangalore) – Soft Matter and Living Systems, Soft Matter Photonics (E & T)

Samrat L. Sabat Ph.D. (Berhampur) - Digital Signal Processing, Cognitive radio network, VLSI Signal Processing. (also in CASEST)

S. V. S. Nageswara Rao Ph.D. (UoH, Hyderabad) - Electronic Materials and Devices: Design, Fabrication, Ion beam studies, Radiation damage and Reliability studies. (also in CASEST)

B. V. R. Tata Ph.D. (University of Madras) - Soft Condensed Matter and Photonic Crystals (Experiments & Simulations)

Sharath Ananthamurthy, Ph.D. (The University of Iowa, USA) - Soft Condensed Matter, Biophysics, Optics, Laser Spectroscopy (E)

Vemuru Subrahmanyam, Ph.D. (TIFR, Bombay) – Theoretical Condensed Matter Physics, Strongly-correlated Systems, Quantum Entanglement and Information (T)

Associate Professor

Ashoka S. Vudayagiri, Ph.D. (UoH, Hyderabad) – Quantum Optics. Laser Cooling, Quantum Information, Ferrofluids (E)

G. Vaitheeswaran, - Ph.D. (Anna University, Madras), Solid state theory, Material science, Magnetism, Superconductivity, High Pressure Studies, elastic and mechanical properties investigated using first principles density functional calculations (DFT). (T).

P. Manimaran, Ph.D. (UoH, Hyderabad) - Computational Physics, Complex Systems, Network Science, Computational Biology (T).

P. Prem Kiran, Ph.D. (UoH, Hyderabad) Laser - matter interaction, Spatio-temporal evolution of laser induced plasmas and shock waves; Propagation of Ultra short, intense femtosecond pulses in transparent media; Nonlinear Optics; Laser Shock Peening (Experiment and Simulations).

Assistant Professors

Soma Sanyal, Ph.D. (IoP, Bhubaneswar) - Cosmology, Heavy-ion Collisions (T)

A. Rajani Kanth, Ph.D. (University of Tsukuba, NIMS - Japan) – Spintronic Devices (E)

Venkataiah Gorige, Ph.D. (Osmania University, Hyderabad) - Condensed Matter Physics, Magnetic Materials & Multiferroics, Electric field control of Magnetism (E)

Shyamal Biswas, Ph.D. (IACS, Kolkata) - Statistical & Condensed Matter Physics (T)

Barilang Mawlong, Ph.D. (UoH, Hyderabad) – Theoretical High Energy Physics (T)

N. Sri Ram Gopal, Ph.D. (Tulane University, USA) Ultrafast Spectroscopy, Laser Surface Patterning (E)

Jayeeta Lahiri, Ph.D. (University of South Florida, USA) – Experimental Condensed Matter Physics, Surface and Material Science (E). (On-lien)

Abhiram Soori, Ph.D. (Indian Institute of Science, Bengaluru) – Condensed Matter Physics (T)

Yalla Ramachandrarao, Ph.D. (University of Electro-Communications, Tokyo, Japan) - Quantum Optics, Cavity Quantum Electrodynamics, Nano-photonics, and Diamond Nano-photonics (E)

Emeritus Faculty/ Fellow/ Scientist

A. K. Bhatnagar, Ph.D. (Maryland, USA) - Materials Science (E), (NASI Honorary Scientist)

A. P. Pathak, Ph.D.(I.I.T. Kanpur), F.N.A.Sc .. F.lnst.P. (London), C.Phys. - Atomic Collisions in Solids, Radiation Damage, Surface Physics, Super lattices & Heterostructures (T & E), (NASI Senior Scientist Platinum Jubilee Fellowship)

S. N. Kaul, D.I.I.T., Ph.D. (I.I.T. Kharagpur), F.N.A., F.A.Sc., C.Phys., F.lnst. P (London) – Condensed Matter Physics, Phase Transitions. Magnetism, Critical and Re-entrant Phenomena (E) (INSA Honorary Scientist)

Honorary Professors

D. Narayana Rao, Ph.D. (I.I.T. Kanpur) - Non-linear Laser Spectroscopy (E)

S. Dutta Gupta, Ph.D. (Moscow, Russia) – Quantum Optics, Nonlinear Optics, Plasmonics, Nano Optics (T).

P. Anantha Lakshmi, Ph.D. (UoH, Hyderabad) – Quantum Optics, Cavity Optomechanics, Quantum Information (T).

Please visit http://sop.uohyd.ac.in/ for more details on faculty and their area of research.

Centre for Advanced Studies in Electronic Science & Technology (CASEST)

The Centre for Advanced Studies in Electronics Science and Technology (CASEST) is a successor to the DoE/UGC Electronics Programme initiated in 1995-96 to carry out research and teaching in Electronics Science. The Centre is supported by the UGC's Special Assistance under DRS-1. The Centre offers three programmes: Master of Technology in Integrated Circuits Technology [M.Tech. (ICT)], Master of Technology in Microelectronics & VLSI Design [M.Tech. (MVLSI)], and Ph.D. in Electronics Science and Engineering

M.Tech. (Integrated Circuits Technology): It is a two-year (4-semester) AICTE approved programme. The first two semesters are devoted to course-work, and the next two semesters are devoted to Master's thesis work. Students have the option to do their Master's thesis within the University or Industry or R & D Labs in relevant area. For all candidates carrying out thesis work in Industry or R&D Labs, there will be two supervisors: one from the respective Lab/Company and the other from CASEST, University of Hyderabad. Currently, the course work offered by CASEST covers theory and laboratory courses in Analog, Mixed-Signal, Digital, RF CMOS IC Design, Microwave-RFIC, MEMS and THz Technology, Semiconductor Devices and Microelectronics fabrication. The laboratory courses cover Design, Simulation, Fabrication, Testing and Validation of Devices and Integrated Circuits by using state-of-the art EDA Tools, Technologies and Techniques. Students will be exposed to cleanroom based device fabrication processes in the cleanroom available inside the University.

Admission:

M.Tech (Integrated Circuits Technology) Regular Mode (With valid GATE score: 18 Seats through Centralized Counseling for M.Tech Admissions: CCMT):

Admission in M.Tech IC Technology regular mode is based only on the GATE scores in the order of merit in one of the following: 1) Electronics and Communication Engineering, 2) Instrumentation Engineering and 3) Physics. There is no written test or interview for admission to this course.

The counseling for M.Tech IC Technology regular mode is through Centralized Counseling for M.Tech Admissions (CCMT). Therefore the eligibility is as per CCMT guidelines.

M.Tech. (Integrated Circuits Technology) Sponsored Mode (Without GATE Score: 12 Seats): In addition to regular mode, twelve seats are available for candidates with minimum three years of experience in Govt. R&D Labs/Public Sector Units/Publicly Listed Companies and sponsored by their parent organizations. When it comes to companies, the following companies only will be considered: (i) Listed company in any stock exchanges in India or (ii) Company with Corporate Social Responsibility (CSR) (Ministry of Corporate Affairs has notified Section 135 and Schedule VII of the Companies Act as well as the provisions of the Companies (Corporate Social Responsibility Policy) Rules, 2014 (CSR Rules) which has come into effect from 1 April 2014 and certain amendment in May 2016). Shortlisted candidates based on marks in the qualifying degree in the order of merit will be called for interview and the admission will be based on performance in the interview according to merit. The educational qualification requirements are same as regular mode M.Tech. (Integrated Circuits Technology) except for GATE score. The sponsored applicants have the option to do their one year M.Tech Thesis work in their respective Lab/Company. The duration for completing the course for sponsored candidates will be the same as for regular candidates. Eligible candidates who wish to apply under sponsored category need to send a hard copy of their application, (in addition to online application) with "SPONSORED CATEGORY – M.Tech (ICT)" clearly marked on the top of the first page of the application, along with the sponsorship certificate from the organization to The Controller of Examination, University of Hyderabad, Prof. C.R. Rao Road, Gachibowli, Hyderabad-500046 before the last date. The course fees for sponsored category is Rs.50,000/- (Fifty thousand rupees) per semester. Reservation policy as per the Govt of India rules will be applied.

The candidates admitted to this program (sponsored mode) are not entitled for any fellowship from AICTE/University even if they have a valid GATE score.

Master of Technology in Microelectronics & VLSI Design [M.Tech. (MVLSI)]

This programme is not offered during this academic year 2021-22 due to administrative reasons.

Ph.D. (Electronics Science and Engineering) (03 Seats): It is a research program covering areas such as Semiconductor Devices, Thin Film Devices, Tunable Microwave Devices, Sensors, Signal Processing etc,. The proposed intake is 03 (three) for the academic year 2020-21.

Admission to Ph.D program: The University will conduct a written examination, following the written examination; candidates will be shortlisted for interview based on merit in the written examination. The admission to selected students will be based on the combined performance in the written examination and interview according to merit. UGC/CSIR JRF qualified candidates are not exempted from the written test.

All admitted Ph.D students will have to successfully complete the course work as stipulated by the University of Hyderabad regulations. Further details are available at the following link http://casest.uohyd.ac.in

Break-up of weightages for Ph.D. interviews

Sl.No	Weightage being considered	Marks
1	Research Proposal and its defence	5
2	a. UGC/CSIR JRF OR b. UGC NET (Lectureship)	5 OR 3
3	Interview	20
	Total	30

Faculty

Professors

Guruswamy Rajaram Ph.D. (TIFR, Mumbai) Micro-electronics, Device Fabrication

K. C. James Raju Ph.D. (IIT Madras) **(Head)** Materials, Devices, Simulations and Measurement Techniques for Microwave frequency range, Ferroelectric Thin Films, Laser –Matter Interactions for material processing, Nano Electronics and Condensed Matter Physics.

M. Ghanashyam Krishna Ph.D. (I.I.Sc.) Nanostructured Materials, Thin Films, Sensors and Devices

Samrat L. Sabat Ph.D. (Berhampur) Digital Signal Processing, Cognitive radio network, VLSI Signal Processing

S. V. S. Nageswara Rao Ph.D. (University of Hyderabad) Electronic Materials and Devices: Design, Fabrication, Ion beam studies, Radiation damage and Reliability studies.

Associate Professor

VijayaSankara Rao Pasupureddi Ph.D. (IIT Kharagpur) Analog, RF and Mixed-Signal Integrated Circuits and Microsystems (on EoL).

Assistant Professors

Pratap Kollu Ph.D. (Chungnam National University, South Korea) Nanomagnetic sensors and materials, 2D Materials, Lab on-chip biosensors.

Bhawna Gomber, Ph.D (Saha Institute of Nuclear Physics) Experimental High energy physics, Trigger Electronics, Algorithm development and Signal processing.

Anjali Priya, Ph.D Motilal Nehru National Institute of Technology (MNNIT, Allahabad). Semiconductor Devices, VLSI and Analog Design, Nanoscale Device Modeling and Simulation.

Ph.D. vacancies and areas for supervision

Sl.No	Faculty name	Research area	Vacancies
1	Dr.P.Manimaran (School of Physics)	Biomedical signal processing / Image processing.	1
2.	Dr.Kollu Pratap	Thin Film Fluxgate Sensors	1
3.	Dr.Anjali Priya	Nanoscale design, modeling and simulation of semiconductor devices	1

Advanced Centre of Research in High Energy Materials (ACRHEM)

ACRHEM-Advanced Centre of Research in High Energy Materials, a DRDO Centre of excellence, came into existence with a memorandum of Collaboration (MOC) signed between Defence Research and Development Organization (DRDO) and University of Hyderabad (UoH) in March 2005. The major objective of the Centre is to develop new novel high energy materials (HEMs) for explosives and propellant application and development of explosive detection techniques using ultrafast laser-based spectroscopic techniques. The research at the Centre is interdisciplinary in nature, directed to develop deeper insights into the design of new energetic materials based on quantum chemistry principles, synthesis and development of new HEMs, development of energetic binders, oxidizers, nanomaterials and nanothermites, LASER based technologies for detection and discrimination of HEMS, LASER - mater interactions and theoretical studies on solid state properties of HEMs.

The chemistry research facilities are supported by four state of the art wet chemistry laboratories to deal with HEMs. The wet laboratories are developed with inputs from HEMRL (Pune) and VSSC (Trivandrum), the two leading laboratories working in the area of HEMs for a long time. About 30 chemistry researchers work full time for the Centre. The Centre has in-house facilities for characterization of intermediates and final products of chemical reactions and also to evaluate the sensitivity of newly developed HEMs. The characterization facilities include Liquid chromatograph coupled high resolution mass spectrometer (LC-HRMS), FTIR, UTM, Fluorimeter, DMA, TG-DTA, DSC, UV-Vis-NIR spectrophotometer, Combustion Calorimeter, Pycnometer, Viscometer, etc., and being augmented with solid state NMR, single crystal XRD, CHNS/O analyzer etc.

ACRHEM provides high-quality teaching with student-faculty ratio highly favorable for individual attention. The Centre has various ongoing research programmes both in experimental and theoretical fields to train Ph.D. scholars in fundamental as well as applied areas of Physics and Chemistry processes involved with HEMs. The following broad areas of research are being pursued at ACRHEM: Design of novel HEMs; Synthesis of novel HEMs; Synthesis of green oxidizers; Synthesis of energetic binders and plasticizers; Synthesis of nanomaterials and development of nanostructures; Development of nanothermites; Computational modelling of chemical kinetics of HEMs; Computational Physics,; THz generation/characterization and spectroscopy, Surface Plasmon characterization and applications; Laser induced shock wave generation and characterization; Numerical simulations of laser induced shock waves; Time and spatially resolved spectral analysis under extreme conditions; Development of instruments and technology to observe, measure, by ultrafast measurement techniques the processes involved in the HEM applications; Detection of energetic materials/explosives using LIBS, THz, Raman, CARS, SERS, Photoacoustic techniques; Polymer Sciences involving HEMs; Density functional study of HEMs involving electronic structure and mechanical property calculations; Modelling the physics of the release of energy by HEMs; Material Sciences of HEM;
More details can be found at www.acrhem.org.

ACRHEM faculty, scientists and students have accomplished several national and international honors such as Fellow of the Royal Society of Chemistry, UK; Fellow of the Institute of Physics, UK; Senior Members of the OSA, IEEE, SPIE; MRSI medal; B.M. Birla Science Prize; DAE Young Achiever award; NASI-SCOPUS young scientist award; Fellow of the Telangana Academy of Sciences; Dalmia-HEMCE award; Chancellor's award of the UoH; K.V. Rao Young Scientists etc.. The faculty of ACRHEM serve in the editorial boards of several reputed international journals such as Optics Letters (OSA), RSC Advances (RSC), Optoelectronic Advances (CLP), Frontiers (Optics & Photonics). Some of the Ph.D. students of ACRHEM have been placed in prestigious institutes abroad as post-docs and as faculty members in IIT Kanpur and NIT Kurukshetra.

Infrastructure

ACRHEM has state-of-the art laboratory facilities with advanced equipment required to carry out research in all the major areas of our expertise, in addition to being able to access other infrastructure from the University pool. More details of the facilities of the Centre are available on our website.

Computer & Library Facilities:

The Centre also possesses EXPLO5 ver. 6.03 Thermokinetic Code for Explosive/Combustion Property Calculations. Access to the University's CMSD / HPCF computer facility is additionally available for simulation work.
The Centre has a highly specialized library which houses books on a range of subjects relevant to the fields of research of its faculty and research scholars. In addition, access is available to a large number of books and journals through the University’s Indira Gandhi Memorial Library.

Faculty

Dr. V. Kameswara Rao, Ph.D. (IIT Madras-Chemistry) M.C.A (IGNOU, New Delhi).High Energy Materials, Gas Sensors, Biosensors, Nanomaterials, Adsorption Materials, Electrochemistry (Director)

Professors

Prof. S. Venugopal Rao, Ph.D. (Hyderabad) – Ultrafast Laser Spectroscopy, Ultrafast Ablation, Femtosecond Laser Induced Breakdown Spectroscopy, Laser Direct Writing, Surface Enhanced Raman Spectroscopy, Ultrafast Nonlinear Optics, Explosives Detection Techniques. (Experiment)

Prof. A.K. Chaudhary, Ph.D. (Burdwan) - Laser Spectroscopy and Nonlinear Optics. (Experiment)

Dr. G. Manoj Kumar, Ph.D. (Hyderabad) - Laser induced breakdown spectroscopy, Raman spectroscopy, Design and development of experimental methods for detection of hazardous materials, Multivariate statistical analysis of spectroscopy data. (Experiment)

Project Scientists

Dr. Sree Harsha Srikantaiah, PhD (Oklahoma State University, USA) Terahertz spectroscopy, Terahertz imaging, Terahertz waveguide sensors for explosives, Ultrafast laser pulse propagation and characterization, Ultrafast filamentation, Optical methods for Remote sensing. (Experiment)

Dr. Balaka Barkakaty, PhD (Okayama University, JAPAN) Polymers and Plasticizers – Synthesis and Applications, Green Chemistry, Development of Stimuli-Sensitive Smart Nano-Materials, Methods for development of environment friendly sustainable methods and materials through Chemistry. (Experiment)

Dr. Rajasekhar Koorella, Ph.D. (IICT, Hyderabad) - Synthetic Organic Chemistry, Asymmetric Synthesis, Synthesis of High Energy Materials, Development of novel synthetic methods. (Experiment)

Dr. N. Kishore Babu, Ph.D. (University of Hyderabad) Synthetic Organic Chemistry, Development of Novel Synthetic Methods - Organic Small Molecules, Rational Design and Synthesis of High Energy Materials, Synthesis of Precursors for Polymer Synthesis and Asymmetric Synthesis, (Experiment)

Associate Faculty

School of Chemistry

Prof. M. Durga Prasad, Ph.D. (Calcutta) Theoretical Chemistry: Quantum Dynamics and Many-Body Theories (Theory)

Prof. Tushar Jana, Ph.D. (Jadavpur) Polymer and Materials Science (Experiment)

Prof. P.K. Panda, Ph.D. (IISc., Bangalore) Synthesis and Exploration of chemical, biological and material aspects of porphyrinoids (Experiment)

Prof. A.K. Sahoo, Ph.D. (NCL, Pune) Organic synthesis and Organometallic chemistry. (Experiment)

Prof. K. Muralidharan, Ph.D. (IIT, Kanpur) Synthetic main group chemistry and polymers, Nano synthesis (Experiment)

School of Physics
Dr. P. Prem Kiran, Ph.D. (Hyderabad) - Laser - matter interaction, Spatio-temporal evolution of laser-induced shock waves; Propagation of Ultrashort, intense femtosecond pulses in transparent media; Nonlinear Optics. (Experiment and Numerical simulations)

Dr. G.S. Vaitheeswaran, Ph. D. (Anna University) Solid state theory, Material Science, Magnetism, Superconductivity, High-Pressure Studies, elastic and mechanical properties investigated using first-principles density functional calculations (DFT). (Theory)
Dr. A. Vudayagiri, Ph.D. (Hyderabad) Quantum Optics, Laser Cooling (Experiment).
Ph.D. Intake for the year 2021-2022 – NIL

Centre for Earth, Ocean and Atmospheric Sciences (CEOAS)

The Centre for Earth, Ocean and Atmospheric Sciences (CEOAS) was established (formerly as UCESS) at the University of Hyderabad (UoH) in February 2005 to conduct teaching programmes in the areas of Solid Earth, Ocean and Atmospheric Sciences, to carry out multidisciplinary research, and to understand the processes that connect all three components. The vision of the CEOAS is to become a global centre of excellence in Earth, Ocean and Atmospheric Sciences through innovative teaching and research to produce highly skilled manpower capable of addressing novel scientific and societal challenges. The Centre's focus is on advancement in understanding of Earth processes, resource exploration for future generations, natural hazards, extreme events in the context of global environmental and climate change. The research at this Centre encompasses dynamics and evolution of the Solid Earth, its natural resources, soils and water systems, environment, physics and dynamics of oceans and atmosphere, climate variability and global biodiversity. The Centre's mission is to provide a holistic understanding of planet Earth's dynamic processes, and linkages among the geosphere, the hydrosphere, the atmosphere and the biosphere through high quality teaching, so as to enable the students to become leaders in academic and research institutions, and professional organizations, to conduct innovative research in Earth Sciences, and to promote national and international collaborations, and to build world class infrastructure for teaching and edge-cutting research in Earth Sciences. Further, the curriculum and various courses at the CEOAS are designed in such a way as to train students to evolve into leading researchers in relevant professional organizations, government departments and industries, and also pioneer in the advancement of Earth Sciences knowledge in academia. We also teach a foundation course (Earth and its Interacting Components), which reaches hundreds of students, who are largely from non-geosciences

courses. This promotes a broader understanding of processes and critical issues linking the Solid-Earth, Oceans, Atmosphere, Hydrosphere and Biosphere, and their relevance for society.

Recently, the CEOAS has signed MoUs with the Indian National Centre for Ocean Information Sciences (INCOIS), CSIR – National Geophysical Research Institute (NGRI), Indian Institute of Tropical Meteorology (IITM), Pune, National Institute of Science Education and Research, (NISER), Bhubaneshwar, ISRO – Space Application Centre, and Finnish Meteorological Institute (FMI), Finland, for carrying research in mutually interested areas of Earth, Ocean and Atmospheric Sciences, and also utilizing the knowledge of scientists from the institutions for teaching in the university. Besides, the Centre also collaborates with several other reputed national and international academic and research institutions. The UGC has accorded recognition to the Centre, and granted faculty and research grants through their Innovative Research Programme. The Centre is currently in the path of expansion of its infrastructure facilities with funding from DST-PURSE, MoES, DST and DST-FIST.

Programmes of Study:

The Centre offers (i) **M.Sc. (2-year)** Programme in Ocean and Atmospheric Sciences, and (ii) **Integrated M.Sc. (5-year**) Programme in Applied Geology. The Centre also offers a **Ph.D.** Programme in Earth and allied subjects. All programmes ensure that the man power trained at the Centre has the knowledge and competence to carry our frontline research, and develop cutting-edge Earth Science technologies.

M. Sc. (2 Year) - Ocean and Atmospheric Sciences:

This is a four-semester programme open to candidates with a Bachelor's degree in any branch of science, who have studied both mathematics and physics as compulsory subjects, or B. Tech. degree in civil/mechanical/electrical branches. The admission is for both sponsored and non-sponsored candidates. Selection of candidates for admission will be based on their academic qualifications, written test marks and a personal interview. The enrolled students will also have to bear any and all costs towards oceanographic cruises (travel, accommodation, food, etc.), which will be conducted as a part of their curriculum during the second semester of the programme. The enrolled students must also get their passports ready by the middle of the first semester.

Total number of seats/intake is 10*. Both sponsored (sponsoring agency) and non-sponsored candidates will have to pay the fee as prescribed by the University.*

M. Sc. (5-year Integrated) - Applied Geology

This is a ten-semester programme open to candidates who have studied science subjects at 10+2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent) with a minimum of 60% marks. The first four semesters of Applied Geology course are common on par with other M.Sc. (5-year integrated programmes) courses. The course not only includes Mathematics as a subject, but

also involves significant applications of Mathematics. Therefore, students with Biology background at +2 stage, particularly if they had not studied mathematics after the 10^{th} class, are expected to put additional efforts to learn mathematics during the first two years of the course. The enrolled students will have to bear any and all costs towards any field work including travel, accommodation, food, etc, which will be conducted as a part of their curriculum during the programme.

The total number of seats/intake is 10.

Ph.D. in Earth, Ocean and Atmospheric Sciences:

The Centre offers a Ph.D. programme in Earth, Ocean and Atmospheric Sciences, remote sensing, environmental sciences, water resources and closely related areas of other branches of science. PhD seats are advertised as per the requirement and availability with a faculty of the Centre.

The following two major focused themes are identified for multidisciplinary research.

Solid Earth:
Structure, dynamics and evolution of Indian continental lithosphere through time; Archean magmatism, continental growth and tectonics; Geophysical exploration of mineral resources, development of modeling and inversion algorithms, hydrology, climate records, and natural hazards; Dynamics of oceanic lithosphere: Marine Geophysics, Tectonics, Plate Tectonics, Surface dynamics; High Resolution near Surface Geophysics/ hydrology/ tectonics and climate; Evolution of life through time.

Oceans and Atmosphere: Seamless dynamical climate prediction, and applications; past (Holocene) and future climate change simulations; tropical climate variability, air-sea-land interactions; scale interaction; dynamical localized extreme event prediction; Observational atmospheric physics; aerosol-cloud-monsoon interactions; modeling of climate; monitoring and modelling of the ocean circulation patterns and its effect on marine life; North Indian Ocean physics and dynamics; remote sensing of oceans and atmosphere.

Infrastructure:

The students would be utilizing well-developed state-of-the art facilities of the University of Hyderabad, National Geophysical Research Institute and Atomic Minerals Directorate for Exploration and Research, National Remote Sensing Centre, Indian National Centre for Ocean Information Services, India Meteorological Department Hyderabad, and other national facilities.

Field work
Students of Integrated MSc in Applied Geology will have to participate in 3-4 weeks geological and structural mapping programmes from 4th semester onwards. The enrolled students will abide costs towards any field work including travel, accommodation, food etc.

Oceanographic Cruise

Students of M.Sc. in Ocean and Atmospheric Sciences may undergo offshore cruise programme of 1-2 weeks duration to familiarize with ocean and atmospheric data acquisition, marine instrumentation, etc., under the supervision of experts from NIOT, NCAOR, INCOIS, NIO, etc., and/or University of Hyderabad. The enrolled students will have to bear any and all costs towards oceanographic cruises including travel, accommodation, food, medical examination, etc. All students MUST have their passports ready by the middle of the first semester to take part in oceanographic cruise immediately after first end-semester examinations. The students should follow all the safety protocols particularly those stipulated by the Centre and the agency which organizes the cruise.

Activities of the Centre

The activities of the Centre are integrated with the national and regional socio-economic development, with need-based interdisciplinary programmes, which benefit both the students and the society.

Projects

The Centre currently executes research projects in Solid Earth including origin of continents, rift initiation and evolution, lithospheric dynamics, resource exploration, crust-mantle evolution, water resources management, geophysical applications in crustal structure and environmental sciences, modelling and inversion techniques, ocean processes, ocean models and climate forecasts, paleoceanography and paleoclimate, Solid Earth dynamics. Several projects are funded by the CEFIPRA, UPE, DST, UGC, MoES, ISRO, NRB, PURSE grant, etc.

Outreach programmes

The Centre organizes outreach programmes in management of water resources, Geosciences for sustainable development in the context of global environment and climate change, reclamation and utilization of badlands, environmental management, etc. Geoscience education, popularization of Earth Sciences among school children and the general public.

Workshops/Training Programmes

Apart from 2-year M.Sc. and 5-year Integrated M.Sc. programmes, the Centre organizes workshops/training programmes in Earth, Ocean and Atmospheric Sciences and highly focused short-term refresher courses on enabling cadres to update their knowledge and skills and improve their employment opportunities. Most importantly, the programmes are designed to enhance competence to develop new-cutting edge technologies.

Entrance Examination

Ph.D. in Earth, Ocean and Atmospheric Sciences

Admission to the Ph.D. programme is based on a qualifying written test (weightage = 70%), followed by interview (weightage = 30%). The written entrance examination consists of two sections, PART A and PART B. PART A contains 35 Multiple Choice Questions (MCQ), and PART B

contains 35 MCQ. The questions will be covered from the following areas: Geology, Geophysics, Atmosphere and Ocean Sciences (M.Sc., level, PART B); and Research methodology, Quantitative methods, Data interpretation, Aptitude and logical reasoning (PART A). Selection of candidates for admission to PhD programme will be based on their academic qualification, written entrance examination and a personal interview.

Intake for the Ph.D. Course indicating the vacant slots of faculty along with areas for supervision (2020-21)

S.No	Name of the faculty	Designation	Areas for supervision (2020-21)	Ph.D. vacancies
1	Dr. K. Ashok	Professor	One position in Ocean/Atmospheric data assimilation. The students should have knowledge of tropical ocean and atmospheric dynamics, modelling and data assimilation, and statistics.	01
2	Dr. V. Chakravarthi	Professor	Joint inversion	01
3	Dr. S. Sri Lakshmi	Assistant Professor	Geophysics - Seismics and rock physics modelling	01
4	Dr. A. Ao	Assistant Professor	Metamorphic Petrology, Geochemistry	01
5	Dr. Vijay P. Kanawade	UGC-Assistant Professor	Aerosol and cloud physics	01
6	Dr. Devleena M. Tiwari	UGC-Assistant Professor	Paleoclimate Reconstructions, Source Rock Geology / Geochemistry	01

Weightage of Marks for PhD interviews:

S.No	Weightage being considered	Marks
1	CSIR/UGC JRF	5
2	Research Proposal and its importance in current research trends	10
3	Interview	15
	Total	30

Additional information:

The PhD seats falling vacant in July 2021 session will be filled in January 2022 Session

M.Sc. in Ocean and Atmospheric Sciences

The Entrance examination consists of Multiple Choice Questions (MCQ) in sections PART A and PART B. PART A consists of 25 Multiple Choice Questions (MCQ) and PART B contains 50 MCQ. The questions cover the following areas: Physics, Chemistry, Mathematics and Statistics (B.Sc. level). Selection of candidates for admission to MSc programme will be based on their academic qualification, written entrance examination and a personal interview.

Faculty

The Centre has accomplished faculty with several prestigious awards like Shanti Swarup Bhatnagar, JSPS Fellowship, J.C. Bose National Fellowship, National Science Academy Fellowships, National Mineral Award, National Geoscience Award etc.

Professors

Prof. K.S. Krishna – Marine geophysics, lithospheric dynamics, Tectonics and Plate Tectonics. (Head of the Department)

Prof. M. Jayananda - Solid earth geochemistry including radiogenic isotopes/ geochronology and early earth dynamics

Prof. K. Ashok –Tropical climate variability and change with focus on monsoons and Indo-Pacific; Seamless prediction and applications; Earth system modeling for studying past through future climate changes; predicting urban extreme weather; linear theory of weather processes.

Prof. V. Chakravarthi – Exploration Geophysics

Assistant Professors

Dr. S. Sri Lakshmi – Geophysics (Seismics and modelling)

Dr. Aliba Ao – Metamorphic Petrology and Geochemistry

Dr. Vijay P. Kanawade –Atmospheric and Climate Sciences with focus on aerosol microphysics, aerosol-cloud-radiation-climate interactions and urban air quality

Dr. Devleena Mani Tiwari – Biogeochemistry

Visiting Professor

Prof. A. C. Narayana– Geomorphology, Paleoclimatology and Remote Sensing

J.N Chair Professor

Dr. Prasanna Kumar – Physical Oceanography, Biogeochemistry

DST Inspire Faculty

Dr. Mohammad Ismaiel – Marine Geophysics, Mathematical Simulations and Modelling.

Ramanujan Fellow

Dr. Ritima Das - Seismology

Visiting Faculty

Prof. Nittala Sarma, formerly at Andhra University, Visakhapatnam

Dr. Y.V. Ramarao, (Retd.), Chief Scientist, IMD, Hyderabad

Prof. D.V. Bhaskara Rao, formerly at Andhra University, Visakhapatnam

Dr Yamuna Singh, formerly at AMD, Hyderabad

Dr. T.R.K. Chetty, formerly at CSIR-NGRI, Hyderabad

Dr. P. Francis, INCOIS, Hyderabad
Prof. G.V.R. Prasad, University of Delhi
Prof. S.K. Parcha, Wadia Institute of Himalayan Geology
Dr. P.S. Roy, Senior Fellow, Sustainable Landscapes and Restoration, WRI India
Dr. R.C. Prasad, IIIT Hyderabad

SCHOOL OF CHEMISTRY

The School of Chemistry has established itself as one of the leading centres in the country for education and research in chemical sciences. It offers fundamental and advanced courses covering a wide gamut of topics in Chemistry and closely related areas, and comprehensive research training to nurture future scientists, teachers, and technical professionals in the field
The School has made notable impact at the national and international levels in chemical research. It receives support from funding agencies like the Department of Science and Technology (DST), Science and Engineering Research Board (SERB) and the Council for Scientific and Industrial Research (CSIR), New Delhi, international collaborative projects and industrial projects. The School receives support from University Grants Commission (UGC), New Delhi under the Special Assistance Programme as a Centre for Advanced Studies (Phase III).

A Networking Resource Centre established in the School through dedicated funding from the UGC, operates various outreach programmes to promote chemical education and research at different levels -- undergraduate, postgraduate, doctoral and post-doctoral -- in colleges and Universities across the nation. Teachers and students visit the School for research projects, training programmes and workshops. The only UGC-NRC in Chemistry in the country, it is currently in Phase II.

Prof. K.C. Kumara Swamy is the Dean of the School.

Programmes of Study

The School admits students to the M.Sc. and Ph.D. programmes. The M.Sc. programme lasting four semesters comprises two foundation courses, 3 courses each in Organic, Inorganic, Physical and Theoretical Chemistry, 2 laboratory courses each in Organic, Inorganic and Physical Chemistry and elective courses. The syllabus lays emphasis on current developments in chemical science. Some unique features of the programme are special courses in Computer Applications, Symmetry and Mathematics, Materials Chemistry, Biological Chemistry and also project work and seminars by each student in Semester IV.

The School also participates in the M. Sc. (5-year Integrated) programme run by the College for Integrated Studies (CIS). The entrance examination for this programme is conducted by the CIS. The first two years of the programme are common to all science students; they get a thorough exposure to all branches of sciences. The students move to the School from the third year.

The Ph.D. programme is entirely research-oriented in which a student undertakes research under the guidance of a faculty member of the School in an area chosen by the student and approved by the School. Areas where research is being undertaken presently are listed in the School website. Students admitted to the Ph.D. programme carry out course work suited to their academic background and tailored to the demands of their research.

Entrance Examination

M.Sc. (Chemistry)

Admission to the M.Sc. programme is based on the performance of the candidate in the written test. Candidates are expected to have a sound knowledge of B.Sc. level general chemistry and basic mathematics. The question paper consists of two parts: Part A (25 marks) and Part B (75 marks). The paper consists of multiple-choice questions and carries negative mark for wrong answers.

Ph.D. (Chemistry)

Admission to the Ph.D. programme is based on a qualifying written test (weightage = 70%), followed by interview (weightage = 30%). The question paper for the written test consists of two parts: Part A (35 marks) and Part B (35 marks); the total will be for 70 marks for final evaluation. Part A consists of 20 questions on research methodology. Part B contains 60 questions (20 each from Organic, Inorganic and Physical Chemistry) at the M.Sc. level, and the candidate is required to answer any 20 questions. All questions are of the multiple-choice type. Students who have qualified in the national level UGC-CSIR examination with a Junior Research Fellowship (JRF) can take exemption from taking the written test, in which case they will be allotted 52.5 marks towards the written test component; if the JRF holders take the written test and score higher, the latter will be considered for the final evaluation. Admission to the Ph.D. programme and assignment of supervisor for the selected Ph. D. students are done concurrently through a counselling session

Syllabus for the courses offered by our School:

See the website: http://chemistry.uohyd.ac.in/

Recognition

The faculty of the School have won recognition in the form of prestigious awards and fellowships of various academic bodies at the national and international levels. Our master's students do well in national level competitive examinations and several of them go on to pursue a research career. Many of our alumni occupy important positions in the academia and industry in India as well as abroad.

Infrastructure

The School is equipped with a wide range of sophisticated analytical equipment in keeping with the interdisciplinary nature of the subject today. A list of the major equipment can be accessed from the website.

Additionally, the resources at CMSD, ACRHEM, CIL, and Centre for Nanotechnology of the University are also available to the research groups in the School.

Faculty

Senior Professors

K. C. Kumara Swamy, Ph.D. (IISc, Bangalore) F.A.Sc., F.N.A.- Catalytic Organic Transformations, Organophosphorus Chemistry, Synthetic chemistry (Organic/ Inorganic)

T. P. Radhakrishnan, Ph.D. (Princeton) F.A.Sc., F.N.A.Sc., F.N.A. - Materials Chemistry

Ashwini Nangia, Ph.D. (Yale) F.A.Sc., F.N.A.Sc., F.N.A. – Supramolecular Chemistry, Crystal Engineering, Pharmaceutical Solids

Musti J. Swamy, Ph.D. (IISc, Bangalore) F.A.Sc., F.N.A.Sc. - Biophysical chemistry of membranes and proteins, glycobiology

Abani K. Bhuyan, Ph.D. (Univ. of Pennsylvania) - NMR Spectroscopy, Physics and Biology of Biological Molecules

Susanta Mahapatra, Ph.D. (IIT, Kanpur) F.A.Sc., F.N.A.Sc. - Theoretical Chemical Dynamics, Non-adiabatic Chemistry

Samudranil Pal, Ph.D. (Jadavpur) – Coordination and Organometallic Chemistry

Professors

M. Durga Prasad, Ph.D. (Calcutta) F.A.Sc. – Quantum Chemistry, Many Body Theories and Computational Chemistry

Samar Kumar Das, Ph.D. (IIT, Kanpur) F.A.Sc., F.N.A.Sc. - Functional Inorganic Materials

K. Lalitha Guruprasad, Ph.D. (Osmania) - Protein structure and function: Experimental and Computational

D. B. Ramachary, Ph.D. (IISc, Bangalore) F.A.Sc., F.N.A.Sc. - Synthetic Organic Chemistry, Engineering Asymmetric Organocatalysis, Theoretical Aspects of Organocatalysis and Engineering Multi-Catalysis Cascade (MCC) reactions

Tushar Jana, Ph.D. (IACS, Jadavpur) - Polymer Chemistry and Materials Science

R. Nagarajan, Ph.D. (Madras) - Heterocyclic chemistry and natural products synthesis

Pradeepta Kumar Panda, Ph.D. (IISc, Bangalore) - Bioinorganic, Bioorganic & Supramolecular Chemistry of Porphyrinoids, Porphyrinoids based Materials for Solar Cell & Near Infrared Diagnostics, High Energy Materials

R. Chandrasekar, Ph.D. (Max-Planck), F.A.Sc., FRSC - Nano-Photonic Organic Materials and Devices, Single-Particle Microscopy/Spectroscopy

R. Balamurugan, Ph.D. (IIT, Kanpur) - Development of organic compounds for material applications, Synthetic organic chemistry - transition metal and Brønsted acid catalysis, synthetic methodologies and strategies

Akhila Kumar Sahoo, Ph.D. (NCL, Pune) F.A.Sc., F.N.A.Sc., FRSC – Organic Chemistry, Invention of New Synthetic Methods, C-H Activation, Ynamides, Energy Materials, Organometallics
K. Muralidharan, Ph.D. (IIT, Kanpur) – Nanomaterials, Polymers, Catalysis, High-energy Materials
Viswanathan Baskar, Ph.D. (IIT, Kanpur) – Molecular Clusters & Magnetism
M. Sathiyendiran, Ph. D. (IIT, Bombay) - Organometallic Chemistry
Perali Ramu Sridhar, Ph.D. (IISc, Bangalore) - Synthetic Organic Chemistry, Total Synthesis of Natural Products and Carbohydrate Therapeutics, Glyco-Biology, Synthesis of Peptide Based Drugs and Carbohydrate Vaccines

Associate Professors

Debashis Barik, Ph.D. (IACS, Jadavpur) - Nonequilibrium Statistical Mechanics, Stochastic Processes in Physical and Biological Systems
Srinivasarao Yaragorla, Ph.D. (IICT, Hyderabad) -Organic Chemistry, Allenes, Propargylic systems, C-H functionalization, Annulations, Cascade-Cycloaddition reactions

Assistant Professors

Jovan Jose K V, Ph.D. (Pune) - Developing Methods for Theoretical Molecular Spectroscopy, Theoretical Organic Reaction Mechanisms, Ab Initio Crystal Structure Prediction, Theoretical Studies on Transition Metal Oxides and Sulphides, Folding Pathways Proteins and Computer Aided Drug Designing
Murali Banavoth, Ph.D. (IISc, Bangalore) - Solar Energy Materials and Solar Cells; Functional Materials for Nanoscience and Nanotechnology, Ultrafast Spectroscopy and Photophysics for Donor/Acceptor Interfaces in Solar Energy Materials
Manju Sharma, Ph.D. (IISc, Bangalore) - Computer simulations of soft condensed matter, Nucleation, Carbon capture, water purification
T. Saravanan, Ph.D. (IIT, Madras) - Bioorganic Chemistry, Photo-Biocatalysis, Enzyme Engineering and Chemoenzymatic Cascade Synthesis of Active Pharmaceutical Ingredients (API)

Retired and Re-employed Professor

Anunay Samanta, Ph.D. (Jadavpur) - F.A.Sc., F.N.A.Sc., F.N.A. - Excited state processes in molecules and materials

Emeritus Professors

M. Periasamy, Ph.D. (IISc, Bangalore), F.A.Sc., F.N.A. – Organic Molecules & Materials for Harvesting Ambient Solar Heat and Stored Solar Heat.
M.V. Rajasekharan, Ph.D. (IIT, Madras) – Coordination Networks, Polyiodides, Magnetic Exchange

INSA Senior Scientist

Kalidas Sen, Ph.D. (IIT, Kanpur), F.A.Sc., F.N.A. – Density Functional Theory, Confined Electronic Systems

Honorary Professor and INSA Senior Scientist

D. Basavaiah, Ph.D. (BHU) F.A.Sc., F.N.A. – Organic Chemistry: The Baylis Hillman Chemistry, Chiral Catalysis

University Distinguished Professor

Goverdhan Mehta, Ph.D. (Poona). FRS – Synthetic Organic Chemistry

SCHOOL OF LIFE SCIENCES

The School of Life Sciences has been established with an emphasis on interdisciplinary teaching and research leading to M.Sc. and Ph.D. Degrees in modern biology, biotechnology, bioinformatics and systems biology.

The School consists of five Departments:

1) Department of Biochemistry
2) Department of Plant Sciences
3) Department of Animal Biology
4) Department of Biotechnology and Bioinformatics
5) Department of Systems and Computational Biology

The details related to the eligibility for admission and mode of selection of the candidates for various academic programmes that includes the two-year M.Sc., M.Tech. and 5-Year Integrated Masters and doctoral programs offered in different disciplines, faculty, and their research specializations in the various departments can be seen as mentioned in their respective web pages maintained by the University of Hyderabad or as mentioned above.

The School of Life Sciences is committed towards achieving academic excellence in teaching and research in basic and applied areas. It is one of the most vibrant schools with a lot of academic and educational activities all through the year. The new building of School of Life Sciences, occupied in March 2013, is designed for housing a total number of 65 research laboratories, class-rooms, teaching laboratories, central instrumentation facilities, cell and microbial culture facilities, seminar halls and auditorium. Most of our faculty are well trained in some of the leading national and international laboratories before joining the University of Hyderabad and have won several national and international recognitions. A healthy competitive atmosphere among the academic programs and the faculty resulted in excellence in teaching and research. The faculty are engaged in research and consultancy activities in cutting edge areas of modern biology and biotechnology to answer some of the most challenging questions in biological systems and improve the well-being of humankind, with support from national and international funding agencies as well as biotech/ pharmaceutical industries. Recently, 'Bio-incubator Nurturing Entrepreneurship for Scaling Technologies' (BioNEST) facility was established by the University of Hyderabad on the third floor of the School of Life Sciences with the support from BIRAC of Department of Biotechnology for providing incubation facilities for innovative ideas of faculty and scholars where many of the faculty from the School of Life Sciences are actively involved.

The infrastructural facilities of the School have been established with the plan funds of the University Grants Commission (UGC), Department of Biotechnology (DBT), Department of Science and Technology (DST), New-Delhi as well as extra-mural funding attracted by the faculty of the School of Life Sciences. The University Grants Commission upgraded Phase III of UGC-Special Assistance, DSA programme (period 2002-2007) and sanctioned the status of Centre for

Advanced Studies (UGC-SAP-CAS-I) in School of Life Sciences for a period of five years (2008-2013). Now each of the Departments are supported by UGC-SAP-DRS1. School also received grants from UGC under University Potential for excellence (UPE Phase I and II) and from DST, New-Delhi under FIST (Funds for Improvement Science and Technology Infra Structure) program.

The facilities include seven state of the art teaching laboratories and centralized high end facilities such as Proteomics-MALDI/MS-MS/TOF-Q, Robotic Crystallization System, LC-MS and GC-MS for Metabolomic Research; Surface Plasmon Resonance, Confocal/Fluorescence Microscope, Super Resolution Microscope, Real-time PCR machine Microarray spotter/analyzer, Next generation sequencing system, Bioruptor, Electroporator, Luminometer, Nano-drop machine, HPLC, FPLC and AKTA PILOT, CD Spectrophotometer, Fluorescence spectrophotometer, Radioactivity facility, Chemidoc-imaging system, , Flow cytometry, Microtome/Ultramicrotome (Tissue sectioning), in vivo imaging for whole cell and animal imaging, Green house facility and Bio-safety Level three facility (BSL3). In addition, the School has access for infrastructural facilities set up at Nanotechnology Center, Centralized Instrumentation Laboratory (CIL) and Center for Modelling, Simulation and Design (CMSD), located within the campus which carry facilities such as Transmission Electron Microscope (TEM), Atomic Force Microscope (AFM) and high end computational facilities.

Several distinguished faculty and scientists have visited the School and lectured at the School of Life Sciences independently or in connection with a seminar/ conference and or under GIAN (Global Initiative on Academic Network) program that is supported by the Ministry of Human Resource and Development (MHRD). This year, Prof Erwin Neher, Nobel laureate in Physiology in Medicine for the year 1991, from Max Planck Institute, Gottingen Germany; Professor Bruce Michael Alberts, the past President of US National Academy of Sciences and Editor in Chief of Science Journal, and Prof. Martin Chalfie, from Columbia University who shared the 2008 Nobel prize in Chemistry, visited the School and delivered lectures. The School conducted several conferences during the year that include International Conference on Reproductive Biology and Comparative Endocrinology; European Union Sponsored Nano3Bio Final Dissemination meeting; International Conference on Biotechnological Aspects of Chitosan and Chitooligosaccharides & 6th Indian Chitin and Chitosan Society Symposium; 8th International Conference on "Photosynthesis and Hydrogen Energy Research for Sustainability – 2017, International Conference on Biology of Yeast and Filamentous Fungi, Science Communication Workshop by The Wellcome Trust/DBT Alliance, "International Conference on Innovations in Pharma and Biopharma Industry : Challenges and Opportunities for Academy and Industry (ICIPBI-2017), Work Shop on Data Science, BioQuest , a conference organized by the students and faculty of the School of Life Sciences, etc.

Many of our School faculty competed to obtain funding from the Ministry of Human Resource and Development under GIAN program and conducted the following courses and workshops on Protein Structure and Drug Discovery; Glycobiology: Role in Biology and Biomedical Relevance; Lipid Signaling in Health and Disease in Plants and Animals, Basics and Therapeutic Applications of Pluripotent Stem Cells Cancer Drug Discovery and Development; Immunologicals in Animal and Human Health; Transgenic Technology, Stem Cells and Regenerative Medicine, Ion Channels

and Human Diseases, Systems Biology for Drug Discovery and Personalized Medicine. The workshops and courses were taught by overseas experts coming from US, UK and Germany for a duration of 2-3 weeks to the benefit of our MSc students, research scholars and to people working in the Industry. Recently the School of Life Sciences has signed an MoU with Academia Scinica, Taiwan, for a sandwich Ph.D. program in the frontier areas of biology and with Cornell University for bilateral collaborations in research and development in Biology and Biotechnology.

Prof. S Dayananda, Department of Animal Biology is the Dean of the School.

Department of Biochemistry

Funded by DST-FIST and UGC-SAP-DRS programs the Department of Biochemistry is renowned for its teaching programs and cutting-edge research activities. The department offers M.Sc., PhD, and Integrated M.Sc.-PhD programs. The primary aim of these academic programs is to train students to ask important scientific questions as well as providing them with the wherewithal and knowledge for finding the relevant solutions to these problems. We lay special emphasis on analytical and critical thinking, knowledge creation and discovery. Focussed research programs in various fields of modern biology make the department a hub of basic fundamental research and an emerging epicentre for translation research. The research activities in the Department of Biochemistry revolve around the following broad areas: (i) Genome maintenance, organization and expression; (ii) Protein synthesis, homeostasis, structure-function correlation and engineering; (iii) Organelle biogenesis and trafficking of macromolecules; (iv) Intra-cellular communication, cancer biology and stem cell development; (v) Infectious diseases and host-pathogen interactions; (vi) Bioinformatics and computational biology and (vii) Natural and engineered biological sensors, cellular dynamics and imaging.

The students of the department have been achieving high consistently at all the national level examinations. The success rate of our students in the CSIR-UGC examination is between 33-50%. Upon completion of their M.Sc. degree the students are pursuing PhD at premier research institutions across the globe. Similarly the PhD students continue their academic pursuits in the leading research laboratories in the world as post-doctoral fellows. The research output and creativity of our students is a testament to the world class training provided by the department.

Programs of study:

M.Sc. Biochemistry:

This is a four-semester program based on choice based credits system. In addition to crediting several theoretical and laboratory based core courses, a student needs to choose from a wide variety of foundation courses and elective courses. The students also undertake an in-house research project in the final year.

Integrated MSc-Ph.D. Biochemistry and Molecular Biology:

The maximum duration of the program is 8 years (2 years M.Sc and 6 years Ph.D.) if a student continues to Ph.D. being eligible otherwise. During the initial 2 years, students will be involved in an extensive course work, which needs to be completed before continuation to the PhD stream. The course structure is similar but not identical to that of M. Sc. Biochemistry consisting of core courses, foundation courses and elective courses. Students who are unable to secure a minimum of 7.5 CGPA, but are able to pass the minimum prescribed course work, cannot continue for Ph.D., but are offered a path of exiting the course with a degree in M.Sc. Biochemistry and Molecular Biology. The students with an overall CGPA of 7.5 or higher during their 4 semesters of coursework and project may be promoted to PhD stream. They will carry out their work under the supervision of a faculty member and are advised by a doctoral committee. They are required to complete a program of PhD coursework in the first semester of Ph.D. They are also required to actively participate in journal club seminars, research work presentation etc. Publishing research articles in highly reputed journals is a requirement before submission of the thesis work.

Ph.D. Biochemistry:

The duration of the Ph. D. programme is as per the UGC Regulations, 2016. Students will carry out their work under the supervision of a faculty member and are advised by a doctoral committee. During the first semester students will be involved in course work for a total of 12 credits. The students also need to actively participate in journal club seminars, research work presentation etc. Publishing research articles in highly reputed journals is a requirement before submission of the thesis work.

Entrance Examination:

Admission to M.Sc. Biochemistry program:

Candidates who have passed B.Sc. with a minimum of 60% marks in aggregate of science subjects with Chemistry or Biochemistry as one of the subjects are eligible to apply for the admission to M.Sc. Biochemistry. However, the selection is based on their performance in the written examinations conducted at the National level. The paper consists of three parts: Part A, Part B and Part C. Part A consisting of 25 questions, Part B consisting of 45 questions and Part C 15 questions with multiple choices. Questions are drawn from various areas of Biology and Chemistry from the degree level. Part A marks will be taken into account to break the tie, if any, among candidates.

Admission to Integrated M. Sc.-Ph.D. Biochemistry and Molecular Biology program:

Candidates who have passed B.Sc. with a minimum of 60% marks in aggregate of Science subjects with Chemistry or Biochemistry as one of the subjects are eligible to apply for the admission to Integrated M.Sc.-PhD Biochemistry and Molecular Biology. However, the selection is based on their performance in the written examinations and an interview conducted by the department. The question paper for the written examination will consist of multiple-choice

questions from various areas of Biology and Chemistry from the degree level. The paper will test research aptitude as well as subject knowledge of the candidate. The paper consists of two parts with total marks of 70. Qualified candidates will be called for interview.

Admission to Ph.D. Biochemistry:

Students having a Master's degree in Biochemistry or in a closely related area, M.Sc. or M. Tech. in Bioinformatics, with at least 55% marks or an MBBS degree with a minimum of 55% marks are eligible to apply. In addition, Ph.D. admission in Biochemistry will be based on an entrance examination and interview conducted by the Department. The question paper of the entrance examination will consist of multiple-choice questions of M.Sc. standard drawn from different areas of Biochemistry and Life Sciences. The paper will test research aptitude as well as subject knowledge of the candidate. The paper consists of two parts with total marks of 70. Qualified candidates will be called for interview. JRF holders are exempted from taking the entrance test and will be given 35 marks for the test. However, they may write the exam if they wish and in that case the higher of the two scores will be considered. Unfilled seats would be filled in January 2022 session. However, depending on the requirement, this may be open to JRF holders only.

Faculty

Senior Professor:

N. Siva Kumar, Ph.D. (CFTRI) FAS-AP - Glycobiology, Protein biochemistry, Cell and Molecular Biology, Structure function relationships of plant, animal lectins and glycosidases. (Coordinator UGC-SAP-DRS-1)

Professors:

Krishnaveni Mishra, Ph.D. (CCMB) –Nuclear architecture in gene regulation, genome stability and inter-organellar communication. Protein SUMOylation in gene regulation and genome stability and anti-fungal target. (Head of the Department)

Naresh Babu V Sepuri, Ph.D. (UoH) – Mitochondrial redox homeostasis, the role of mitophagy and biogenesis in aging using animal, cell culture and yeast model systems.

Mrinal Kanti Bhattacharyya, Ph.D. (TIFR) – Biochemical, cellular and molecular basis of parasitism of human malarial parasite: Genome stability and organization; genetic and epigenetic control of virulence gene expression; telomere dynamics in gene silencing.

Sharmistha Banerjee, Ph.D. (CDFD) – Molecular pathogenesis and immunology of HIV, Mycobacterium tuberculosis (M.tb) and M.tb-HIV co-infection.

Gutti Ravi Kumar, Ph.D. - (IARI) - Stem Cell Biology, Developmental Biology, Signal transduction, Epigenetics, Gene Regulation, Apoptosis, Molecular and translational medicine.

Bramanandam Manavathi, Ph.D. (SKU) – Cancer Biology: Molecular basis of Tumor Heterogeneity and Metastasis.

Associate Professor:

Akash Gulyani, PhD (IISc, Bangalore) – Cellular dynamics and imaging, Biosensors for protein activity and cell signaling, fluorescent probes for mitochondrial activity and cell state, Natural light sensing and processing, photoreceptors, Eye-brain Regeneration

Assistant Professors

Seema Mishra,Ph.D (NII) Computational Biology and Systems Biology of diseases

Mohd. Akif, Ph.D. (CDFD) - Structural Biology, X-ray Crystallography. Structural and functional characterization of biologically important proteins

Santosh Kumar Padhi, Ph.D. (IIT-Madras), - Biocatalysis, Protein engineering, Enzymes for organic/asymmetric synthesis, Engineering enzymes for synthesis of pharmaceutical intermediates, lipid modification and industrial applications

P. Anil Kumar, Ph.D. (NIN) - Importance of nuclear transcriptional factors (HIF1, ZEB2, and WT1) in kidney disease development. Role of the embryonically active events in adult kidney disease. Characterization of obese mouse models to determine the critical role of metabolism in kidney disease.

Shashi Kiran, Ph.D. (CDFD) - Protein ubiqutination and deubiquitination in cellular processes and disease, HPV induced oncogenesis, post translational modifications in cellular activities.

BSR Fellow

K.V.A. Ramaiah, Ph.D. (JNU). FNASc, FAS-AP - Gene expression, protein synthesis regulation in eukaryotes, protein phosphorylation, protein and cellular homeostasis

Department of Plant Sciences

The Silver Jubilee Department of Plant Sciences has earned reputation in the country for imparting high quality teaching and research leading to the development of qualified professionals in the areas of Plant Sciences and Microbiology. The vision of the Department is discovering and exploiting plant and microbiological resources for the betterment of the environment and human welfare through systematic and focused research and teaching in frontier areas of plant and microbiological sciences. The foundations for the rapid growth of the Department in the last twenty-seven years have been laid with its philosophy to provide comprehensive training to equip graduate and doctoral students in modern-day, cutting edge tools and techniques in Plant Sciences and Microbiology to enable them to make the best career-oriented choices in both advanced teaching and high-quality research. The Department has been supported by the grant-in-aid received from major funding bodies, which include UGC-SAP (DRS-1, Phase 1) and DST-Funds for Infrastructure in Science and Technology (FIST) Level-II (Phase 2). The Department has set up state-of-the-art laboratories for M.Sc. teaching and Ph.D. programmes with the support from DBT, UGC, and DST to strengthen teaching and research activities.

The Department offers two programmes at the Masters level *i.e.,* Plant Biology and Biotechnology, and Molecular Microbiology, and two programmes at the Ph.D. level *i.e.,* Ph.D. Plant Sciences and Ph.D. Microbiology.

The research activities of the Department have been supported by several national and international funding agencies like DBT, MNES, CSIR, DST, INSA, UGC, NATP-ICAR, DAE, DOD, ICAR, MoES, Indo-UK, Indo-Israel, AP-Netherlands Biotechnology Programme, Humboldt Foundation, International Atomic Energy Agency, Rockefeller Foundation, Volkswagen Foundation, USDA, Indo-French Centre for Promotion of Advanced Research, the European Union, Third World Academy of Sciences, etc. either as individual research grants or collaborative research projects. The individual research laboratories are well equipped, apart from the availability of major equipment in the Department's central facilities, sister Departments in the School, common facilities of the School and at the Central Instrumentation Lab of the University. The Department has the distinction of establishing the state-of-art facility ‘'Repository of Tomato Genomics Resources,' which is a DBT Center of Excellence in "Genome Engineering of Tomato." The faculty members are highly competent and have made significant contributions in their subject areas. The Faculty members from the Department of Plant Sciences have a track record of consciously publishing in reputed peer-reviewed journals.

Programmes of Study

M.Sc. Plant Biology and Biotechnology

The programme comprises a four-semester study that is evaluated based on the credit system. A total of 17 core courses, 3 elective courses, 3 practical courses, and a research project (dissertation) are mandatory for successful completion of the programme of study. In addition to these courses, the students must take two foundation courses (6 credits) offered by various Departments/Schools under the University's choice-based credit system.

M.Sc. Molecular Microbiology

The Master's programme in Molecular Microbiology ensues the subjects covering all aspects of advanced Microbiology are offered in a four-semester programme, and the study is evaluated based on a credit system. A total of 17 core courses, 2 elective courses, 3 practical courses, and a research project (dissertation) are offered. In addition to these courses, the students need to take two foundation courses (6 credits) offered by various Departments/Schools under the University's choice-based credit system. The students who have met the requirement of completing the courses mentioned above are awarded the degree in the program.

Ph.D. Plant Sciences and Ph.D. Microbiology

The Ph.D. programme requires a minimum of three years pursuance from the date of admission. The Ph.D. students are involved in a course work comprising 12 hours credit load to strengthen their analytical skills in their research with a choice-based selection of teaching modules. The course work includes theory sessions in (i) Analytical Techniques (ii) Research Ethics, Data analysis, and Biostatistics offered by the four Departments of the School of Life Sciences. (iii) Research Proposal and Scientific Writing. The students should qualify for the Ph.D. course work as per UGC regulations.

The requirement for the award of Ph.D. includes the presentation of research work in the Plant Sciences Colloquium after 2-3 years and submission of a thesis on an approved topic of research under the guidance of a faculty member. The scholar's research progress will be assessed periodically by the doctoral committee members comprising of three faculty members, including the supervisor of the student as the chairperson of the committee. The scholar presents the research work in a comprehensive/open seminar before submitting the thesis and faces an oral examination in defence of the thesis. The candidate has to publish at least one research paper in a reputed national/international journal and presentation of the research work (oral/poster) in at least two national/international conferences for the award of Ph.D. degree as per UGC regulations.

Entrance Examination

M.Sc. Plant Biology and Biotechnology entrance examination question paper consists of 100 objective type questions of B.Sc. standard, and all are to be answered. Broadly, the question paper will consist of 40 questions in Botany, 20 questions each in Biochemistry/Chemistry, Microbiology, and Genetics. **Negative marking (0.33 marks for every wrong answer) is applicable for wrong answers.**

M.Sc. Molecular Microbiology entrance examination question paper consists of 100 objective type questions of B.Sc. standard, and all are to be answered. Broadly, the question paper will consist of 25 questions each in Botany, Zoology, Biochemistry/Chemistry, and Genetics/Microbiology. **Negative marking (0.33 marks for every wrong answer) is applicable for wrong answers.**

Ph.D. Plant Sciences and Ph.D. Microbiology admissions will be based on two separate entrance examinations and interviews conducted by the Department. The question papers will consist of objective type questions of 70 marks where 50% are based on research methodology and 50% are subject-specific (M.Sc. standard). The subject specific questions will be broadly from the areas of Plant Biology, General Biology, Microbiology, Molecular Biology, Genetics, and Biochemistry.

Candidates having Junior Research Fellowship (JRF) through qualification in national-level written examinations have a choice to directly appear for the interview. However, they have to apply to the University with their JRF Certificate. NET (LS) are not eligible to apply directly, and they have to appear entrance examination conducted by the University.

The candidates who have qualified University of Hyderabad Entrance examination and Junior Research Fellowship (e.g., CSIR/UGC/DBT/ICMR) holders appearing for the interview will be interviewed for 30 marks. The weightage given to the Junior Research Fellowship holders appearing for the interview directly without writing the University of Hyderabad entrance examination will be 35 marks as against candidates who write University of Hyderabad Entrance exam for 70 marks where the marks secured by them in the entrance examination will be considered. For those Junior Research Fellowship holders who also write the University of

Hyderabad entrance examination, the marks secured either in the University of Hyderabad entrance examination or the weightage given, *i.e.,* 35 for JRFs, whichever is higher, will be taken.

The Ph.D. admission for unfilled vacancies will be done in January session 2022 and is based on an interview to be conducted for Junior Research Fellowship (e.g., CSIR/UGC/DBT/ICMR) holders only through qualification in national level written examinations. The Department will not conduct any entrance examination for January session 2022. JRFs have to apply to the University with their Junior Research Fellowship (JRF) certificate to be called for the interview. NET (LS) are not eligible to apply.

Vacancies in Ph.D. Plant Sciences for 2021-22

Department of Plant Sciences			
Faculty	**Designation**	**Areas for Supervision (2021-2022)**	**Ph.D. Vacancies**
Dr. Ch. Venkata Ramana	Professor	Microbial Discoveries	1
Dr. S. Rajagopal	Professor	Plant Biochemistry and Biophysics	2
Dr. Ragiba Makandar	Professor	Plant-Microbe Interactions	1
Dr. Yelam Sreenivasulu	Professor	Plant Reproductive Biology	2
Dr. Y. Sreelakshmi	Associate Professor	Tomato Functional Genomics	1
Dr. Irfan Ahmad Ghazi	Assistant Professor	Functional Genomics and Biochemical Analysis of Rice Cultivars	2
Dr. M. Muthamilarasan	Assistant Professor	Molecular Genetics and Genomics of Millet Species	1

Vacancies in Ph.D. Microbiology for 2021-22

Department of Plant Sciences			
Faculty	**Designation**	**Areas for Supervision (2021-2022)**	**Ph.D. Vacancies**
Dr. Appa Rao Podile	Senior Professor	Plant-Microbe Interactions; Chitinases/Chitosanases and Plant Cell Wall Degrading Enzymes	1
Dr. Ch. Venkata Ramana	Professor	Microbial Discoveries	2
Dr. K. Gopinath	Associate Professor	Molecular Plant Virology	1

Infrastructural Facilities

The faculty and students of the Department have access to a range of sophisticated equipment supporting diverse research topics. These include Confocal Microscope, CD-Spectroscopy, Ultracentrifuges, High-Speed Centrifuge, Infra-Red Gas Analyzer, Atomic Absorption Spectrophotometer, HPTLC, HPLC, Lyophilizer, RT-PCR machine, UV-VIS-NIR Spectrophotometer, Liquid Scintillation Counter, Laser Scanner, Gel Documentation System, Transilluminators, Inverted Microscope, Electroporator, Internet, Greenhouse, and Plant Culture facility, Fluorescence Microscope, Imaging System/Microarray Reader, etc. Further, the facilities developed under UoH-DBT Centre for Teaching and Research in Biology and Biotechnology are also accessible.

School of Life Sciences facilities includes LC-MS, Preparative LC-MS, GC-MS, MALDI, Super-Resolution Microscopy, etc. University's Central facilities include Confocal Microscope, Scanning Electron Microscope, TEM, Peptide Sequencer, etc. In addition, the individual faculty members have their own well equipped laboratories, computers and access to the internet.

Faculty

Senior Professor

Appa Rao Podile, Ph.D. (Sardar Patel University) FNA, FASc, FNASc, FNAAS, FAS-TS, FPSI, FAMI, Formerly Tata Innovation Fellow (DBT), J.C. Bose Fellow (DST) --- Molecular Plant-Microbe Interactions, Chitinases/chitosanases and plant cell wall degrading enzymes

Professors

Ch. Venkata Ramana, Ph.D. (Osmania University), FNASc, DBT Tata Innovation Fellow --- Bacterial Discovery, Bacterial Physiology & Biochemistry, Metabolomics.

G. Padmaja, Ph.D. (Osmania University), FAS-TS --- Plant Genetics, Plant Tissue Culture, Plant Biotechnology. **(Head of the Department).**

Subramanyam Rajagopal, Ph.D. (Sri Venkateswara University), FNASc, FAS-TS --- Structural Biology, Protein Biochemistry, Proteomics - Protein Drug Interactions.

Sarada D. Tetali, Ph.D. (University of Hyderabad) --- Pharmacognosy, Medicinal Plant Metabolomics and Secondary Metabolism.

Ragiba Makandar, Ph.D. (IARI, Delhi) --- Plant Molecular Genetics, Plant-Microbe Interactions, Genetic Engineering & Functional Genomics.

Sreenivasulu Yelam, Ph.D. (Vikram University) --- Plant Reproductive Biology, Molecular Aspects of Gametophyte Development.

Associate Professors

Gopinath Kodetham, Ph.D. (Sri Venkateswara University) --- Molecular Plant Virology, Construction of PTGS Vectors & Cell Biology.

Santosh R. Kanade, Ph.D. (CSIR-CFTRI Mysore) --- Epigenetics & Cell Signalling.

Sreelakshmi Y, Ph.D. (University of Hyderabad) --- Tomato Functional Genomics, Proteomics, Plant Development.

Assistant Professors

Irfan Ahmad Ghazi, Ph.D. (Jamia Hamdard University) --- Rice Functional Genomics and Biological Properties of Rice Bran.

Rahul Kumar, Ph.D. (Delhi University) --- Functional Genomics, Hormone Signalling, Plant Biotechnology.

Jogi Madhuprakash, Ph.D. (University of Hyderabad) --- Biomass Degrading Microbes, Carbohydrate Active enzymes (CAZymes), Protein Engineering and Proteomics, Applied Enzymology.

M. Muthamilarasan, Ph.D. (NIPGR, Delhi) --- Plant Molecular Genetics and Genomics, Genome Informatics.

IoE Research Chair Professor

A.S. Raghavendra, Ph.D. (Sri Venkateswara University), FTWAS, FNA, FASc, FNASc, FNAAS --- Plant Biochemistry and Plant Molecular Physiology: Photosynthesis, Signal Transduction, Medicinal Plant Metabolomics.

Professors (Emeritus)

M. N. V. Prasad, Ph.D. (Lucknow University) --- Environmental Sciences, Phytotechnologies,

Attipalli R. Reddy, Ph.D. (Sri Venkateshwara University) --- Photosynthesis, Carbon Sequesteration in higher plants.

Professor (Honorary)

R.P. Sharma, Ph.D. (JNU) --- Plant Developmental Biology, Tomato Functional Genomics

Adjunct Professor

Dr. Manoj Prasad, Ph.D. (University of Calcutta), FNA, FNASc, FAAS --- Senior Scientist & JC Bose National Fellow, National Institute of Plant Genome Research, New Delhi - Molecular Genetics and Genomics of Tomato and Foxtail Millet.

Department of Animal Biology

The Department of Animal Biology, formerly known as the Department of Animal Sciences, was established in 1993, under the umbrella of the School of Life Sciences. The primary focus of the Department of Animal Biology is to impart knowledge in biomedical sciences at the highest level of excellence and to advance the frontiers of biology through innovative research programs. Since the inception, the Department has been rich in traditional biological sciences and at the same time continues to recognize the new developments in biological research. The Department had and continues to have an esteemed faculty with diverse cutting-edge research programs: Developmental Biology, Immunobiology, Reproductive Endocrinology, Neurobiology, Chronobiology, Cancer Biology, Infection Biology, Microbiology, Genetics, Chromatin dynamics and Systems Biology of the Cell. The broad base of faculty expertise combined with the state-of-the-art laboratories creates an environment that fosters innovation and advancement in science and technology.

The programs of study:

1. MSc Animal Biology and Biotechnology: The curriculum of the course has a mix of basic and modern aspects of Biology and Biotechnology. The four-semester program is comprised of core courses in the first two semesters followed by elective courses during the third and fourth semesters. The core courses offer an in-depth knowledge in Evolutionary Biology, Biochemistry, Microbiology, Cell Biology, Molecular Biology, Mammalian Physiology, Developmental Biology, Enzymology and Intermediary Metabolism, Genetics, Endocrinology and Reproductive Biology, Immunology, Stem Cell Biology and Transgenic Technology. The elective courses offered during third and fourth semesters include: Epigenetics & Nuclear Dynamics, Vaccinology, Infection Biology, Oxidative Stress and Antioxidants in Health and Disease, Aquaculture: Nutraceutical & Pharmaceutical Applications, Neurobiology, Cancer and Cancer Stem Cell Biology, Chronobiology, Signal Transduction, Gene Regulatory Networks, and Heterologous Gene Expression and Downstream Processing. The students are required to take a total of four elective courses with the freedom to opt for electives offered by the other departments. The Department of Animal Biology provides comprehensive practical courses that provides hands-on-experience in Molecular Biology, Microbial and Mammalian culture, and protein purification. During third and fourth semesters, the students pursue problem-oriented research work in individual faculty laboratories allotted to them at the end of 2nd Semester as part of early hand holding and providing them an opportunity to develop experimental skills. Thus, the MSc program provides the students not only broad range of areas of research, but also provides an opportunity to develop mastery skills on the frontiers of biological sciences.

2. Ph.D. in Animal Biology: The faculty members of the Department of Animal Biology play the active role of mentor by ensuring innovative research and training of Ph.D. students. Students are selected into the PhD program, based on their performance in the entrance examination followed by the interview. Admitted students are offered their choice of mentor to pursue their research interest. Only one written entrance examination will be conducted for intake of Ph.D. Students in July session. For remaining seats to be filled in Dec-Jan session, written entrance examination will not be conducted and only JRF Fellowships holders can apply for selection through interview only.

3. Integrated M.Sc. and Ph.D. in Animal Biology and Biotechnology:
The Department of Animal Biology offers students the opportunity to earn, in a continuous plan of study, both the M.Sc. and the Ph.D. through its accelerated programs. Following successful completion of the Master's program, the combined degree program enables qualified students join Ph.D program. This combined degree program allows students to initiate the research project towards their Ph.D. thesis while studying as a Master's student thus reducing the full-time study needed for the Ph.D. degree. The academic program leading to the Ph.D. degree involves completion of specified course work, which provides exposure to broad-range of research areas and techniques of traditional as well as modern biology and completion of a research project. The thesis shall be the report of original research work carried out during the tenure of the program.

The maximum duration of the program is 8 years (2 years M.Sc and 6 years Ph.D.) if a student continues to Ph.D. being eligible otherwise. During the initial 2 years, students will be involved in an extensive course work, which needs to be completed before continuation to the PhD stream. The course structure is same as that of M. Sc. Animal Biology and Biotechnology consisting of core courses, foundation courses and elective courses. Students who obtains <7.5 CGPA, but passed the minimum prescribed course work, should exit the course with a degree in M.Sc. Animal Biology and Biotechnology. The students with an overall CGPA 7.5 or higher obtained during their 4 semesters of the coursework and project may be promoted to PhD stream to carry out their work under the supervision of a faculty member and are advised by a doctoral committee. They have to go through a PhD coursework like other regular PhD students. They also need to actively participate in journal club seminars, research work presentation etc.

Admission process:

1. M. Sc. Animal Biology and Biotechnology: An entrance examination will be conducted for the selection of candidates to the program. The entrance examination consists of 100 compulsory objective questions of baccalaureate standard, covering all aspects of Zoology, Botany, Chemistry, Biochemistry, Microbiology, Genetics, Molecular Biology and Biotechnology. Those who qualify in the entrance are admitted into the program based on the merit list.

2. Ph.D. Animal Biology: An entrance examination will be conducted for the initial screening, which will be followed by an interview. Candidates qualified for JRF from CSIR-UGC/ICMR/DBT will be exempted from the written test and allowed to appear for the interview. The entrance examination consists of 70 compulsory objective questions of post-baccalaureate standard with emphasis in Animal Biology, Cell Biology, Molecular Biology, Microbiology, Genetics, Cancer biology, Immunology, Biochemistry, Physiology, Infection Biology, Neurobiology, Endocrinology, Reproductive Physiology, Developmental biology and Stem Cell Technology. Those who qualify in the entrance test are required to attend an interview. The merit list for admission will be prepared based on the marks obtained in the entrance test and the interview.

3. Integrated M.Sc.-Ph.D. in Animal Biology and Biotechnology: An entrance examination will be conducted for the selection of candidates to this combined degree program. The entrance examination consists of 70 compulsory objective questions of baccalaureate standard, covering all aspects of Zoology, Botany, Chemistry, Biochemistry, Microbiology, Genetics, Molecular Biology and Biotechnology, Research aptitude and Methodology. Those who qualify in the entrance test are required to attend an interview. The merit list for admission into the Integrated M.Sc. and Ph.D. will be prepared based on the marks obtained in the entrance test and the interview. However, the students will have the option of the 'Exit' after completion of four semesters. In such case, he/she will be awarded M.Sc. degree in Animal Biology and Biotechnology.

Infrastructural facilities:

State-of-art facilities are available for the students of the Department of Animal Biology. Specifically, the School of Life Sciences offers the following core facilities: Next Generation Sequencing (NGS) platforms, Flow Cytometry, Proteomics, Genomics and Metabolomics. In addition, core facilities include fish breeding, mosquito breeding, insect breeding and BSL3 pathogen containment facilities. Additionally, the School of Life Sciences offer 2D electrophoresis, MALDI-TOF/TOF and Q-TOF, Real-Time PCR, Chip maker, Spot picker, microarray set-up, metabolomics facilities for the analysis of small molecules, including LC-MS-MS. Other common facilities include High Speed Refrigerated Centrifuges, Ultra-Centrifuges, Spectro-fluorimeter, Spectro-photometers, Gel-Documentation System, Phosphor-Imager, HPLC, PCR Machine, Liquid Scintillation Counters, Luminometer, Oxygraph, Bioreactors, French press, Lyophilizers etc. The students also have access to Central Instrumentation Laboratory of the University, which contains amino acid analyzer, scanning electron microscope, transmission electron microscope (TEM), atomic force microscope (AFM), SPR spectrometer, Super-Resolution 3D Microscope system, Confocal microscopes etc. The entirety of the facilities is established through various national funding programs such as DST-FIST, DBT-CREBB and University Plan Grants. The members of the Department of Animal Biology are:

FACULTY:

Senior Professor(s)

1. S. Dayananda, Ph.D. (SVU), FNA, FASc, FNASc, FAP-AS – Bacterial small RNAs, post-transcriptional regulation, bacterial horizontal gene transfer, catabolomics, metabolic engineering, biotransformation and biodegradation.

Professors:

1. Manjula Sritharan, Ph.D. (University of Hull, UK), FT-AS – Infection biology, host-pathogen interactions – Iron acquisition by pathogenic mycobacteria and Leptospira spp. & evaluation of candidate markers as sero-diagnostic agents for tuberculosis & leptospirosis.

2. Balasubramanian Senthilkumaran, M. Phil, Ph.D. (BHU), FNA, FASc, FNASc, FAP-AS – Molecular Endocrinology, Developmental Biology, Reproductive Biology of fish, Molecular mechanisms of Sex Differentiation, Fish Neuroendocrinology, Endocrine Disruptors.

3. Jagan M. R. Pongubala, Ph.D. (University of Mumbai) – Systems Immunology, Stem cell biology, Gene expression and regulation.

4. Anita Jagota, Ph.D. (JNU), FTAS, FIAN – Neurobiology, Aging, Neurodegeneration and Brain-aging, Molecular Chronobiology .

5. Sreenivasulu Kurukuti, Ph.D. (BHU)– Signaling and epigenetic control of gene expression during animal development & disease. (Head)

6. Kota Arun Kumar, Ph.D. (UoH) – Genetic engineering of malaria parasite, Plasmodium interactions in mosquito and hepatocytes.

Associate Professors:

1. Suresh Yenugu Ph.D. (OU) – Reproductive immunology and toxicology, transgenic technology.

2. Nooruddin Khan, Ph.D. (Manipal University)- Immunobiology of infectious and metabolic diseases, Vaccine and adjuvant development.

Assistant Professors:

1. Radheshyam Maurya, Ph.D. (BHU) – Mechanism of Infection and Immunity in visceral leishmaniasis, Drug discovery and identification of new diagnostic markers.

2. Aruna Sree M.K, Ph.D. (UoH) - Epigenetics of development, differentiation and pathogenesis

3. Bindu Madhava Reddy Aramati, Ph.D. (UoH) - Cell signaling, gene regulation related to diabetes and cancer.

4. Raja Ram Mohan Roy, Ph.D. (UoH) – Cellular homeostasis, Inflammation and Tumorigenesis.

5. Prasad Tammineni, Ph.D. (UoH) – Molecular neurosciences, lysosomes, mitochondria, Autophagy and Alzheimers Disease.

UGC-FRP Faculty (Assistant Professor):

1. Parul Mishra, Ph.D. (CDRI-JNU) – Ubiquitin mediated protein degradation, Protein Engineering, Chaperone networks in neurological diseases and cancer.

Retired Professors (BSR Fellows):

1. P. Reddanna, Ph.D. (SVU) – Eicosanoids, Inflammation and Cancer.

Proposed students intake of the Department of Animal Biology for the academic year 2020-21:

Essential Qualifications:

S. No.	Name of the Course	Intake	Minimum Essential Qualifications
1.	M.Sc. (Animal Biology and Biotechnology)	23	B.Sc. with a minimum of 60% cumulative marks in the Science subjects.
2.	Ph. D. Animal Biology	5*	Master's degree in Animal Biology or in any area of Life Sciences/M.Tech. in Bioinformatics or Biotechnology, M.Pharm, or M.V.Sc. with at least 55% marks.
3.	Integrated M.Sc. -Ph.D. in Animal Biology and Biotechnology	06	B.Sc. with a minimum of 60% cumulative marks in all Science subjects.

Note:

* The intake for Ph.D. course indicated above is only for academic period 2021-22 and this intake cannot be considered as a benchmark for subsequent years.

Department of Biotechnology and Bioinformatics
(http://sls.uohyd.ac.in/new/departments.php?dept_id=4)

The Department offers application oriented, sought-after and cutting-edge courses in frontier areas of Biotechnology and Bioinformatics. Innovation based training is imparted to the students with a special emphasis on basic concepts of biological processes in order to pursue research in frontier areas of modern biology. A total of 12 independent research groups are active at the department studying molecular and cellular processes involved in cyanobacteria, yeast, higher plants, and human health and disease with an emphasis on discovery of interventional molecules and identification of targets with respect to malarial and leshmanial parasites, lepidopteran pest control, bacterial and viral infections, cancer and neurodegenerative diseases. Functional genomics, cellular biology, microbiology, protein biochemistry and structure-function studies, Drug Discovery, bioinformatics and computational biology constitute major skill domains of our research groups. In addition, the Department has an exclusive expertise in generation and analysis of high throughput genome sequence data of bacterial species and harnessing them towards discovery of new gene functions and pathways. Teaching and research programs of the department are supported by special grants from the DBT, DST, CSIR, ICMR and UGCtowards M.Sc., M.Tech., Ph.D. and Int-M.Sc. /Ph.D. courses. The faculty members at the Department are supported with several extramural grants and are recognised by national and international agencies. The Department actively participates in several student exchange and research training programs with international organizations such as German Research Foundation (DFG), European Commission, DAAD and Academia Sinica etc.

Infrastructural Facilities

The Department has been supported by the grant-in-aid received from major funding bodies which include UGC-SAP (DRS-1) and DST-Funds for Infrastructure in Science and Technology (FIST) Level-I. The Department has advance research facilities such as animal and plant cell culture, microbial culture, HIV culture, neuronal and neuroglial culture and stem cell culture, etc. Further, it has several essential instruments such as high-speed centrifuges, spectrophotometers, circular dichrometer, phosphorimager, PCR machines, FPLC, 2-D Electrophoresis, shakers, incubators, multimode plate reader, bioreactor, fluorescence microscope, real time PCR and flow cytometer, etc. The students can benefit from the state of art high resolution confocal microscopy facility and the genomic/proteomics/metabolomics/crystallization facility available in the School. The Bioinformatics infrastructure facility and library facility funded by the Department of Biotechnology; Government of India is a well-equipped facility that is used by the students. In addition, students also have access to high performance computing facility at Centre for Modelling, Simulation and Design for their project works.

Programs of Study

M.Sc. Biotechnology: This flagship course was introduced in the year 1990 under the nationwide post graduate program by the Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India. The program comprises of four-semesters with credit system of evaluation and latest curriculum recommended by DBT. Students can choose elective courses offered at Department/School level and the Foundation courses offered at University level. In addition to rigorous academic training, students interact with Biotech industries to avail opportunities for learning translational aspects of product development and commercialization. After successful completion of 2 semesters of coursework, students shall be assigned to the available project supervisors based on the criteria in practice or as decided by the admission committee/Department/School (please refer the admission criteria in 'Entrance Examination' section).

M. Tech. Bioinformatics: M.Tech. Bioinformatics is a state-of-art course approved by AICTE. The course is designed to train students in theory and computational techniques including hands-on practice using state of the art servers and computer labs equipped with different software packages. The program is truly interdisciplinary and is offered with the help of different collaborating entities/scientists and computer experts within and outside the University. Each year, some of the students obtain attractive placement opportunities from reputed software and bioinformatics companies. The courses spread over first two semesters include computer programming, proteomics, basic mathematics and statistics, molecular modelling, genomics, bioinformatics, molecular dynamics, drug design, machine learning and data analytics, mathematical modelling of biological systems and metagenomics etc. Students are encouraged to choose one elective course each in the first and second semesters either within the department or from the other Schools of the University. The students will carry out a full-time project work during their 3rd & 4th semesters under the guidance of a faculty member, either at the Department or elsewhere in a collaborative mode. After successful completion of 2 semesters of coursework, the students shall be assigned to the available project supervisors, based on the criteria in practice or as decided by the admission committee/Department/School.

Ph.D. Biotechnology: The duration of the Ph. D. programme is as per the UGC Regulations, 2016. Including essential Ph.D. course work component to assess for interdisciplinary skills and impart training in research methodology and ethics etc. Soon after admissions, the students are expected to begin their work under the supervision of a faculty member and are advised by the doctoral committee from time to time. They have to actively participate in Journal club seminars and research work presentation at the end of the semester. As per UGC guidelines PhD student have to publish at least one paper in peer reviewed journal and present their work in two conferences. The research students have to present their work in a comprehensive seminar before submission of their thesis. The students shall be assigned to the available research supervisors at the time of selection based on the criteria in practice or as decided/suggested by the admission committee/Department/ School.

Integrated MSc-PhD Biotechnology: The maximum duration of the program is 8 years (2 years M.Sc and 6 years Ph.D.) if a student continues to Ph.D. being eligible otherwise. During the initial 2 years, students will be involved in an extensive course work, which needs to be completed before continuation to the PhD stream. The course structure is similar to that of M.Sc. Biotechnology consisting of core courses, foundation courses and elective courses. At the end of 2nd semester, students shall be assigned to the available research supervisors based on the criteria in practice or as decided/suggested by the admission committee/ Department/School. After completion of fourth semester, students have the choice to exit with a M.Sc. Degree or continue for their Ph.D. program. Students are expected to exercise this option by the end of February during their fourth semester. Students who could not secure at least 7.5 CGPA, and could not secure at least B grade in each course, should exit the program compulsorily with a degree in M.Sc. Biotechnology. The students with an overall CGPA 7.5 or above obtained during their 4 semesters of the coursework and project will be allowed to continue to their PhD stream. They are also advised by a doctoral committee as described for regular PhD Biotechnology students. They also need to complete PhD course work in the first year of their PhD tenure as per UGC regulations and actively participate in journal club seminars, research work presentation etc. UGC regulations for awarding PhD will be followed after promoting the student from M.Sc to PhD program. (Relaxation for women candidates are as indicated in the UGC guidelines).

Entrance Examination

M. Sc. Biotechnology:

Selection for admission into this PG program is based on a national level common entrance examination in biotechnology, i.e., through Graduate Aptitude Test - Biotechnology (GAT-B) examination, conducted by RCB Faridabad, New Delhi. After announcement of GAT-B-2021 results, candidates should submit application for admission into this course based on the qualified score obtained in GAT-B-2021 examination.

M.Tech Bioinformatics: Admission for 25 seats in this program will be done through CCMT. Interested students with a valid GATE score card can apply for the course through Centralized Counselling for M.Tech. (CCMT - https://ccmt.nic.in/). The qualifying degree for this program includes B.Tech./B.E./M.Sc. in Bioinformatics, Biochemistry, Biotechnology, Applied Microbiology, Biology, Biomedical Genetics, Bio-Sciences, Life Science, Life Sciences (Botany), Life Sciences (Zoology), Microbiology, Agricultural Science, Biochemical Engineering, Biomedical Engineering, Biotech Engineering, Bioengineering, Biological Sciences and Bioengineering, Biomedical Instrumentation, Biosciences, Bioengineering, Biochemical Engineering and B.Pharma. GATE qualification with the subjects, Biotechnology-BT, Chemistry-CY, Chemical Engineering-CH, Biomedical engineering - BM, Life sciences – XL, and Ecology and Evolution - EY will only be considered for admission. Admission will be based on their GATE score. The admitted students will be eligible for GATE-fellowship according to AICTE rules and norms.

Integrated M.Sc./Ph.D. Biotechnology: Admission is based on an entrance examination (70 Marks) followed by interview (30 Marks). The question paper will carry 70 multiple choice type

questions. Question paper consist part A and B each carrying 35 questions. Part A is to test knowledge pertaining to Mathematics, Physics, Chemistry, General Biology and quantitative aptitude. Whereas Part B is to test subject knowledge in various areas of modern Biology at Bachelor degree level standards. The candidates will be called for an interview in their order of merit based on the entrance examination.

Ph.D. Biotechnology: Admission to PhD Biotechnology is through an entrance examination (70 marks) followed by an interview (30 marks). The question paper for the entrance examination will comprise of 70 multiple choice questions. Question paper consist part A and B each carrying 35 questions. Part A is to test knowledge pertaining to Research methodology encompassing Mathematics, Physics, Chemistry, General Biology and quantitative aptitude. Whereas Part B is to test subject specific knowledge in the cutting-edge areas of Modern Biology and Biotechnology at Master's degree level standards. The candidates will be called for an interview in their order of merit based on the entrance examination. JRF qualified candidates who passed the NET examination (under Junior Research Fellowship category only) conducted by the CSIR/UGC/DBT/ICMR will be directly called for interview. However, they can also write the entrance examination to enhance their scores. For JRF candidates who opt for exemption from written test and directly appear for interview, they will be given thirty five (35) marks in lieu of written test. For JRF candidates who appeared for written test and scored more than 35 marks, the written test marks will be considered.The PhD seats falling vacant in July session will be filled in January Session (2022).

Intake for the Ph.D. Course indicating the vacant slots of faculty along with areas for supervision (2021-22)

S.No.	Name of the faculty	Designation	Areas for supervision (2021-22)	Ph.D. vacany
1	Prof. Anand K. Kondapi	Senior Professor	SARS Cov-2 Biology	1
2	Prof. Anand K. Kondapi	Senior Professor	HIV-1 Biology	1
3	Prof. Anand K. Kondapi	Senior Professor	Evolution of HIV and Cov-2 by bioinformatics and systems biology methods	1
4	Prof. P. Prakash Babu	Senior Professor	Mechanism of Neuro-infections/neurodegenerative diseases	1
5	Prof. P. Prakash Babu	Senior Professor	Brain tumor progression and therapeutics	1
6	Prof. K.P.M.S.V.Padmasree	Professor	Insecticidal potential of seed protease inhibitors; Host-Pest Interactions	1
7	Dr. Vaibhav Vindal	Assistant Professor	Computational and Functional Genomics	1

8	Dr. N. Prakash Prabhu	Assistant Professor	Protein biophysics: folding & dynamics	1
9	Dr. Sunanda Bhattacharyya	Assistant Professor	Study of DNA replication of human malarial parasite as novel drug target	1
10	Dr. Sunanda Bhattacharyya	Assistant Professor	Studying role of Hsp90 in preventing genome instability - a potent cause of cancer	1
11	Dr. G B Madhu Babu	Assistant Professor	Neuroscience, Neurodegenerative Diseases	1
12	Dr. G B Madhu Babu	Assistant Professor	Circadian Rhythms	1
13	Dr. G B Madhu Babu	Assistant Professor	Cell Biology and Genetics	1

Faculty

Senior Professors

Anand K. Kondapi, PhD (Andhra University): Molecular therapeutics, functional characterization of DNA topoisomerases in metastasis, HIV and SARS Cov-2infection, neurodegeneration and brain aging.

P. Prakash Babu, PhD (University of Hyderabad): Neuroscience: Cell signalling and cell death (apoptosis) in cerebral ischemia (stroke), cerebral malaria, brain tumors, and stem cells. Screening natural and synthetic compounds for their anti-malarial and anti-cancer (*in vitro* and *in vivo*) activities.

Professors

Niyaz Ahmed, PhD (Manipal University): Pathogen biology, molecular epidemiology, biology of chronic infections, host-pathogen interaction dynamics.

K. P. M. S. V. Padmasree, PhD (University of Hyderabad): Biotechnological applications of proteinase inhibitors (agricultural and human therapeutics); Understanding the molecular mechanisms for resistance in pests against biopesticides; Role of Alternative Oxidase (AOX) pathway in stress tolerance (**Head of the Department**).

J. S. S. Prakash, PhD (Jamia Hamdard): Functional genomics and cyanobacterial gene regulatory networks.

Assistant Professors

Musturi Venkataramana, PhD (Sri Venkateswara University): Molecular studies on viruses causing Dengue and Chikungunya

Vaibhav Vindal, PhD (Manipal University): Gene regulatory networks, functional genomics of pathogens, analysis of protein sequence/structure/function.

N. Prakash Prabhu, PhD (University of Hyderabad): Protein structure, folding and dynamics, Spectroscopic and computational studies.

Sunanda Bhattacharya, PhD (Bose Institute, Kolkata): Role of chaperones in genome stability and chromatin remodelling, understanding *Plasmodium* biology and host parasite interaction.

Insaf A. Qureshi, PhD (Jamia Hamdard): Molecular biology and protein crystallography.

Gajula B. Madhubabu, PhD (Max-Planck Institute for Biophysical Chemistry, Goettingen, Germany): Behavioural neuroscience and neurodegenerative diseases

Pankaj Singh, PhD (University of Hyderabad): Machine learning & Data Science, Mathematical/computational modelling of gene networks, Knowledge discovery in Neuronal aging/senescence and neurodegenerative diseases.

Department of Systems and Computational Biology

The Department of Systems and Computational Biology (DoSCB) (erstwhile Virtual Centre for Systems Biology) is the fifth department in the School of Life Sciences. It was established as per the statute 17(5) (a) & (b) of University of Hyderabad based on a resolution passed by its Executive Council on 30th September 2018.

Currently the department has five regular faculty members (one Professor, three Assistant Professors and one UGC-FRP Assistant Professor) and two adjunct Professors who are actively involved in research projects in some of the forefront areas of modern biology. They have been the recipients of research grants from the national agencies such as CSIR, DST, DBT etc., and are currently part of national and international collaborative research grants (in collaboration with Rostock Medical Centre, Germany and University of Madeira. Portugal). The faculty members of the department have published research articles in the prestigious peer-reviewed journals such as Proceedings of National Academy of Sciences (USA), Journal of Proteome Research, Journal of Molecular Biology, Nucleic Acids Research, Molecular and Cellular Biology, Molecular Neurobiology, Blood etc.

The faculty members of this department are involved in teaching the courses in the areas of Genomics, Computational Biology, Bioinformatics, Molecular modelling, Mathematics & Statistics, and Systems Biology. The department is poised to grow rapidly and is optimistically looking forward to getting associated with eminent professors/scientists at various stages of their career.

Programs of Study

Integrated M.Sc Systems Biology (5 years)

This has been offered in conjunction with the College of Integrated Studies (CIS), University of Hyderabad. This course encompasses an interdisciplinary approach that is developed with the changing nature of current biological research, wherein students are trained in analyzing complex molecular systems, high-throughput biological data and mathematical modeling. Many of the students of Int. MSc (Syst Biol) are either placed in biologicals/pharma companies or pursuing their PhDs and beyond in the prestigious universities/research institutes in India and abroad.

PhD in Systems and Computational Biology

The department offers a PhD program where candidates are supposed to work on the research projects proposed by respective faculty members. The information on research areas carried out by the faculty members can be found at their respective webpages as mentioned in details about the faculty members of the department

Faculty

Professors

H. A. Nagarajaram, Ph.D. (IISc, Bangalore): Computational systems biology; assessment of functional impact disease causing mutations at molecular and systems level; discovery of basic structural principles governing protein functions; prediction and modelling of disease causing mutations in human proteins. Organic volatiles (detectable in urine and saliva samples) based biomarker discovery for human communicable and non-communicable diseases; Modelling of transport of metal ions by siderophores in soil bacteria.
Webpage:http://sls.uohyd.ac.in/new/fac_details.php?fac_id=33

Assistant Professors

Vivek, Ph.D. (JNU, New Delhi): Computational genomics: Integration of 'omics' data for gene knowledge mining; Candidate gene discovery and Nutri-genomics research in plants; Characterization of microbiota of human samples and/or plant rhizosphere for health and nutrition
Webpage:http://sls.uohyd.ac.in/new/fac_details.php?fac_id=34
Manjari Kiran, Ph.D. (CDFD, Hyderabad): Cancer genomics: Multi-omics based prognostic signature in cancers; Identification and characterization of novel RNAs in cancer; Network based approaches for drug repurposing and repositioning
Webpage:http://sls.uohyd.ac.in/new/fac_details.php?fac_id=35
Pramod Rajaram S., Ph.D. (IIT, Bombay): Systems physiology and computational medicine: Mathematical modelling and analysis of integrative human physiology for identification diseases mechanisms and therapy design; Systems Bioengineering: Chronotherapeutic drug delivery in treatment of systemic inflammation. Biomedical informatics: Application of big-data analytics for complex diseases to identify multi-omics biomarkers and causal mechanisms.
Webpage: http://sls.uohyd.ac.in/new/fac_details.php?fac_id=130

UGC-FRP Assistant Professor

Moumita Saharay, Ph.D. (JNCASR, Bangalore): Biomimetics and Biofuels: Computer simulation techniques to understand quantum mechanical description of a material that determines the

behavior at various time and length-scales; Modelling and simulations of microbial enzymes for the production of biofuel/bioethanol; Role of protein and organic molecules to model biomimetic materials.
Webpage:http://sls.uohyd.ac.in/new/fac_details.php?fac_id=132

Adjunct Faculty

Prof. Shekhar C. Mande (D.G.) Council of Scientific and Industrial Research (CSIR) Department of Scientific and Industrial Research (DSIR), Govt of India.
Structural and Computational Biologist. He has contributed significantly in the area of structural characterization of Mycobacterium tuberculosis proteins and computational analysis of genome-wide protein-protein interactions
Webpage: https://www.csir.res.in/dgcsir/dr-shekhar-c-mande
Prof. Rajeev K Varshney JC Bose National Fellow, Research Program Director, Genetic Gains & Director, Center of Excellence in Genomics and Systems Biology at ICRISAT.
Genome sequencing, genomics-assisted breeding, translational genomics and capacity building in international agriculture. His key scientific contributions have been integration of advanced discoveries in genomics with crop improvement for crops from semi-arid tropics. Furthermore, he led genome sequencing projects of 10 crops including pigeonpea, chickpea, peanut and pearl millet, and also the development of several molecular breeding products in chickpea, peanut and pigeonpea. Webpage: https://www.icrisat.org/team/rajeev-k-varshney/

Vacancies for PhD program

Name of faculty	Designation	Research area	No. of vacancies
Dr. Vivek Thakur	Assistant Professor	Computational analysis of plant genomes, metagenomics	1
Dr. Manjari Kiran	Assistant Professor	Cancer Genomics, Non-coding RNAs, Network Biology	2
Dr. Moumita Saharay	Assistant Professor	Protein dynamics, computer simulations of biomaterials and biofuels	1
Dr. Pramod Rajaram S.	Assistant Professor	Mathematical modelling and simulations for systems medicine and bioengineering	1

Entrance Examination specific information for PhD admission
The candidates seeking admission to Ph.D. need to appear for the Ph.D. entrance examination conducted by the University followed by an interview. The question papers will consist of objective type questions of 70 marks where 50% are based on research methodology and 50% are subject specific (M.Sc. standard). Broadly, the subject specific questions will be from the areas of Genomics, Bioinformatics, Programming, Protein biology, Machine learning, Systems Biology (in particular, Mathematical Modelling & Network biology), etc. **Candidates having Junior Research Fellowship (JRF)** (CSIR/UGC/DBT/ICMR) **through qualification in national level written**

examinations have a choice to directly appear for the interview. However, they have to apply to the University with their JRF Certificate. NET (LS) are not eligible to apply directly and they have to appear for the entrance examination conducted by the University. The candidates who have qualified University of Hyderabad Entrance examination and Junior Research Fellowship (CSIR/UGC/DBT/ICMR) holders appearing for the interview will be interviewed for 30 marks. The weightage given to the Junior Research Fellowship holders appearing for the interview directly without writing the University of Hyderabad entrance examination will be 35 marks as against candidates who write University of Hyderabad Entrance examination for 70 marks where the marks secured by them in the entrance examination will be considered. For those Junior Research Fellowship holders who also write the University of Hyderabad entrance examination, the marks secured either in University of Hyderabad entrance examination or the weightage given i.e. 35 for JRF's whichever is higher will be considered. JRFs have to apply to the University with their valid Junior Research Fellowship (JRF) certificate to be called for the interview. NET (LS) are not eligible to apply.

Syllabus for the 5 year integrated IMSc (Systems Biology) offered by the Department of Systems and Computational Biology in conjunction with College for Integrated Studies

Please visit website for courses: http://sls.uohyd.ac.in/new/admin/uploads/departments/5.pdf

For further details please visit the department website:

http://sls.uohyd.ac.in/new/departments.php?dept_id=5

SCHOOL OF HUMANITIES

The School of Humanities was founded on the conviction that the discipline of Humanities gives purpose, direction and value to education and life and these subjects are equally important in society like scientific and technological disciplines. The School of Humanities is the largest School in the University with thirteen (13) Departments/ Centres, seventy three permanent and three reemployed faculty members as of now, and around nine hundred students in different Master's, M.Phil. and Ph.D. programmes. The School aims at providing an appropriate space for common awareness and a sense of responsibility for making the University more than a complex of specialized departments and centres. In addition, it is committed to achievement of academic excellence, creativity and all-round development of students.

The courses offered in the School reflect these objectives and concerns. The Departments of Hindi, Telugu, Urdu and Centre for Applied Linguistics and Translation Studies are participating in the five year Integrated Master's Programme of the College for Integrated Studies.

Prof. V. Krishna is the **Dean** of the School**.**

The School of Humanities comprises the following Departments/ Centres:

1. Department of English
2. Department of Philosophy
3. Department of Hindi
4. Department of Telugu
5. Department of Urdu
6. Centre for Applied Linguistics and Translation Studies

7. Centre for Comparative Literature
8. Department of Sanskrit Studies
9. Center for English Language Studies
10. Centre for the Study of Foreign Languages
11. Centre for Endangered Languages and Mother Tongue Studies
12. Centre for Dalit and Adivasi Studies & Translation
13. Centre for Buddhist Studies

Department of English

Rated amongst the best departments in India for the postgraduate study of English by QS World Rankings, the Department admits into its M.A. programme graduates from any basic discipline. While the Department lays emphasis on giving students a sound foundation in canonical British and American texts, genres and methods of literary analysis, it also familiarizes them with literatures in English emerging from 'other' parts of the world, and equips them with interdisciplinary methods of 'reading' the literary in newer formal, cultural and mediated contexts. The Department updates and orients its academic programmes in keeping with the ever-changing disciplinary contours of literary studies and actively promotes teaching and research in areas both within and beyond the traditional limits of the 'English' canon.

Programmes of Study

M.A.(English)

This programme extends over four semesters and is worth 72 credits, of which 56 credits are awarded for core courses and 16 credits for elective courses (4 of which may be obtained from other departments). Students may register, where class schedules permit, for additional courses to acquire up to a maximum of 80 credits.

Ph.D (English)

The duration of the Ph. D. programme is as per the UGC Regulations, 2016. Applicants for admission into the Ph.D. programme must submit, at the time of the interview, a brief research proposal.

Certificate course in Publishing: (Duration 3 months)

The Department will offer a skill-based program in publishing, designed in collaboration with Cambridge University Press, from 2021. The Program, being launched under the University's Institution of Eminence (IoE) project, is spread over three months. It aims to introduce the students to components of publishing such as the life of a book, editorial processes, publishing ethics and the business of publishing, among others. The Department's first venture into the academic-industry tie-in, the Certificate Program is unique and will provide the skill-sets necessary for students to enter this competitive and high-profile profession.

Applicants must be graduates who have basic computer literacy, and reasonable facility with online and related platforms engaged in making texts for reading/ printing, as well as competence in English.

Faculty

IoE Research Chair Professor in Literary and Cultural Theory

K. Narayana Chandran, Ph.D. (IIT Bombay); American Literature; Modern Literatures in English; English in India (the history and pedagogy of the discipline); Translation; Short Narrative Forms; Reading/Literacy Theories; Malayalam Literature and Culture; Indian aesthetic/comparative studies; New Literatures /Theory in English; Allusion, Intertextuality, and Intergenres.

Professors

Pramod K. Nayar, Ph.D. (Hyderabad); Colonial Discourse Studies, Literary & Cultural Theory, Posthumanism, Comics and Graphic Novels, Human Rights and Literature.

D. Murali Manohar, B.A. B.Ed., M.Phil., Ph.D. (Hyderabad); Indian Writing in English, Indian English Women's Fiction, Dalit Literature/Studies and Women's Studies.

Anna Kurian, Ph.D. (CIEFL, Hyderabad); Shakespeare Studies, Children's Literature (**Head of the Department,**)

Assistant Professors

Sireesha Telugu, Ph.D. (Hyderabad); Indian Writing in English, South Asian Diaspora and Literature.

Siddharth Satpathy, Ph. D. (University of Chicago): 18th and 19th Century British Literature, Post-Colonial Thought, Modern Indian Intellectual Tradition

Girish D. Pawar, Ph.D. (EFLU, Hyderabad); Cultural Studies, Film Studies and Popular Culture.

B. Krishnaiah., M.A., SLET, M. Phil., Ph.D. (Kakatiya); Indian Writing in English, Indian Fiction in English by Women, Postcolonial Studies, Dalit Studies.

Gopika Sankar U. Ph.D. (IIT Madras, Cambridge CELTA): Literature and space (Spatial literary studies), Diaspora literature, Contemporary Indian English fiction, Short Fiction

Bhaskar Lama, Ph. D. (EFLU, Hyderabad); Jewish American Writings, African American Literature

Saradindu Bhattacharya, Ph.D. (Hyderabad); Young Adult Fiction, Narratives of trauma, Popular Culture and Media

Entrance Examination

MA (English)

The M.A. entrance examination question paper comprises Multiple Choice Questions for 100 marks. These include questions and exercises that test the applicant's language and comprehension skills as well as literary appreciation and awareness.

Ph.D (English)

As per the UGC Regulations, 2016, the entrance examination for admission into Ph.D. programmes is conducted for 70 marks. The question paper consists of two parts: Part A comprises questions on Research Methodology and Part B tests the candidate's subject knowledge.

Part A, for 35 marks, tests the candidate's aptitude for English Research. This section includes questions on research methods as they are practised in the major areas of English Studies. The MCQs test the candidate's familiarity with standard sources and formats of English scholarship such as the MLA and comparable citation formats, online databases, journals and other resources for research in English Studies. These questions also pertain to the aims and methods of research in English Studies, such as finding appropriate topics, conducting survey of scholarship, major schools of theory and critical approaches, stages toward writing and editing papers/ dissertation; the mechanics of writing, and the prospects of publishing research and presenting papers at scholarly fora.

Part B, also for 35 marks, tests the candidate's knowledge of the subject and his/her scholarly aptitude. This involves writing an essay on a given topic and critically analysing a prose passage, or a poem, as directed.

Additionally, shortlisted candidates are required to appear for an interview (for 30 marks). At the interview, the candidate's aptitude for research is examined on the basis of the following criteria:

· Research Proposal: quality, innovativeness, methodology
· Language skills
· Review and analysis of scholarship
· Argumentation (in the proposal and at the interview)
· Familiarity with primary sources and working bibliography

Break-up weightages for Ph.D. interviews

Weightage	Marks
Research proposal: innovativeness, quality, methodology	5
Language Skills	5
Review and analysis of scholarship	5
Argumentation (in proposal and at interview)	5
Familiarity with Primary Sources and Working Bibliography	5
JRF or M.Phil (only on production of the M.Phil thesis at the Interview)	5*

*05 Marks will be awarded at the Interview to candidates with a JRF or an awarded M.Phil (only on production of the M.Phil thesis by the candidate at the Interview). This provision of 05 marks does not apply to candidates with just NET/SLET/SET.

Syllabus for the programmes offered by the Department:

MA

Semester I

The English Language
Indian Writing in English
Introduction to Literary Studies
Shakespeare and 17th Century Literature and Thought

Semester II

18th Century Literature and Thought
Romantic Literature and Thought
Victorian Literature and Thought
American Literature and Thought

Semester III

20th Century Literature and Thought
An Introduction to Dalit Literature/Cultural Studies**
New Literatures in English I
Literary Criticism and Theory I
Elective I

Semester IV

New Literatures in English II
Literary Criticism and Theory II
Elective II
Elective III
Elective IV***

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*Each of these is a four-credit course.
** The two courses are taught in alternate years.
*** Students are encouraged to take at least one Elective course from other Departments in the fourth
semester

PhD

The programme includes mandatory course work worth a minimum of 16 credits to be completed in the first two semesters; this leads to the submission of a comprehensive research proposal, complete with a clear outline of the proposed project, survey of scholarship, and a working bibliography at the end of the third semester. Consequent upon the formal approval of the research proposal, the student embarks on writing the dissertation on her/his topic of choice under the guidance of the assigned faculty supervisor.

During the course of their research, students are expected to make regular presentations on the progress of their work to members of their respective Research

Advisory Committees (RACs), constituted by the Department.
The dissertation is finally submitted and forwarded to three external examiners for evaluation. Based on the reports of the research supervisor and the external examiners, the student defends her/his thesis in a formal viva-voce exam before the award of the degree.
The Department offers specialized guidance to newly admitted Ph.D. scholars in choosing their topics and formally assigns them research supervisors within a month of their joining the programme.

Currently, the Department encourages work in: Indian Writing in English, Dalit literature, Diaspora Studies (specifically literature from the South Asian Diaspora), Victorian Literature and Culture, Shakespeare Studies, Indo-British Literary and Cultural Transactions, Children's Literature and Young Adult Fiction, Popular Culture, English Literature of the Romantic Age, and Postcolonial Literatures in English. The Department particularly encourages research projects relating to English in India, its socio-historical and pedagogical reaches – its thrust area for the UGC's DSA-II programme.

The Department supervises research only where primary materials are available in English, or in respectable English translation.

Domains of interest/expertise are listed against the names of individual faculty above, and indicate the areas in which they might be willing to supervise research. Prospective candidates are advised to go through faculty profiles here and on the University-Department website when they apply for admission into the research programme.

Department of Philosophy

The Department is eminently known in the country for research in diverse fields of philosophy. It has been recognized by the UGC as a Department of Special Assistance since 1987. The thrust areas of research under this programme are (1) Philosophy of Language (2) Philosophy of Cognition and Mind. In addition to these, the Department also carries on research in Contemporary Western Philosophy, Systems of Indian Philosophy like Nyaya, Buddhism and Vedanta, Indian Aesthetics, Philosophy of Science, Social and Political Philosophy, Epistemology, Ethics and Logic. Programmes of Study

M.A. (Philosophy)

In this programme, the Department offers courses at two levels. At the basic level, it offers core courses in the classical schools of Indian and Western Philosophy, Ethics and Logic. At the advanced level, it offers optional courses such as Advanced courses in Nyaya and Buddhism, Social and Political Philosophy, Philosophy of Science, Philosophy of Language, Philosophy of Art, Philosophy of Mind, Postmodernism, etc. As a part of the programme, students are required to write a dissertation (12 credits) in the final semester.

Ph.D. (Philosophy)

The Ph.D. Programme, aims at developing original research in diverse fields of Philosophy. The research scholars are required to write a dissertation on a topic of their choice in consultation with the supervisor after completing at least two semesters of course work. Interdisciplinary research is encouraged, where two or more departments/schools are involved.

Entrance Examination

The question paper for the entrance test for M.A. course consists of 100 objective (multiple-choice) questions of one mark each: 50 questions pertain to Reading and Comprehension, Quantitative and Analytical Reasoning, among others; the other 50 questions are from Philosophy. There will be a negative marking of 0.33 for every wrong answer.

The question paper for Ph.D. course shall consist of 70 marks in two sections, as per the UGC Regulations, 2016.

Part-A: 35 marks will be on Research Methodology. The questions text candidates' aptitude for research in Philosophy. It includes questions on different methods of doing Philosophy, the Nature and Sources of Philosophical writings, including writing of dissertation and Philosophy papers, major schools of Philosophy and their characteristic methods, logical reasoning, the conceptual tools used in Philosophy, distinctness of philosophical methods, the difference between empirical and *a priori* methods and the methods of validating knowledge.

Faculty

C. A. Tomy, Ph.D. (Hyderabad) – Philosophy of Mind, Philosophy of Language, Metaphysics and Nature of Modality **(Head)**

K. Siddeswara Prasad, Ph.D. (Sri Venkateswara) - Nyaya, Indian Philosophy (Superannuated and Reemployed)

Associate Professors

Chandra B. Varma, D.Litt (Ranchi) – Buddhism, Indian Philosophy, Phenomenology, Translation of the Philosophical Works from Pali, Prakrit and Sanskrit into English

Laxminarayan Lenka, Ph.D. (Hyderabad), Philosophy of Language, Epistemology

Assistant Professors

Abhijeet Joshi, Ph.D. (Pt. Ravi Sankar) – Indian Philosophy (Advaita Vedanta: Classical and Contemporary)

B. Ananda Sagar, Ph.D. (Hyderabad) – Epistemology and Analytic Philosophy

Venusa Tinyi, Ph.D. (Hyderabad) – Logic, Analytic Philosophy

Kavita Chauhan, Ph.D. (Panjab) – Philosophy of Art, Indian Philosophy

Shinod N. K, Ph. D. (Hyderabad), PDF (IIT Delhi) – History and Philosophy of Science

Department of Hindi

The Department of Hindi provides teaching and research opportunities in Hindi, keeping in view the changing social norms, communication patterns, different roles of language in our society and fast changing technological development in our time. While drawing up the syllabus, sufficient care has been taken to cater to the contemporary needs of the society. Special attention is paid to focus on the career opportunities of the students and research scholars and make them globally competent.

Programmes of Study

The Department offers M.A., Ph.D Programmes in Hindi.

M.A. Hindi Language and Literature

Extended over four semesters, this programme provides instruction and guidance for acquiring knowledge in various new fields of Hindi language and literature without entirely neglecting the old and medieval texts and offers wide scope for elective studies. Special emphasis is also given to the functional aspects of the language.

M.A. Hindi Language and Literature course will have two streams: (i) Literature Stream (ii) Functional Hindi and Translation stream.

This course will have common papers up to 3rd Semester and in the 4th Semester the streams will be separated. In case a student opts for the Functional Hindi and Translation stream, he/she will be offered four separate courses (Four credits each) and it will be mentioned -'Specialization in Functional Hindi and Translation' in his/her degree of M.A. Hindi Language and Literature.

Ph.D (Hindi)

This is a research programme, with course work of 16 credits in the first year. Students are required to submit their thesis after passing the prescribed courses for Ph. D programme. No student is permitted to submit his/her thesis for the Ph.D. degree unless he/she has passed

the courses of research in the department as prescribed in a period of one year, extendable up to a period of one more year (semester by semester) from the date of confirmation of admission. There will be written and oral examinations for the course work as prescribed.

Applicants for the Ph.D courses must submit a brief description (in about 500 words) of their proposed topic of research along with their applications.

Research in the following areas is given preference:
Bhakti Literature/ Bhakti Movement, Comparative Studies, Literary Criticism, Sociological approach to Literature,
Various aspects of Modern Hindi Literature, Dakkhini Hindi – Language and Literature, Dalit and Tribal Literature,
Functional Hindi and Translation, Mass Media, Cinema and Cultural Studies, Women and Gender discourse.

Entrance Examination

M.A. (Hindi)

The entrance examination for M. A. Hindi Language & Literature will consist of 100 objective type questions only to be answered on OMR Sheet. The written test will be based on objective type questions of B.A. Standard related to the following areas:
History of Hindi Language and Literature, works of prominent personalities of Hindi Language and Literature.
Scientific and academic topics related to Hindi language and literature.General Hindi Grammar/Linguistics

Ph.D (Hindi)

The question paper of Ph.D. course consists of 70 marks in two sections, as per the UGC Regulations, 2016.
Part A – 35 marks will be on Research Methodology that includes:
Data collection process; publication research, interviews, surveys and other research techniques; researching present and historical information; Quantitative methods, Data interpretation, Aptitude and Logical Reasoning.
This part of the Entrance Test will be on the lines of Paper-I/Part-I of the UGC-NET/ JRF exam.

Part B: 35 marks will be on subject concerned which is as follows:
The areas from which questions will be asked include: History of Hindi Literature, History of Hindi language, General Linguistics, Works of prominent personalities of Hindi Language and Literature, Scientific and academic topics related to Hindi language and literature, Hindi Criticism, Indian, Western Poeties, Hindi Cinema, Journalism, Dalit, Adivasi Discoursers, Functional Hindi and Translations, Research Methodology, Women Writing in Hindi, Sociology of Literature, Bhakti Poetry, Comparative literature.

In addition, there is an Interview for 30 marks for the shortlisted candidates with the following break up-

1. UGC-NET/JRF -05 Marks
2. Proposal-05 Marks
3. Interview-20 Marks

Faculty :

Professors

V. Krishna, M.A. (UoH), M.Phil. (JNU),Ph.D (Osmania University)- Modern literature, Philosophy of Literature, Comparative studies, Functional Hindi, Translation, Dalit Literature and Identity Studies.

Ravi Ranjan, Ph.D (University of Hyderabad)- Bhakti Poetry, Modern Literature, sociology of Literature & Literary Criticism

R.S. Sarraju, Ph.D (Andhra University)- Functional Hindi and Translation studies, Comparative Indian Literature, Sociology of Literature.

Sachidanand Chaturvedi, Ph.D, Sanskrit (Kanpur University), Ph.D. (Manipur University)- Sanskrit literature, Indian Poetics, General Linguistics, Modern Hindi Literature.

Gajendra Kumar Pathak, M.A.Hindi (JNU), M.Phil. (JNU), Ph.D. (V.K.S.U.)- Bhakti movement and poetry, Hindi navjagran, Hindi Criticism, Philosophy of History of literature, Modern and contemporary Hindi Literature.(Head of the Department)

Alok Pandey, M.Phil. & Ph.D. (JNU) – Kabir, Nirala, Ageyay,, Media, Cinema, Cultural Studies, Interdisciplinary and comparative studies.

Cherla Annapurna, Ph.D (PG & Research Institute,DBHPS) Language studies, Translation studies, Comparative and modern Literature.

Vishnu Ramba Sarwade, Ph.D (Dr.B.R Ambedkar Marthwada University, Aurangabad) Adhunik sahity, Hindi sahitya ke vividh vimarsh (Dalit, adivasi, stri, alpsankyank etc., Tulanatmak adhyayan.

M. Shyam Rao, Ph.D. (University of Hyderabad) – Modern Hindi Poetry, Modern Hindi prose, Aesthetics, Marxist Approach to Literature, Sociology of Literature, Comparative Literature, Indian Literature.

Associate Professors

Bhim Singh, Ph.D (University of Delhi)- Modern Hindi Literature, Contemporary Hindi literature and Discourses, Historiography of Hindi Literature, Folk Literature of Rajasthan, Lexicography and Semantics.

M. Anjaneyulu, Ph.D (University of Hyderabad)- Modern Hindi Literature, Comparative Studies, Bhakti Literature. Indian Literature.

Assistant Professor

J. Atmaram, Ph. D (Osmania University)- Hindi Criticism, Modern Hindi Literature (Poetry & Prose), Functional Hindi and Translation, Social context of Hindi language and Registers.

Department of Telugu

The main objective of the Department of Telugu is to promote studies in Telugu Language and Literature. The Department undertakes teaching and research in Telugu with emphasis on various aspects of historical and comparative studies in language and literature. The syllabus for various courses is drawn keeping in view the changing needs of society in relation to language use, and the role of literature in the society. An equal importance is also given for studies in Classical literature and Sanskrit, along with an interdisciplinary approach.

Programmes of Study

MA (Telugu)

The M.A. programme in Telugu is of four-semester duration with all the important areas of study. There are 3 Core and 2 Optional courses in each semester totalling 20 courses. All the courses are 4 credits each and the students of M.A. have to earn 80 credits to get the Degree. The courses are designed with an emphasis on all- round development of the personality of the students with adequate importance to job opportunities. The courses provide a wide range of specializations such as classical, modern, folk, Dalit and Diaspora literatures, literary criticism and aesthetics, traditional grammar, Telugu linguistics, computer application to Telugu language, and mass media.

Ph.D (Telugu)

The Ph.D. programme is entirely a research programme oriented towards studies in classical and modern Telugu literature, comparative literature and culture, history, and Language studies. The Ph.D. programme will normally extend over a minimum period of three years from the date of confirmation of admission and maximum of six years. The nature of the programme is individually designed for each candidate, but invariably includes course work in the first semester and later, a thesis on the approved topic under faculty guidance.

Entrance Examination

MA (Telugu)

The Entrance Examination for M.A. consists of 100 objective- type questions of one mark each to be answered in OMR Sheet. The questions will be based on graduation level in the areas of classical and modern literary works, genres, authors, quotations, grammar, chandas, alankaras,

Andhra Culture, history of literature, and history of Telugu language, General Knowledge, current events etc. Negative marking is applicable for every wrong answer.

Ph.D (Telugu)

The Ph.D. Entrance Examination paper consists of 70 objective type questions at postgraduate level of one mark each to be answered in OMR sheet. Part A, 35 marks, will be on Research Methodology and Part B, 35 marks, on the subject concerned.

The questions will be based on classical and modern literature, linguistics and history of Telugu Language and Literature, grammar, chandas, alankaras, literary criticism, folk Literature, dramaturgy, methodology, aesthetics, literary works, authors, basic Sanskrit knowledge, General Knowledge etc. The candidates who qualified in the written test have to attend an oral test for 30 marks. Negative marking is applicable for every wrong answer.

Break-up weightages for Ph.D. interviews	Research Proposal and its defence: -5 marks Having UGC fellowship/M.Phil./ -5 marks Interview performance -20 marks

Faculty

Professors

Tummala Ramakrishna, M.A., M.Phil., Ph.D. (Sri Venkateswara). Modern Literature, Fiction Studies and Creative Writing and Text Book Preparation, Audio and Visual Lesson Preparation and Mass media writing. (On lien)

G. Aruna Kumari, M.A. Telugu, M.A. Sanskrit, M.A. Philosophy (Osmania); M.Phil. and Ph.D. (UoH). D. Litt. (Berhampur). Modern Literature, Classical Literature, Folk Literature, Sanskrit, Logic and Inscriptional studies, Epigraphy and Manuscriptlogy, Comparative Literature.

Darla Venkateswara Rao, M.A. Telugu (UoH), M.A., Sociology (B.R.A.O.U.), M.Phil., Ph.D. -Telugu (UoH) P.G. Diploma in Linguistics & Teaching of Telugu Language (PSTU.), Diploma in Sanskrit (O.U). Comparative Aesthetics, Literary Criticism, Applied Criticism, Classical Literature, Modern Poetry, Dalit Literature, Sociological approach to Literature, Telugu Diaspora Literature. (Head)

Pillalamarri Ramulu, M.A. (Osmania) M.Phil., Ph.D. (UoH) P.G. Diploma in Sanskrit. Classical and Modern Literatures, East and West Aesthetic theories, Literary Criticism, Evolution of Telugu Literature, and Cultural Studies.

M.Gona Naik: M.A. (Sri Krishnadevaraya Univ.Ananthapuramu, A.P.), M.Phil. (SKD Univ) and Ph.D.(SKD Univ.) Modern Literature, Folk Literature and Classical Literature.

Yendluri Sudhakar Rao:M.A. (Osmania), M.Phil (Osmania), Ph.D.(PS Telugu University):Modern Literature, Classical Literature and Comparative Literature (Hindi and Urdu).

Pammi Pavan Kumar, M.A. Telugu (UoH), M.A. Linguistics (Annamalai), M.Phil., Ph.D. (UoH). Applied Linguistics, Natural Language Processing, Preparation of e-courseware.

D. Vijayalakshmi, M.A. Telugu (Madras), M.A. Linguistics (Annamalai), Ph.D (SPMVV, Tirupati) Diploma in Tamil (Madras), P.G. Diploma in Telugu Translation (SPMVV, Tirupati). Telugu Language, Literature. Applied Language study, Comparative Dravidian and Folklore.

Assistant Professors

B. Bhujanga Reddy, M.A., M.Phil. Telugu (UoH), M.A - Applied Linguistics, Ph.D. - Linguisitcs (PSTU), M.A. Sanskrit (Kakatiya) P.G. Diploma in Translation Studies, Literary Criticism, Literary Translation, Telugu Grammar and Linguistics.

D. Vijayakumari, M.A.(Andhra), M.Phil., Ph.D.(UoH). Folk Literature and Desi Literature.

Sl. No.	Name of the Faculty	Position	Specialization	Vacancy for the Academic year 2021-22	Broad Area of specialization.
1	Prof.M.Gona Naik	Professor	Folk Literature and Telugu Literature	01	Telugu Literature
2	Prof.P.Pavan Kumar	Professor	Classical and Modern Telugu Grammar, Applied Linguistics, Natural Language Processing (NLP), Preparation of Text books and Writing for Mass Media.	03	Telugu Language and Literature
3	Prof. D.Vijayalakshmi	Professor	Socio linguistic studies on Telugu Language and Comparative Dravidian	02	Telugu Language and Literature
4	Dr.D.Vijaya Kumari	Assistant Professor	Folk Literature and Desi Literature	01	Telugu Literature
5	B. Bhujanga Reddy	Assistant Professor	Literary Criticism, Literary Translation, Telugu Grammar and Linguistics.	01	Language and Literature
			Total	08	

Department of Urdu

The Department of Urdu aims at providing teaching and research facilities in Urdu. Special importance is given for studies in Deccani research especially editing of Deccani Manuscript and Classical Literature. The syllabus is updated keeping in view of the changing needs of the society. The syllabus includes Job-oriented courses like Translation: theory and practice, Computer and Urdu software Practices, Urdu journalism and script writing for Audio-Visual media. This is the only Department in the Country having Computer Lab of 12 PCs with internet connection. The Department conducts Workshop, extension Lectures by eminent scholars, and symposia/seminars of National and International level. There is tremendous response of Ph.D. research and a good research output also.

The Department offers **IMA, M.A, and Ph.D. programmes** in Urdu.

IMA (Integrated MA in Urdu)

Ten semesters course in Urdu provide students basic knowledge of Urdu language and literature. It also imparts knowledge of history of Urdu literature and its various genre evolved over the period of time. The course helps students to develop creative writing skills and critical analysis of literary texts as well as clear understanding of cultural context of literary masterpiece. The computer course and practice of basic writing for media is also part of the course. The course stared in 2006 when the center for integrated programme launched but due to some technical reason the course has come to a halt after 2016.
Now the course in IMA Urdu is going to be reintroduced this year for benefit of Urdu loving students.

The **M.A. Urdu** syllabus has both modern and interdisciplinary features. The programme aims at giving a fair knowledge of all the important forms of Urdu Literature with introduction of other disciplines in Humanities and social Sciences relevant to Urdu Literature. The programme consists of several innovative optional courses like translation Theory & Practice, writing methods for Audio-visual media and Core/Compulsory courses in Computer & Urdu software practices and introduction to Urdu Journalism.

The **Ph.D.** programme is entirely a research programme oriented towards studies in classical and modern Urdu literature, comparative literature, Socio and cultural aspects of Language and literature. our special targets are I) Inter-disciplinary topics ii) Topics of Comparative Literature. III) Deccani research especially editing of Deccani Manuscript. The candidates for **Ph.D.** may be required to work on a topic approved by the Departmental committee but applicants for the Ph.D. course must submit a brief description (in about 500 words) of their proposed topic of research at the time of interview.

Entrance Examination:

The entrance examination for **IMA** Urdu will consist of objective type questions for 100 marks.
The entrance examination for MA Urdu will be based on Urdu Language and Literature. The question paper will consist of objective type questions for 100 marks.

Ph.D.:

The question paper of Ph.D. course shall consist of 70 marks in two sections, as per UGC regulations 2016. Part A -35 marks will be on Research Methodology, broadly will be as follows: -

Research Methodology: - "The process used to collect information and data for the purpose of making decisions. The Methodology may include publication research, interviews, surveys and other research techniques, and could include both present and historical information". Besides including Quantitative methods, Data interpretation, GK, Aptitude and Reasoning.
This part of the Entrance Test be in the UGC-CBSC/CSIR-JRF exam.
Part 'B': 35 marks, will be on Subject Concerned.
The examinations of Ph.D. will be based on M.A. Syllabus. The question paper for both the examinations, will consists of objective type questions. The candidates of Ph.D. will have an interview for 30 marks.

FACULTY:

Professors:

Dr.Habeeb Nisar: Ph.D(UoH) - Deccani Literature, Dastan, Interdisciplinary studies, Textual Criticism, Classical Prose and Poetry.

Dr. A. M. Syed Fazlullah (Head): PhD (UoHyd) - Urdu Journalism, Urdu Computer, Fiction, Non-fiction, Mass Media and Criticism.

Associate Professors:

Dr. Arshia Jabeen: PhD (UoH) - Modern Prose, Modern Fiction, Modern Literary Criticism, Computer Studies.

Dr. Md. Zahidul Haque: Ph.D. (JNU) - Classical Poetry, History of Urdu Language and Literature, Urdu Journalism and Mass Media, Comparative Literature.

Dr. Abdur Rab Manzar: Ph.D. (Osmania) - Modern Criticism, Modern Prose and Poetry.

Assistant Professor:

Dr. Mohd. Kashif: Ph.D. (JNU) - Modern Fiction and Mass Media.

Dr. Nishat Ahmed: Ph.D. (UoH) - Deccani Literature, Modern Prose and Poetry.

Dr. Rafia Begum: Ph.D. (UoH) - Fiction, Non-Fiction and Modern Poetry.

Availability of PhD vacancies for monsoon semester 2021

S.No.	Faculty	Designation	Specialization	PhD vacancy
1.	Dr. Syed Fazlullah	Professor	Fiction, Non-fiction, Urdu Journalism & Urdu-Telugu comparative literature	02
2.	Dr. Arshia Jabeen	Associate Prof	Criticism, Modern Prose and Poetry, Non-Fiction and Journalism	01
3.	Dr. Md. Zahidul Haque	Associate Prof	Modern prose and poetry, Mass media	02
4.	Dr. A R Manzar	Associate Prof	Modern Criticism, Modern Prose and Poetry.	02
5.	Dr. Md. Kashif	Assistant Prof	Fiction, Modern Prose and Poetry, Non-Fictional Prose	01

			and Journalism	
6.	Dr. Nishath Ahmed	Assistant Prof	Deccani Literature, Modern Prose and Poetry.	02
7.	Dr. Rafia Begum	Assistant Prof	Fiction, Modern Fiction Non-fiction and poetry	01
Total vacancies:				11

Centre for Applied Linguistics and Translation Studies (CALTS)

Centre for Applied Linguistics and Translation Studies (CALTS)

The CALTS has been established as a Research Centre in 1988, which has been offering Postgraduate teaching programme since 1990. The Centre specializes in Language Interface Studies with an emphasis on Language Teaching, Computational Linguistics, Language Typology, Sociolinguistics, Psycholinguistics, Translation Studies, Historical Linguistics, Lexicography, Systemic Linguistics, Corpus Studies, Language Documentation, Phonology, Morphology, Syntax, Semantics, Systemic Functional Linguistics, Stylistics, Discourse Analysis and Translation Studies (involving different Classical and Modern Indian Languages such as Telugu, Tamil, Kannada, Marathi, Bangla and Khasi), and Language Technology [for which a Special Assistance Programme has been sanctioned by UGC – Phase-I: 2002-2007, Phase-II: 2007-2012, DSA-I, 2015-2020]. Apart from being one of the advanced centres of teaching and research in Applied Linguistics and Translation Studies in the country, CALTS has also created a substantial computational facility for research and training in Natural Language Processing (NLP) and Machine Translation (MT). CALTS has faculty members specialized in the areas mentioned above. The Centre has undertaken major research projects like Indian Language to Indian Language Machine Translation (IL-ILMT), Shallow Parser Tools for Indian Languages (SPTIL) WordNet (Odia) and Indian Languages Corpora Initiative (ILCI) Phase II funded by DeiTY, Govt. of India. CALTS has been evaluated and rated by the Research Council of United Kingdom as **Centre of Excellence** in 2010 among 32 important institutions in the country.

Programmes of study

The Centre offers the following programmes:

i) Integrated M.A. in Language Sciences
ii) M.A. in Applied Linguistics
iii) Ph.D. in Applied Linguistics
iv) Ph.D. in Translation Studies

Integrated M.A. in Language Sciences;

This ten-semester program trains students in basic courses of Language Sciences courses and emerging areas of Computational Linguistics, Language Technology and Cognitive Linguistics among others in Humanities. The course is offered through the College of Integrated Studies.

M.A. in Applied Linguistics:

This is a four-semester program with 4 papers per semester, in addition to two Foundation Courses one each in the first two semesters. The compulsory courses include: Phonetics and Phonology, Morphology, Syntax, Semantics, Language Teaching & Testing, Translation Studies, Computational Linguistics, Historical Linguistics, Psycholinguistics and Sociolinguistics. The electives offered include: Advanced Morphology (Word Formation), Advanced Computational Linguistics, Machine Translation, Computational Lexicography, Linguistics and Literature, Field Techniques in Linguistics, Introduction to Systemic Functional Linguistics, Discourse Analysis, Structure of select Indian languages (Telugu, Tamil, Kannada, Marathi, Khasi etc.), Advanced Syntax, etc. A course on the project in the fourth semester.

Ph.D. in Applied Linguistics / Translation Studies:

The tenure for Ph.D. is as per UGC norms. The students need to fulfil the UGC requirements for successful completion of the program. The program consists of two parts - Course work and thesis submission. The Course work comprises four papers (16 credits) spread over two (2) semesters of the first year. It is followed by submission of a thesis on a research topic approved by the Centre. The course is tailor-made to cater to the specific requirements pertaining to the research interests of individual research scholars.

Faculty

Professors

Shivarama Padikkal, Ph.D. (Mangalore): Translation Studies, Cultural Studies, Kannada Language & Literature.

J. Prabhakara Rao, Ph.D. (Moscow): Systemic Linguistics and Systemic Typology, Mathematical & Computational Linguistics, Methodology of Linguistics, Translation Studies, Russian Linguistics and Russian as a Foreign Language.

K. Rajyarama, Ph.D. (UoH)**:** Derivational Morphology, Morpho-Syntax, Language Teaching & Testing, Machine Translation, Translation Theory and Practice.

Bhimrao Panda Bhosale, Ph.D. (Head)

(Dr. Babasaheb Ambedkar Marathwada University, Aurangabad)**:** Systemic Functional Linguistics, Stylistics, Discourse Analysis, Linguistics, Applied Linguistics and Translation, Critical Theory and Ambedkar Studies.

Associate Professors

Gracious Mary Temsen, Ph.D. (Delhi): Syntax, Linguistic Typology, Language Documentation, Khasi Linguistics, Descriptive & Comparative Linguistics.

S. Arulmozi, Ph.D. (UoH): Areas of specialization: Corpus Studies, Language Endangerment Studies, Language Analysis.

Assistant Professors

K. Parameswari, Ph.D. (UoH): Computational Linguistics & Machine Translation, Linguistic Divergence.

Sriparna Das, Ph.D. (UoH): Translation Studies, Gender Studies, Literature Studies, Multilingualism.

Morey Dipak Tryambak, Ph.D. (EFLU): Phonetics, Phonology: Linear and Non-Linear Phonology.

Y. Viswanatha Naidu: Linguistics & Computational Linguistics, Semantic Typology.

Annem Naresh, Ph.D. (UoH): Translation Studies, Postcolonial Literature.

Entrance Examination Specific Information

The pattern of the question paper for the Entrance Examination 2021 shall be as follows:

(A) Integrated M.A. Language Sciences (100 marks):

There will be 100 objective type questions spread across three parts for Entrance:

Part-A: Knowledge and Awareness of World Languages -- 40 marks

Part-B: Competence in English -- 35 marks

Part-C: Competence in the current affairs and general knowledge -- 25 marks

(For details look under **College of Integrated Studies**)

(B) M.A. in Applied Linguistics (100 marks):

There will be 100 objective type questions spread across five sections:

Section - A: Verbal & Numerical Aptitude	-- 20 marks
Section - B: Analytical Aptitude	-- 20 marks
Section - C: Knowledge of English	-- 20 marks
Section - D: Knowledge of World Languages	-- 20 marks
Section - E: Language Analysis & Problem-Solving	-- 20 marks

(C) Ph.D. (Applied Linguistics and Translation Studies)

The question papers of Ph.D. Courses (Applied Linguistics and Translation Studies) shall consist of 70 marks in two sections, as per the UGC Regulations 2016.

Part A: 35 marks will be on Research Methodology and broadly will be as follows:

Research Methodology: The process used to collect information and data for the purpose of making decisions. The methodology may include publication research, interviews, surveys and other research techniques, and could include both present and historical information. Besides including Quantitative methods, Data interpretation, Aptitude and Logical Reasoning.

This part of the Entrance Test will be in the lines of Paper-I/Part-I of the UGC-CBSE/CSIR JRF exam.

Part B: 35 marks will be on subject concerned.

In addition to this, there will be an interview for 30 marks for those who qualify in the written examination.

Note: 1.The question papers of M.A. and Ph.D. are in the objective type and shall be answered in an OMR sheet following the instructions given both in the question papers and the OMR sheet.

2.There is a negative marking of 0.33 marks for each wrong answer in M.A..

Vacancy Positions for Ph.D. (AL&TS) under faculty:

J. Prabhakara Rao
Ph.D. (AL) - 1
Areas of specialization: Systemic Linguistics and Systemic Typology, Mathematical & Computational Linguistics, Methodology of Linguistics, Translation Studies, Russian Linguistics and Russian as a Foreign Language.

Gracious Mary Temsen
Ph.D. (AL) - 1
Areas of specialization: Syntax, Linguistic Typology, Language Documentation, Khasi Linguistics, Descriptive & Comparative Linguistics.

S. Arulmozi
Ph.D. (AL) - 1
Areas of specialization: Corpus Studies, Language Endangerment Studies.

Sriparna Das
Ph.D. (TS) - 1
Areas of specialization: Translation Studies, Gender Studies, Literature Studies, Multilingualism.

Dr. Annem Naresh
Ph.D. (TS) - 2
Areas of specialization: Translation Studies, Postcolonial Literature.

7. Break-up Weightages for Ph.D. (AL & TS) Interviews (30 marks):

Research proposal and its defence	: 5 marks
M.Phil./JRF/NET/SET/MANF	: 5 marks
Interview	: 20 marks

(Communication skills, subject knowledge, argumentation skills)

Centre for Comparative Literature (CCL)

The Centre for Comparative Literature, functioning since 1988, aims at providing an interface between literatures and cultures. The Centre offers M.A. and Ph.D. programmes, which encourage a study of systems of knowledge in order to develop a critical awareness of socio-political and cultural discourses.

Programmes of Study:

The M.A. in Comparative Literature is a four-semester programme and each semester carries a minimum of 16 credits, apart from two foundation courses in the first year. There is continuous evaluation followed by semester-end examinations. The programme allows a choice of elective courses and a research-oriented dissertation in the fourth semester. While the programme traces the history of the discipline and the development of methodologies, it also emphasizes Translation Studies and Cultural Studies as essential to engage with literatures and cultures.

The Ph.D. in Comparative Literature extends over a minimum period of two years. The nature of the programme is decided by the student in consultation with faculty, but the requirement invariably include course-work comprising of 12-14 credits, over two semesters and has continuous evaluation and a semester-end examination. A 2 credit course on "Research and Publication Ethics (RPE)" is made compulsory for all Ph.D. students admitted from 2020-21. The major part of PhD program is writing a thesis on an approved topic under faculty supervision that will also go through external evaluation before the award of the doctoral degree.

Medium of Instruction:

Applicants should note that the medium of instruction in the Centre is English, and, hence, should ensure that they have a good knowledge of English to follow the lectures and actively participate in curricular activities.

Entrance Examination:

The entrance examination for **M.A.** will carry **100 marks**, comprising questions of objective type that will test the candidate's English language / literary comprehension skills as well as awareness of Indian / world literatures, literary criticism / theory and contemporary trends / movements.

The entrance examination for **Ph.D.** will carry **70 marks** and consists of objective type questions in two parts. Part A for 35 marks will be on research / analytical / reasoning capabilities. Part B for 35 marks will test the candidate's knowledge of Indian / world literatures, comparative / literary / cultural theories, contemporary trends / movements as well as English language proficiency.

Applicants for **Ph.D.** admission must submit along with the application a brief research proposal (about **750 words**).

Short-listed **Ph.D.** candidates are to appear for an interview (**30 marks**), with six copies of their research proposal, on dates notified by the Centre/University.

Faculty

Professors

M.T. Ansari, Ph.D. (EFLU, Hyderabad), joined the Centre for Comparative Literature in 2004 and his current research interests include Cultural Studies, Minority Studies, Kerala Studies and World Literatures.

Sowmya Dechamma C.C., (Head) Ph.D. (UoH, Hyderabad), is with the Centre for Comparative Literature since 2004. Her teaching and research interests include Comparative Indian Literature and Cultural Discourses, Gender, Translation Studies, The Politics of Languages, and Kodava Performative Cultures.

Associate Professor

J. Bheemaiah, Ph.D. (Osmania University, Hyderabad). Dr. Bheemaiah's teaching and Research interests are in the areas of Dalit and studies of other Margins, Indian Literatures and Cultures.

Assistant Professor

V. Vamshi Krishna Reddy, Ph.D. (UoH, Hyderabad): Specializations include Cultural Studies, Film Studies, and Critical Theory

Weightage for PhD interview:

Defence of the Proposal (in both the written proposal and at the time of interview):
Research Questions: 5
Methodology: 5
Significance: 5
Awareness of Scholarship in the area: 5
Familiarity with the primary texts: 5

JRF/RGNF/OBCF/MANF/Single-girl Child Fellowship: 2
M.Phil : 1
NET: 1
Research Publications: 1

Link to CCL (MA) courses online: https://centres.uohyd.ac.in/ccl/courses/
Vacancy Positions for Ph.D. under faculty:
Sowmya Dechamma C C: **02**
Vamshi Krishna Reddy: **01**
J.Bheemaiah**: 01**

Department of Sanskrit Studies

The Department offers a Ph. D. program in Sanskrit Studies. The present focus of program is in Language Technologies and Ayurveda. The Ph.D. Program extends over a minimum period of two years from the date of confirmation of admission. The nature of each course is individually decided for each candidate, which will include minimum two courses, a core course in Research Methodology, and a dissertation on an approved topic under the Faculty guidance.
The goal of Language Technologies discipline is to 'train Sanskrit Scholars in the emerging field of Sanskrit Computational Linguistics showing the relevance of traditional śābdabodha theories to the field to computational Linguistics, thus bridging the gap between the past and the present.'

The focus of Ayurveda discipline is to contribute to interdisciplinary research in Indian psychology concerned with various dimensions of influence of food, diet and nutrition on mental health besides working in linguistic, translational and philosophical aspects of Ayurveda samhitās, to generate data useful for pre-clinical studies.

Programmes of Study
The department offers an MA (Sanskrit Studies) & Ph.D (Sanskrit Studies).

M.A. Sanskrit Studies
The syllabus is designed in such a way that the students are taught the Sanskrit texts in the same traditional manner, but at the same time they are also shown the interface of these knowledge systems with the modern knowledge systems. Thus, the students are exposed to the importance and applicability of the knowledge they acquire in the current context. This course will equip them to take up research in inter-disciplinary areas. At the same time, they will also be confident enough to derive insights from Indian knowledge systems into their own disciplines. In addition to all the openings a regular student of Sanskrit has, these students will have an edge over them with an exposure to the knowledge systems in other disciplines. Journalism, health industry, IT industry, NGOs would provide them ample job opportunities apart from teaching and research.
Students can choose any one out of the following four interfaces, (Subject to the availability of faculty) for optional courses.
1. with Computational Linguistics and Vyākaraṇa, 2. with Sciences, 3. with Social Sciences, and 4. with Mathematics and Computer Science

Ph.D Sanskrit Studies

The Ph.D. programme normally extends over a minimum period of two years from the date of admission. The programme comprises mandatory course work of 12 credits spread over the first and second semester. Scholars are required to write a thesis on an approved topic under the supervision of a faculty member. The thesis is examined by internal and external examiners and is followed by a viva voce examination. During the period of research, scholars are required to give seminars on their 'work-in-progress', every semester.

Faculty

1. **Prof. J.S.R. Prasad**, Āchārya (Navya-Nyaya), Śikṣā-Śāstri, Ph.D. (Navya-Nyaya, Rashtriya Sanskrit Vidyapeetha, Tirupathi) Indian Psychology, Scientific, linguistic and philosophical aspects of Ayurveda samhitās, Ayurvedic concepts in Sanskrit literature, Scientific literature in Sanskrit. (**Head of the Department**)
2. **Prof. Amba P. Kulkarni**, M.A. (Sanskrit), M. Sc. (Maths), M.Tech. (CSE, IIT, Kanpur), Ph.D. (Applied Linguistics, University of Hyderabad) – Bridging the gap between Science and Technology in Sanskrit texts and the Modern Science and Technology, with special emphasis on Language Technology, Computer Science and Mathematics.
3. **Prof. Aloka Parasher-Sen,** Emeritus Professor, M.A., Ph.D (History, University of London), Ancient Indian History, Social History of Marginalized Groups, Gender History, History of Ancient Indian Concepts and Knowledge Systems, Environment, Science and Technology, History of Early Deccan and Heritage Studies

Entrance Examination specific information for Ph.D:

Part A:- 35 marks objective questions related to Research Methodology.

Part B:- 15 marks. Short answer Questions and essay type questions for 20 marks related to the subject concerned.

In addition, there is an Interview for 30 marks for shortlisted candidates.

Eligibility criteria of programmes of study::

a) Master's Degree in Sanskrit or equivalent / Natural Language Processing with at least 55% marks

OR

b) B.A.M.S. with at least 55% marks

Break-up weightages for Ph.D.:

- Research Proposal and its defense – 5 marks
- Possessing M.Phil./ a National Fellowship/ Award – 5 marks
- Interview – 20 marks
- Total: 30 marks

Any other information:

A bridge course would be offered to the students with little exposure to Sanskrit literature

Centre for English Language Studies

The Centre for English Language Studies caters to a diverse group of students across disciplines and is emerging as a research and resource centre for language studies. The Centre offers M.A and Ph.D. programmes in English Language Studies. English language education and other aspects of language study such as linguistics and history of English in India, are some focal areas. The Centre is also engaged in the teaching of English at the Centre for Integrated Studies for Integrated Masters students, besides offering need-based courses on Academic Writing, Communication Skills and Technical Writing to students at the postgraduate and research levels.
The research interests of the faculty at the Centre span several areas of language studies and aspects of pedagogy. The faculty of the Centre publish in areas pertaining to their research interests and are part of ongoing research projects.

Programmes of study

M.A. in English Language Studies

The MA programme covers a wide range of areas in the field of English Language studies. It has courses drawn from Linguistics, English Language Teaching, Sociolinguistics, Pedagogy, etc. The programme extends over four semesters and has a minimum of 70 credits. Apart from the core courses, the programme has elective courses which are offered in the third and fourth semesters. The electives offered enable the students to specialize in specific domains like language teaching, corporate communication, technical writing, editing, etc. Students are encouraged to opt for courses outside the Centre as well.

Ph.D (English Language Studies)

The Ph.D. programme normally extends over a minimum period of two years from the date of admission. The programme comprises mandatory course work of 12 credits spread over the first and second semester. Scholars are required to write a thesis on an approved topic under the supervision of a faculty member. The thesis is examined by internal and external examiners and is followed by a viva voce examination. During the period of research, scholars are required to give seminars on their “work-in-progress” every semester.

Entrance Examination

MA (English Language Studies)

The Entrance Examination will be in two parts: Part A: 25 Marks; 25 multiple-choice questions testing English language proficiency.
(Negative marking: 0.33 deducted for every wrong answer; no marks deducted for questions not attempted).
Part B: 75 Marks; multiple-choice questions on basics of Linguistics and ELT, and questions testing analytical and problem solving abilities. (No negative marking)

Ph.D (English Language Studies)

Written Examination: 70 Marks. The Ph.D Entrance Examination will be in two parts:
Part A: 35 marks; Multiple-choice questions on Research Methodology. It will test the following: Basics of research such as research processes, types of research, research design, variables, measurement and scaling techniques, sampling and data collection methods, data processing and data analysis and research report writing.
Part B: 35 marks; Questions on the subject concerned i.e. English language education and English Linguistics.
This will consist of two sections: Multiple choice questions for 20 marks and an essay question for 15 marks. In addition, there will be an Interview for 30 marks for shortlisted candidates.

Break-up of marks for Ph.D. interviews:

Research Proposal-5
Interview performance-20
JRF, M.Phil. -5

There will be no admissions for Ph.D. this academic session.

Faculty

The Centre has 2 Professors, 1 Associate Professor and 3 Assistant Professors.

Professors:

Pingali Sailaja, Ph.D. (CIEFL, Hyderabad). Areas of Study: Phonetics, Phonology, Morphology, Sociolinguistics, World Englishes, Indian English, English Language Education, Testing and Assessment, English in India: Historical, Educational and Linguistic aspects. (Head of the Centre)

Sunita Mishra, Ph.D. (CIEFL, Hyderabad). Areas of Study: Politics of English Language Education, Sociolinguistics, Discourse Studies, Critical Pedagogy, History of English Language Teaching in India, especially Odisha, and Indian Philosophy of Language.

Associate Professor:

Shree Deepa, Ph.D.(Osmania), M.Ed (Bharathidasan University), PGDTE (CIEFL) Current areas of Interests/Study/ expertise: Inclusive pedagogy (Blind/ Visual-impairment), Critical Thinking, Indian Philosophy and Language Teaching/ testing.

Assistant Professors:

Jyothi Hymavathi Devi, M.Phil Translation Studies (University of Hyderabad). Areas of Study: English
Language Teaching, Translation Studies, Research Methods, Psychology of Language Learning.

Jasti Appa Swami, Ph.D (Osmania). Areas of Study: ` Academic Writing, Discourse Analysis, Genre Pedagogy, English for Specific Purposes (ESP), Systemic Functional Linguistics
(SFL), Second Language Reading and Writing, and Corpus Applications to
Language Learning and Teaching.

Joy Anuradha, Ph.D. (CIEFL, Hyderabad). Areas of Study: Cognitive Linguistics, Systemic Functional Linguistics, Psycholinguistics, English Language Education, and Technical Communication.

Centre for Dalit & Adivasi Studies and Translation

The Centre was established in June 2011 with the aim to prepare an atmosphere of National Integrity and emotional binding with the marginalized communities, mainly the Dalits & Adivasis through teaching of language and literature, its research and its translation into Hindi. The translation of literary texts from Indian languages into Hindi and further studies and the research based on them would be giving Hindi an opportunity to fulfill its role as the National Language and the link Language of our country in its true sense.

The Centre gives emphasis on teaching and research and translation of the Dalit and the Adivasi languages and literature, parallelly. Hence, the objective of the Centre is to collect the oral traditions (memory bank) & performance, arts, paintings and handicrafts of the Dalit & Adivasi culture and life style. There will be field work also. The Centre offers Ph.D. programme in Hindi medium.

Programmes of Study

Ph.D. Programme

The Ph.D. programme normally extends over a minimum period of two years from the date of admission. In the first two semesters the candidate will be offered four courses with 04 credits each, the fourth course being a practical course. After completion of the First semester, the student will be required to write a thesis on an approved topic in the areas of Dalit & Adivasi Studies under the guidance of a faculty member. After submission of the thesis the candidate has to attend an Oral examination.

Entrance Examinations:

Ph.D.

The question paper of Ph.D. Course shall consist of 70 marks in two sections, as per the UGC Regulations 2016. Part A – 35 marks will be on Research Methodology and broadly will be as follows:

Research Methodology: "*The process used to collect information and data for the purpose of making decisions. The methodology may include publication research, interviews, surveys and other research techniques, and could include both present and historical information". Besides including Quantitative methods, Data interpretation, Aptitude and Logical Reasoning.*

This part of the Entrance Test be in the lines of Paper-I/Part-I of the UGC-CBSECSIR JRF exam.

Part B: 35 marks will be on subject concerned.

The Written Test comprises of 70 marks on objective questions on the History of Hindi language and Literature, Indian Dalit & Adivasi Literature and Translation Studies.

In addition, there is an Interview for 30 marks for shortlisted candidates.

Weightage for different components for admission to PhD programme in Centre for Dalit - Adivasi Studies and Translation will be following.

S.No.	Weightage	Marks
1	Research proposal	5
2	Fellowship/M.Phil./NET/SET	5

3	Interview	20
	Total	30

Note: There will be no admissions for Ph.D. during the academic year 2021-22.

Faculty

Prof.R.S. Sarraju (Head of the Centre)

Prof.P.Subbachary. (Visiting Professor)

CENTRE FOR BUDDHIST STUDIES

Centre for Buddhist Studies, established on August 8, 2009 is an exemplification of the University's magnanimous vision that affirms the *raison d'ètre* for its creation and affirms the specific requirements of the subject with its interdisciplinary and highly technical and specialized character that demands greater attention and autonomy for its growth. The Centre is first of its kind not only in South India but in the entire country for its objectives to conform to all international standards in Buddhist researches and teachings with focus on Original Buddhism based on the primary sources in Pali. The Centre had also received a grant from UGC under the Epoch Making Social Thinkers of India Project.

As there are no permanent faculty members in the Centre, it has been decided that there will be no admissions in the Ph.D. programme during 2021-22

Prof. V. Krishna, Professor, Department of Hindi & Dean, School of Humanities is the Head of the Centre.

Centre for Endangered Languages & Mother Tongue Studies (CEL&MTS):

Head: Prof. Pammi Pavan Kumar.

The Centre for Endangered Languages and Mother Tongue Studies (CEL&MTS) was established in the year 2010 for research and documentation of endangered languages spoken in India. It is the first Centre of its kind in a University set-up in our country.

Courses Offered: The Centre is the first one to offer Ph. D. programme in Documentary Linguistics in this country, and two students are doing research in this area. There will be no admissions for Ph.D. during the academic year 2021-2022.

Faculty: There are no permanent faculty members in the Centre. Prof. Pammi Pavan Kumar from the Department of Telugu has been appointed as **Head** for the Center for a period of three years with effect from 17-09-2020.

SCHOOL OF SOCIAL SCIENCES

School of Social Sciences

The School of Social Sciences comprises the following Departments and Centres.

Departments

1. Department of History
2. Department of Political Science
3. Department of Sociology
4. Department of Anthropology
5. Department of Education and Education Technology

Centres

1. Centre for Regional Studies
2. Centre for Folk Culture Studies
3. Centre for Study of Social Exclusion and Inclusive Policy
4. Centre for Study of Indian Diaspora
5. Centre for Knowledge, Culture and Innovation Studies
6. Centre for Human Rights
7. Centre for Ambedkar Studies
8. Centre for Women's Studies

All the Departments (Anthropology History, Political Science and Sociology) have been recognised by the University Grants Commission for the Special Assistance Programme and the Dept. of Political Science as the Centre for Advanced Studies.

An Archival Cell with the support of the UGC is functioning under the auspices of the Department of History for preservation of rare and valuable manuscripts. The Department of Anthropology has developed a Museum as teaching aid for the students. The Centre for Folk Culture Studies has an Audio Visual Archival containing the Centre's field work, documenting films etc., The Centre for the Study of Indian Diaspora has a special library consisting of historical material (diasporic literature) collected from different parts of India. All the Departments are equipped with internet facilities.

From the Academic Year 2007-2008 the School of Sciences has started 5-Years Integrated Programme in Social Sciences leading to Masters Degree in History, Political Science, Sociology and Anthropology. For the first three years the students admitted to the programme do courses offered by various departments in the School and other Schools in the University conducted at the Centre for Integrated Studies At the end of three years, students are transferred to their parent departments namely, Departments of History, Political Science, Sociology and Anthropology.

From the Academic Year 2020-21, the School of Social Science under the Department of Education and Education Technology (DEET) is offering M.Ed. Programme.

Prof. Y.A. Sudhakar Reddy, Centre for Folkculture Studies is the Dean of the School.

Department of History

The Department of History offers courses leading to M.A., Ph.D. degrees It also offers 10 courses in history for the first three years of IMA (5-year integrated) programme in Social Sciences. Its teaching programme is designed to provide students with a broad overview of world history narrowing down to focus on the history of India with special emphasis on socio-economic history, science & technology, environment and cultural history.

There is a two-fold aim of all research activities in the Department: a) Widening the database in its studies of local and regional history, and b) introducing an interdisciplinary approach to understand the underlying social and economic realities of the history of India through the ages. The Department has also been involved in guiding research on North- East India, science & technology, environment, medicine, economic history, maritime history, women's history, Indian national movement, peasant and tribal movements, cultural history, and contemporary history.

Infrastructure

Under the support from the Special Assistance Programme of the UGC, the Department has been able to purchase a large number of books on most of the recent writings on history. Under the UGC Programme of Universities with Potential for Excellence (UPE) the Department strengthened its infrastructural facilities. It has also been able to support the subscription of several foreign and Indian journals in the discipline of History. The Archival Cell in the Department contains several private papers of individuals who participated in the freedom movement. The Department has an archaeological museum containing antiquities representing artifacts from stone ages to late medieval period.

The Department of History has a Computer Laboratory with 12 computers and a printer.

Programmes of Study

MA (History)

This is a two-year programme consisting of 16 courses spread over four semesters, with four courses per semester. The main thrust of the first two semesters is to equip students in certain core compulsory courses in both Indian and non-Indian history. These are designed to be comprehensive and to introduce students into the various interpretative dimensions of understanding the history of human civilization with a focus on India. During semesters III and IV a wide range of special courses are offered as optionals by the Department, thus providing an opportunity for students to specialize in specific areas of Indian history. Students also have an opportunity to do at least two courses outside the Department during their third and fourth semesters with the aim to encourage interdisciplinary studies. The Students securing an overall

CGPA of 7.5 in the first two semesters would be allowed to do a dissertation of 12000 words in the IV semester. Dissertation is purely optional and will be in lieu of a standard 4-credit course.

Ph.D (History)

The Ph.D programme is mainly a research programme. Those students admitted directly without M.Phil degree are required to do the course work and pass the examinations conducted by the Department. Students undertake research on an approved topic under the guidance of a faculty member.

Entrance Examination

M A (History)

The entrance examination will be of 100 marks. It will consist of 100 multiple choice questions of one mark each. Students will be tested on their knowledge of Indian history, World history, and comprehension.

Ph.D. (History)

The question paper of Ph.D. Courses shall consist of 70 marks in two sections. Part A will be on Research Methodology and Part B will be on subject concerned (consists of questions on Indian History). The pattern of exam would be in essay form.

There is an Interview for 30 marks for shortlisted candidates. The break-up of 30 marks would be as follows: 15 marks for interview performance, 10 marks for proposal and 5 marks for MPhil awarded/submitted/JRF (UGC/ICHR/ICSSR).

Faculty

Professors

Rila Mukherjee: Ph.D. (Paris) - Economic History of South Asia, Early Modern European History, Democracy and Citizenship Studies, Maritime and Oceanic History, Historical Cartography

K P Rao : Ph.D. (Nagpur) - Field Archaeology, Pre and Proto History, Ancient Indian History, Iron Age, Megalithic Culture and Ancient Trade

Sanjay Subodh: Ph.D. (Chandigarh) – Medieval Indian Historiography, Science and Technology, Medieval Archaeology (Director, College for Integrated Studies).

Bhangya Bhukya: Ph.D. (Warwick, UK) - Modern Indian History. His research interests are community histories, the effects of power/knowledge, governmentality and dominance, the state and Nationalism, intellectual histories of subaltern communities, identity politics by forest and hill people in the nineteenth and twentieth century.
(**Head of the Department**)

Anindita Mukhopadhyay: Ph.D. (London) - Modern Indian History, Modern Western Ideas and their impact, Law and Society, Society and Culture.

Associate Professors

Y Swarupa R Shankar: Ph.D. (Hyderabad)- Modern Indian History, Social and Cultural History of South India, Women's History, Historiography.

B Eswara Rao: Ph.D (IIT Madras)- History of science, Technology and Medicine, Environmental History.

V Rajagopal: Ph.D. (Wisconsin) – Modern Indian History, Social History, History of South India.

V J Varghese: Ph.D. (Hyderabad) - Modern Indian History, Modern Kerala, Making of Modern Subjectivities, Regional Modernities, Transnational Migrations.

Assistant Professors

M N Rajesh: Ph.D. (JNU, Delhi) - Medieval Indian History, Socio- Religious Movements and Polity in South India and the Deccan, Tibetan History and Culture.

Rashmi: Ph.D. (JNU, Delhi) - Medieval and Early Modern Indian History, Urban History, Cities and Maritime History.

Vijaya Ramadas M: Ph.D. (Manchester)- Modern Indian History, Environmental History.

Department of Political Science

The Department of Political Science, started in 1979, has 19 faculty members and 280 students now. Recognized by the UGC as a Centre for Advanced Studies, the Department has completed the first phase of the programme, with “Democracy, Development and Autonomy: India in a Globalising World” as the thrust area.

Programmes of Study

MA (Political Science)

The M.A. programme in Political Science consists of 16 courses (8 core courses and 8 optional courses) spread evenly over 4 semesters. Each course carries 4 credits. In addition, students must complete 2 Foundation Courses (3 credits each), in the first two semesters. In formulating the programme, the Department is guided by the consideration that at the postgraduate level, students should be familiar with all the sub-disciplines, trends, approaches, and paradigms of Political Science. With this in view, the Department offers core courses on Political Thought, Comparative Politics, International Relations, Indian Political Process, Public Administration and Public Policy. These courses attempt to acquaint students with the latest theoretical and political

trends. After completing 8 core courses in the first two semesters, students are required to choose 8 optional courses, 4 each in the third and fourth semesters, in frontier areas such as Dalit Politics, Women's Movements, Governance, Policy Studies, Indian Political Thought, India's Foreign Policy and Globalization. Students can also opt for 2 courses offered by other departments as optional in the second year. The Foundation Courses are designed to enhance skill sets in general.

Ph.D (Political Science)

The duration of the Ph.D. programme is according to the UGC Regulations, 2016. Students are required to write a thesis on a topic approved by the Department. Students will work with their supervisors and doctoral research committees in researching and writing the thesis. In each semester, they must secure a satisfactory report from the doctoral committee in order to be able to register. They will be required to present and defend their research proposals in a seminar organized by the Department. Doctoral students are encouraged to present their work-in-progress at least once during their tenure in the Department. All Ph.D. students are required to defend their theses in a pre-submission seminar and viva-voce. Students who do not have an M. Phil degree with coursework on research methodology and academic writing will have to do the course work, and an individual course with their supervisor, as part of their Ph. D. programme.

Entrance Examination

M.A.

The written test for admission to MA Political Science consists of 100 multiple choice questions (1 mark each) that test the general knowledge about politics, subject specific knowledge, and passage comprehension abilities of the candidate. The candidate must answer in the OMR sheet.

The MA questions are based on the undergraduate syllabus of BA (Political Science) taught in universities/colleges across India. This broadly covers the areas of Political Theory and Thought (including Indian Thought), Indian Government and Politics, Public Administration, International Relations and Comparative Government and Politics.

Ph.D.

The question paper of PhD consists of 70 multiple choice questions (1 mark each) that test the general knowledge about politics, subject specific knowledge, familiarity with research methodology and the passage comprehension abilities of a candidate.

The questions are based on the syllabus of MA (Political Science) as taught in universities/colleges across India, with the following sub-fields:

Indian Government and Politics: Indian constitution, institutions and structures of governance, federalism, parties and party system, elections, civil society, social and political movements

Political Theory and Thought (Western and Indian): Major Western Political Thinkers from Plato to Marx and Mill, Twentieth century developments in Political Theory, Political Concepts, Political

Ideologies, Ancient Indian Political Thought: Texts and Concepts, Modern Indian Political Thought: Thinkers, Concepts and Isms.

Comparative Politics: Political Institutions, Regimes, Systems and Isms, Rights and Social Movements, Major Issues and events within countries, Concepts for understanding political processes.

Public Policy/Public Administration: Meaning, Principles, Origin as a discipline, Approaches to study Public Policy/Public Administration, Types of policies, Formal and informal institutions and structures, Techniques of policy decisions.

International Relations: Theories in International Relations, Events and Issues in World Politics (Historical and Contemporary), International Organizations, State and Non-State Actors, International Law, Processes in International Relations (pertaining to security, economic, diplomatic, cultural and non-traditional arenas), Foreign Policies and International Approaches of States and Regions.

The above mentioned sub-fields also include Research Methodology (approaches, theories, concepts, analysis, techniques etc) as pertaining to research within the sub-field.

The Ph.D. question paper will consist of Part A and B.

Part A – The questions will cover research methodology. Research methodology would broadly comprise theory and concepts, approaches and techniques of empirical analysis including interviews, surveys and other research techniques, and could include both present and historical information. It would include Quantitative and Qualitative methods, Data interpretation, Aptitude and Logical Reasoning.

Part B –The questions will cover subject specific knowledge as mentioned in the sub-fields above.

The candidate must answer in the OMR sheet.

Candidates shortlisted in the qualifying exam will be called for an interview. The interview is to assess the knowledge of students in their areas of research interest, based on their research proposals, which must be submitted to the interview board at the time of the interview. The topic of research, hypotheses/research questions, goals or objectives of the study, statement of the problem and methods should be clearly written in the proposal. This is an essential requirement to interview the candidates for the selection. **Candidates will not be interviewed if they do not have a research proposal.** Candidates are advised to bring proof of additional qualifications such as JRF/M.PHIL/NET certificates and publications if any.

While the interview focuses on the research proposal and subject knowledge, some weightage is given for fellowships/M.Phil etc. Once admitted, students may be asked to modify or adapt their research proposals according to the supervisory expertise available in the Department.

Interview weightages for Ph.D. course 2021

S.No.	Weightage being considered	Marks
1	Having Fellowship/NET/SET/JRF	2
2	Interview component	28

	Total	30

Faculty

Professors

Arun Kumar Patnaik, Ph.D. (JNU) – Political Theory, Political Economy of Development.

Jyotirmaya Sharma, M.A. (Hull) – Political Philosophy/Theory, Indian Political Thought (on leave).

K.C. Suri, Ph.D. (JNU) – Indian Political Process and Public Policy

Sanjay Palshikar, Ph.D. (Poona) - Political Theory, Indian Political Thought

Vasanthi Srinivasan, Ph.D. (Ottawa) – Political Philosophy, Comparative Politics, Indian Political Ideas

Prithvi Ram Mudiam, Ph.D. (London) – International Relations, Indian Foreign Policy, South Asian Politics, International Political Economy.

Manjari Katju, Ph.D. (London) – Indian Political Process, Politics of Hindu Nationalism, State Institutions

Kham Khan Suan Hausing, Ph.D. (JNU) Federalism, Nationalism, Ethnic Conflict, Indian Political Process, Northeast India. (Head of Department)

R. Ramdas, Ph.D. (JNU) – Indian Political Process, Tribal Development, Comparative Politics.

K. K. Kailash, Ph.D. (JNU) – Indian Political Process, Comparative Federalism, Party Politics.

Venkatesu. E., Ph.D. (Hyderabad) – Democratic Decentralization and Governance, Public Policy, Backward Class Politics, Election Studies and Political Process in India.

Associate Professors

K.Y. Ratnam, Ph.D. (JNU) – Indian Political Process, Dalit Politics in India, Democratic Process in Andhra Pradesh.

Biju. B. L., Ph.D. (Kerala) – Political Theory, Indian Political Process, Politics of Globalization, Society and Politics in Kerala.

Assistant Professors

Shaji. S., Ph.D. (Hyderabad) – International Relations, Foreign Policy of India, Foreign Policies of Developing States, Transfer of Technology and International Politics.

Aparna Devare, Ph.D. (American University, Washington D.C.) - Comparative Politics, Historiography, Indian Politics, International Relations Theory, Post- colonial Theory, World Politics (on leave).

D. Veera Babu, Ph.D (Osmania)—Public Policy.

Bhim Bahadur Subba, Ph.D (DU) – Comparative Politics, International Relations, Chinese Studies.

Sneha Banerjee, Ph.D (JNU)-- Gender Studies, International Politics, Politics of Globalisation, Comparative Politics

Anagha Ingole – Ph.D. (JNU) – International Relations, Political Thought, Religion and Caste in Indian Politics.

Department of Sociology

The Department, constituted in the year 1979, has grown over the years to be one of the important centres of sociology teaching and research in the country. While emphasizing topics and themes central to the discipline, the Department's teaching and research activities have been oriented towards contemporary questions that have both basic and applied dimensions. The academic activities of the Department have a unique disciplinary and interdisciplinary orientation, designed to guide and support student development as independent learners as well as to inspire them to critically engage with policies, issues, and social action. While the department's prime focus is teaching, research is as much its strength. The learning ambience of the department is both informal and rigorous, being geared towards promoting a critical spirit of inquiry among students. The structure and content of our courses are meant to give a grounding that not only prepares students for future studies in sociology/social science, but also offers the benefits of learning to work in a constructive way in other areas of life.

Programmes of Study

Two programmes of study are offered leading to the M.A. and Ph.D. degrees in Sociology. The Department also participates in the Five Year Integrated Master's Programme in Social Sciences by offering a variety of courses at the Centre for Integrated Studies. At the end of three years, students in the Integrated Master's Programme have the option to join the Department with the regular M.A. students, subject to some conditions. The courses offered by the Department under the auspices of the Integrated Master's programme are the following: Introduction to Study of Society; Changing Indian Family; Equality and Inequality; Caste in Modern India; Rural and Urban Societies; Roots of Social Protest; Contemporary Development Issues; Religion and Society; Introduction to Social Research; Work and Organizations; and Theories of Society.

The M.A. Programme in Sociology is a four-semester programme spread over two years, and consists of ten compulsory courses and six optional courses. Both the compulsory and optional courses are of four credits each. Students are allowed to take up to three of the six optional courses from other departments, subject to the permission of the Head of the Department.

The Compulsory Courses for M.A. are the following : Classical Sociological Theory; Research Methods I - Survey Research and Basic Statistics; Society in India: Approaches; Society in India: Contemporary Issues; Knowing the Social World; Modern Sociological Theory; Research Methods II - Qualitative Research Methods; Social Stratification; Sociology of Development; and Political Sociology.

Some of the following Optional Courses for M.A. are: Sociology of Gender; Rural Society and Agrarian Change; Law, State and Society; People, Nation and State; Industrial Relations and Contemporary Capitalism; Urban Sociology; Science, Culture and Society; Technology, Culture and Society; Sociology of Organizations; Environmental Sociology; Sociology of Culture; Social Movements; Decentralized Governance and Development; Society and Sexuality, Sociology of Health, Sickness and Healing; Sociology of Education; Ethics and Society; Debating Ethnicity and Race; Sociology of Business, Industry and Labour; Indian Diaspora, Sociology of Backward Classes, and Sociology of Communication, Sociology of Dalits, Sociology of Wars, Violence and Reconciliation, Colonized Societies and Post-Colonial Predicaments. The Department will announce which of these optional courses will be offered every semester. The contents of most of these courses are available on the University Website.

The duration of the Ph.D. programme is according to the UGC Regulations, 2016. Those Ph.D. students who have not done M.Phil coursework will have to do the coursework in Sociological Theories, Research Methodology, Academic Writing and one Optional Course in the broad area of research in which the dissertation is planned. The examination pattern of Ph.D. course includes thesis evaluation and an open house Viva Voce examination. The progress of the research candidate is monitored by a Doctoral Committee convened and authorized by the respective supervisors. The entrance examination will be held in English.

Entrance Examination

The M.A. entrance examination will be based on OMR. The components of entrance examination question paper will be Comprehension 30 marks; Literary Passage 20 marks; Sociology 20 marks; Arithmetic & Reasoning 10 marks; and Current Affairs 20 marks.

Admission into the Ph.D. programmes is based on the performance of the candidates in the written test and interview. The candidates seeking admission to the Ph.D. programme must submit an outline of their research proposal bringing out specific theoretical and methodological approaches to be employed along with the application. Written test will be partly based on objective type OMR questions and partly on substantive writing. Written test examines candidate's knowledge of Sociological Theory and Methods. The qualified candidates will have to appear in the interview and answer questions on theory, methodology and area of research interest mentioned in the research proposal. Admitted Ph.D. candidates will be required to undertake course work.

Professors

Sasheej Hegde, Ph.D. (Bangalore) – Philosophy of Social Science, Social and Political Theory, Law and Ethics, and Indian Sociology/Historiography.

Aparna Rayaprol, Ph.D. (University of Pittsburgh) – Sociology of Gender, Indian Diaspora, Urban Sociology, and Qualitative Research Methods.

N. Purendra Prasad, Ph.D. (Hyderabad) – Agrarian Studies, Sociological Theory, Political Economy of Development and Health, Urban Studies

C. Raghava Reddy, Ph.D. (Hyderabad) – Science and Technology Studies, Sociology of Organisations, and Sociology of Disability. (**Head of the Department**).

Nagaraju Gundimeda, Ph.D. (Hyderabad) – Sociology of Education, and Information Technology and Society.

Pushpesh Kumar, Ph.D. (Jamia Millia Islamia) – Sociology of Gender and Sexuality, & Globalisation and Social Change.

Tanweer Fazal, Ph.D. (JNU) - Sociology of Nationalism & Minority Studies, Historical Sociology, Peace and Conflict Studies, Sociology of Wars, Violence and Reconciliation

L. Lam Khan Piang, Ph.D. (JNU) - Ethnicity, Identity, nation and nationalism, tribal studies, border studies, health system research, and Quantitative Techniques

Associate Professors

V. Janardhan, Ph.D. (Hyderabad) – Sociology of Industrial Relations, Corporate Business and Society, Sociology of Culture, Sociological Theory, Marxism and Capitalism, and Ethics and Society.

Satyapriya Rout, Ph.D. (Mysore) – Sociology of Environment, Natural Resource Management and Development, and Decentralized Governance.

Anurekha Chari Wagh, (Pune) - Sociology of Gender, Development studies, Agrarian studies, Citizenship lights and Teaching and Pedagogy

Assistant Professors

N. Annavaram, M.Phil. (JNU) – Indian Sociology and Classical Sociological Thought.

Hoineilhing Sitlhou, Ph.D. (JNU.) – Religion, Culture and Ethnicity Studies.

Nagalakshmi Chelluri, Ph.D. (Hyderabad) – Sociology of Organisations, Sociology of Science and Technology.

R. Thirunavukkarasu, Ph.D. (JNU.) – Political and Historical Sociology, Social Movements, Ethnicity, Nation and Nationalism.

Asima Jena, Ph.D. (Hyderabad) - Sexuality Studies, Sociology of Health, Sociology of Gender.

Interview weightages for Ph.D. course 2021

S.No.	Weightage being considered	Marks
1	Having Fellowship	05.00
2	Research proposal and interview	25.00
	Total:	30.00

The List of Ph.D. vacancies (2021-2022) and areas for supervision from the Department of Sociology.

Sl.No.	Faculty	Designation	Areas for Supervision (2019-2020)	Ph.D. Vacancies
1	Sasheej Hegde	Professor	Philosophy of Social Science, Social and Political Theory, Law and Ethics, and Indian Sociology/Historiography.	0
2	Aparna Rayaprol	Professor	Sociology of Gender, Indian Diaspora, Urban Sociology, and Qualitative Research Methods.	1
3	Purendra Prasad	Professor	Agrarian Studies, Sociological Theory, Political Economy of Development and Health, Urban Studies	1
4	C Raghava Reddy	Professor	Science and Technology Studies, Sociology of Organisations, and Sociology of Disability.	1
5	G Nagaraju	Professor	Sociology of Education, and Information Technology and Society.	1
6	Pushpesh Kumar	Professor	Sociology of Gender and Sexuality, & Globalisation and Social Change.	1
7	Tanweer Fazal	Professor	Sociology of Nationalism & Minority Studies, Historical Sociology, Peace and Conflict Studies	1

8	L.Lam khan Piang	Professor	Ethnicity, Identity, nation and nationalism, tribal studies, border studies, health system research, and Quantitative Techniques	1
9	V. Janardhan	Associate Professor	Sociology of Industrial Relations, Corporate Business and Society, Sociology of Culture, Sociological Theory, Marxism and Capitalism, and Ethics and Society.	1
10	Satyapriya Rout	Associate Professor	Sociology of Environment, Natural Resource Management and Development, and Decentralized Governance.	2
11	Anurekha Chari Wagh	Associate Professor	Sociology of Gender, Development studies, Agrarian studies, Citizenship lights and Teaching and Pedagogy	1
12	Hoineilhing Sitlhou	Assistant Professor	Religion, Culture and Ethnicity Studies	1
13	C. Nagalakshmi	Assistant Professor	Sociology of Organisations, Sociology of Science and Technology.	1
14	R.Thirunavukkarasu	Assistant Professor	Political and Historical Sociology, Social Movements, Ethnicity, Nation and Nationalism.	0
15	Asima Jena	Assistant Professor	Sexuality Studies, Sociology of Health, Sociology of Gender.	1
			Total	14

Department of Anthropology

The Department of Anthropology began functioning from the academic year 1988-89. Over the years the department has earned the reputation of being one of the best Departments in the country particularly for the faculty publications, extra mural research grants and academic outreach, besides the number of students qualifying in the National Eligibility Test (NET) and for research fellowships by UGC, ICMR, ICSSR and other bodies. The UGC has awarded Special Assistance Programme (SAP) first in the year 2011-12 and now the Department is awarded with the UGC-DRS (Departmental Research Support)- phase II. The Department imparts training in theoretical and applied research in Anthropology, which equips students to meet the academic challenges in urban/ rural/tribal field studies. Besides studying ethnographic diversity, the Department is oriented towards application of Anthropological knowledge to the understanding of social problems and development issues. The department has developed a

small museum as a teaching aid for students. The museum houses archaeological artefacts and cultural materials for research and learning. Practical training is imparted in Physical and Archaeological Anthropology courses.

Programmes of study:

The Department offers Master of Arts (M.A.) programme in Anthropology besides participating in the IMA (Social Sciences) programme coordinated by the College for Integrated Studies (CIS), University of Hyderabad. The M.A. course is a two-year programme and comprises of different courses under the pattern of Choice Based Credit System (CBCS) that has been adopted by the University as per the recommendations of the University Grants Commission (UGC), India. The total credit requirement for M.A is 80 credits of which the Department offers 28 credits under 'Foundation Courses', 16 credits under 'Core Electives', and 16 credits under 'Departmental Electives'. The 16 credits under 'Departmental Electives' can be earned by choosing any four courses of 4 credits each out of the 12 different courses that the Department may offer during the 3rd and 4th semesters of M.A programme. The courses under 'Departmental Electives' include: Development Anthropology, Ecological Anthropology, Medical Anthropology, Peasant Society, Economic Anthropology, Anthropology of Food, Anthropology of Communication, Anthropological Linguistics, Natural Resource Management and Livelihood Systems, Kinship and Marriage, Anthropology of Religion, Business Anthropology, Urban Anthropology, Anthropology of Public Policy and Environmental Anthropology. The students can however opt to do more than the required credits under the 'Audited courses', for which the students will be given certificates separately by the Head of the Department.

Submission of a dissertation to the Department, based on fieldwork, by the end of the 4th semester is a mandatory requirement to complete the M.A Programme. The student is expected to carry out about a month's field-based research assisted by the Department faculty at the end of the 3rd semester. The topics are decided in consultation with the Department faculty.

The Department offers seven courses including one compulsory course in the 2nd semester in the IMA (Social Sciences) program. These courses are: Introduction to Anthropology (2nd semester); Indian Civilization (3rd semester); Anthropology of Marginalized Communities (4th semester); Anthropological Theories of Human Society (5th semester); Prehistoric Cultures (5th semester); Anthropological Fieldwork (6th semester); and Approaches to Socio-Cultural Change (6th semester).

The Ph.D. programme offered by the Department is a full-fledged research programme on an approved research topic. Students who are admitted to Ph.D. programme are also required to do the course work prescribed by the department within the time prescribed by the University. The course work comprises of three courses including courses on Advanced Theories in Anthropology and Advanced Research Methods. The maximum period allowed for completion of Ph.D. programme is six years. However, the Research advisory committees appointed for each student admitted for Ph.D. programme will evaluate the progress of the work periodically and will recommend for semester registration only if the progress of the candidate is found

satisfactory even during the six years' time given to the students. The research students are expected to participate in all the seminars organized by the department to know the progress of work of each research student.

Faculty
(Areas of interest)

Professors

P. Venkata Rao, Ph.D. (Andhra) Anthropology of Development, Economic Anthropology, Tribal Studies, Complex Societies, and Ageing. **(Re-employed)**

B.V. Sharma, Ph.D. (Hyderabad) Medical Anthropology; Anthropology of Education; Community participation in Development. **(Head of the Department).**

M. Romesh Singh, Ph.D. (Hyderabad) Business Anthropology; Urban Anthropology, Anthropology of Development, and Tribal Development Studies.

Associate Professors

George Tharakan C, Ph.D. (Hyderabad) Kinship Studies, Theories of Culture, Indian Society, Anthropology of Food.

Assistant Professors

Shaik Abdul Munaf, M.Sc. (SVU) Archaeological Anthropology, Ethnoarchaeology, Indian Prehistory.

Apparao Thamminaina Ph.D. (Hyderabad). Ethnicity and Identity, Development, Globalization, Anthropology of Policy, Anthropological Theory, Urban Governance.

Alok K. Pandey, Ph.D. (Hyderabad) Environment and Development, Livelihoods, Pastoral and Nomadic Communities, Biodiversity Conservation, Mountain Regions.

Entrance Examination

The **M.A.** entrance examination will consist of 100 objective type questions of one mark each to be answered in an OMR sheet. The pattern of questions will be: a) General Studies / Knowledge b) Social Science Aptitude c) Language and Communication skills d) Comprehension and e) Test of Reasoning. **Part-A** of the question paper will have 25 questions of one mark each and a **negative mark of 0.33** for every wrong answer. **Part-B** will have 75 questions of one mark each and **negative mark of 0.33** for every wrong answer. The marks scored in **Part-A** will be considered only in case of any tie with other candidates.

Ph.D. entrance examination consists of **Part-A** and **Part-B**. **Part-A** will consist of 25 objective type questions of one mark each. **Part-B** will consist of 45 objective type questions carrying one mark for every right answer and no negative marks for the wrong answer. The objective type questions are to be answered in the OMR sheet provided. Candidates will be selected on the basis of performance in the written test and an interview (30 marks). The questions will be in

Social/Cultural Anthropology in the areas of: a) Anthropological Theories b) Research Methods (Quantitative and Qualitative) c) Indian Society d) Applied Anthropology and e) Tribal Ethnography/Indian Anthropologists. Candidates will be short listed based on their performance in the written test for the interview.

Evaluation criteria for Ph.D. admission is given below.

Sl. No.	Weightage being considered	Marks
1	Research Proposal	5
2	UGC-NET – JRF	6 (3+3)
3	UGC-NET Only/Other Fellowships	3
5	Publications (in UGC care listed journals)	4
5	Interview	12

Department of Education and Education Technology

The Department of Education and Education Technology strives to incorporate all elements of Educational Studies, from knowledge production to the preparation of teachers and teacher educators, to help improve the quality of school and higher education in the country. The department attempts to bridge the gap between the pedagogy and curriculum and the school and higher education institutions.

The department focuses on different areas relating to Curriculum and Pedagogical Studies, Teacher Education, Philosophy of education, Psychology of Education, Sociology of Education, History of Education, etc. The department also attempts to undertake Inservice Training of Teachers. The department will undertake research in the area of education taking into consideration the learners' perspective and use of technology in reaching education to all sections of the society.

The thrust areas of the faculty members broadly relate to Cognitive domain, Science education, Mathematics Education, Value education, Environmental education, Education technology, Social Science education, Educational Psychology, Constructivism, Curriculum Studies, Child rights in Education, Sociology of Education, Early Childhood Education, Demography of schooling, etc.

The Department offers Two-Year M.Ed. programme with an intake of 50 (Fifty) students and Ph.D. programme with an intake of 02 students for the academic year 2021-2022.

M.Ed is a broad based programme of study spread over 4 semesters that includes theory, practice, research, policy and planning in education. It aims to prepare the students with good understanding of education, capabilities for action and deep social commitment. M.Ed. is basically a professional programme which focuses on basic knowledge of theory and practice of educational thought and processes accumulated around the discipline of education. It encompasses a series of basic subjects which are designed in a way to cover basics of all the areas of education concern and many advanced courses in the areas demanding specialization on one or the other kind followed by Education Technology, Early Childhood Care and Education etc.

Programmes of Study

1. M.Ed
2. Ph.D in Education

M.Ed (Education)

M.Ed is a broad-based programme spread over 4 semesters that includes theory, practice, research, policy and planning in education. It aims to prepare the students with good understanding of education, capabilities for action and deep social commitment. M.A. Education is basically a theoretical programme which focuses on basic knowledge of theory and practice of educational thought and processes accumulated around the discipline of education. It encompasses a series of basic subjects which are designed in a way to cover basics of all the areas of education concerned and many advanced courses in areas demanding specialization on one or the other kind followed by Education Technology, Early Childhood Care and Education etc. Apart from specialization there are inter-disciplinary electives offered to the students of the department and other departments under the CBCS.

Curriculum Framework (Total 92 Credits)

T: Theory credits	P: Practicum credits
Core – 12	Field Engagement - 16
(Perspective Course,	(given at the end of each course)
Tool courses & Teacher Education Courses)	
Specialization – 1	Internship # - 4
Closed Electives - 2	Dissertation* - 8
Open Elective – 1	Total Credits for Practicum = 28
Total Credits for Theory = 64	

*Department shall offer a course on Dissertation with 2 credits in II semester and III semester followed by 4 credit courses on dissertation in IV semester. The students shall have to complete the dissertation before the IV semester.

The internship of 4 credits in two parts each is spread over two semesters. First part involves an attachment with a teacher education institution during I semester. The second part involves interns associating with a field site relevant to the area of specialization during the III semester. During the internship the students will be associated as interns in partner organization/schools/ teacher education institutions. The internship is a mentored component whereby a faculty and a member from the host institution/s (field mentor) together assess the field work of interns.

Note: The expenses to meet practicum will be borne by the students.

Ph.D Programme

The department also offers Ph.D (Education) programme. The programme requires mandatory course work (16 Credits) to be completed in the first 2 semesters.

Entrance Examination

M.Ed. Programme

Question paper of Entrance Examination consists of 100 marks divided into two parts viz., Part A and Part B.

Part A carries 25 marks. It has negative marks @ -0.25 for each incorrect answer.
Syllabus for Part A: Logical Reasoning, Current Affairs in Education and English Language Competencies.
Part B carries 75 marks
Syllabus for Part B: B.Ed. syllabus as per NCTE norms.

Ph.D in Education

The question paper for entrance examination consists of 70 marks in two sections, i.e., Part A and Part B. Part A- 35 marks will be on research methodology, nature & scope of research methods related to literature, methods of educational research and statistics in educational research at Post graduate level. Part B-35 marks will be on subject concerned, i.e., in the areas of Teacher education, Philosophy of Education, Psychology of Education, Sociology of Education, Educational Technology, Educational Administration and Management at PG level. The entrance test is followed by an interview, which carries 30 Marks.

Break-up of Interview marks for Ph.D program:

S.No	Weightage being considered	Marks
1	Research Proposal & Presentation	10
2	UGC-JRF/NET	5/3
3	Interview	15
	TOTAL	30

Faculty:

Professor

Dr.G. Bhuvaneswara Lakshmi, M.Sc (Botany), M.Ed, Ph.D- Science Education, Environmental Education, Value Education, Mathematics Education and Inclusive Education.

Associate Professor

Dr.J.V.Madhusudan, MPS,M.Ed, CIG, M.Phil, Ph.D- Demography of Schooling, Health Education and Early Childhood Care and Education.

Assistant Professors

Dr.Talla Sumalini, M.Com,M.A(Lit),M.Ed, UGC-NET(Ed) Ph.D(Edn). - Curriculum Studies, Experiential Learning, Work Education and Child Rights in Education.

Dr.Ravula Krishnaiah, M.A,M.A(Phil), M.Ed, M.Phil, SET(Ed), Ph.D – Philosophy of Education, Sociology of Education, Constructivism, Politics and Education and Yoga Education.

Dr.Geetha Gopinath, M.A, M.Sc(Psy), M.Ed, UGC-NET(Ed), Ph.D – Environmental Education, Social Science Education and Educational Psychology.

Dr.A.S.Jalandharachari, M.Sc (Applied Math), M.Ed, UGC-NET(Ed), Ph.D – Mathematics Education and Education Technology.

Centre for Regional Studies

The larger question(s) that scholars at CRS ask is – where, how, why and what social/ economic/ political processes over space/ region shape landscape mosaic? What makes region a significant category in understanding society? CRS is modelled as an interdisciplinary centre in the School of Social Sciences with region as the scale of investigation. A region may be further divided into sub-regions, which allows for focusing on particularities (or themes) of the sub-region. The themes may include: urbanization, industrialization, identity conflicts, marginalized regions and groups, political complexity, cultural moorings and impact on environment. While Regional Studies draws largely from the discipline of Geography, all social science disciplines are critical stake holders in its conceptualization and practice.

At CRS, students will familiarize themselves with a regional approach to examining socio-spatial transformations and begin synthesizing ideas from different disciplines in the social sciences. The Centre's training to students is from a spatial perspective, to offer a deeper understanding of differentiated social phenomena in their multi-dimensionality. Our request to each one of you is to join us in this endeavour at inter/multidisciplinary research, by not rejecting your parent discipline but trying to move beyond its set limits. Students from all social science disciplines/ background may join CRS. We encourage students to work on any research question/s within the present thrust areas of the Centre namely: Development, Urban issues, Environment, Disasters, Violence, Collective Identities and Tribal/ Adivasi issues.

The CRS aims at conducting multidisciplinary research in the Deccan and other regions of India. The envisaged research programmes encompass ecological and environmental studies; regional historical processes; regional social structure; regional economics and development studies. In view of the multidisciplinary nature of research, the Centre promotes studies in the fields of geography, cultural anthropology, sociology, economics, political science, and socioeconomic history of regions.

Programmes of study

The Centre for Regional Studies offers Ph.D. programme in the broad areas of research outlined above.

Faculty

Professor

Sheela Prasad, Ph.D. (JNU) – Urban and Regional Geography, Health, Environmental studies.

Associate Professor

Arvind S. Susarla, Ph.D. (Clark, USA) – Geography of Hazards and Disasters, Environmental Studies, Communicating Risks.

V. Srinivasa Rao, Ph.D. (Hyderabad) – Community Participation and Regional Education, Politics of Tribal Development, Regional Politics, Exclusion and Inclusion of Regions (Head of the Centre).

Assistant Professor

Salah P, Ph.D. (JNU) Postdoc (Max Planck Institute, Germany) – Sociology of Violence, Region and Collective Identities, Migration and Borderlands, Marginalized Communities

Entrance Examination specific information

The entrance test (written) for admission to Ph.D. programmes consists of two parts (Part-A and Part-B).

Part-A of the question paper consists of objective type questions to test the aptitude of the candidates to pursue research in the Centre. Questions will be on Social Science Research Methodology including quantitative methods, data interpretation, aptitude and logical reasoning.

Part-B consists of a single paper with essay questions drawn from the Social Sciences of the postgraduate level. In their answers, students are expected to demonstrate an understanding of multidisciplinary and / or regional studies.

Qualified candidates will have to appear in an Interview. Candidates have to bring a written research proposal for the interview and answer questions on theory, methodology and area of proposed research interest. Ph.D. candidates will be interviewed on the general area of specialization proposed and on their M.Phil. work if applicable. Course work (three courses) is compulsory for all Ph.D. students joining the Centre. There is an interview of 30 marks for shortlisted candidates.

Eligibility criteria of programmes of study

Ph.D.

M.A. in any Social Science discipline OR M.Sc. in Geography / Disaster Management/ Environment Studies with at least 55% marks or equivalent grade in the subject.

Eligible candidates with a willingness to work in the identified thrust areas of research at the Centre which include – Development, Urban & Regional issues, Environment, Disasters, Tribal Studies, Violence, and collective identities will be preferred. Course work is compulsory for all students in Ph.D. in the Centre. Note: Candidates should have an M.A. degree in English medium only.

Intake for the courses offered

Faculty Name	Designation	Areas of Research (2021-22)	Ph. D Vacancies
Prof. Sheela Prasad	Professor	Urban and Regional Geography Health and Environmental studies	Nil

Dr. Arvind S. Susarla	Associate Professor	Geography of Hazards and Disasters Environmental Studies Communicating Risks	1
Dr. V. Srinivasa Rao	Associate Professor	Tribal Studies Regional Education Politics of Tribal Development Exclusion and Inclusion of Regions	2
Dr. Salah P	Assistant Professor	Sociology of Violence Region and Collective Identities Migration and Borderlands Marginalized Communities	1
Total Vacancies in the Centre for 2021-2022			4

Break-up weightages for Ph.D. interviews

S. No.	Weightage being considered	Marks
1	UGC-JRF/ ICSSR-JRF/ M.Phil.	05
2	Interview (Research Proposal + Domain Knowledge)	25
Total interview marks		30

Centre for Folk Culture Studies

The Centre for Folk Culture Studies is the first of its kind in the Central University system in India and was established with the assistance of the Ford Foundation, USA. The Centre's interdisciplinary and multi-perspectival approaches emphasize research and teaching in Folk Culture Studies in the milieu of contemporary ethnographic fieldwork. To decode and explain the folk expressive forms, the Centre is adopting a research strategy that combines the methodological procedures and theoretical approaches of both humanities and social sciences. The main objectives of the Centre are: to study diverse aspects of folk expressive behaviour as a dialogue between human groups and their physical and social environments; to analyse culture in relation to various aspects of human creativity such as Science, Technology, Art, Religion, Literature etc; to document and utilize folklore genres and folk lifestyles of various cultural landscapes in order to cognate the native knowledge systems for sustainable development.

Programmes of Study

Ph.D (Folk Culture Studies)

The intake for 2021-22 is one seat.

Entrance examination

The question paper of Ph.D. will consist of 70 marks in two sections, as per the UGC Regulations. The Part A is Objective Type similar to UGC NET Exam for 35 marks and the Part B is Descriptive Type related to the Subject for 35 marks. Both sections will have questions on Research Methodology.

In addition, 30 marks for Interview to shortlisted candidates.

Weightage	Marks
Research Proposal and its defence	5
Performance in the Written Test (proportionate)	5
Having fellowship - JRF /M.Phil	5
Publications	3
Research Experience	2
Interview Performance	10
Total (Total break up of weightages for Ph.D Interviews) (20+10 marks)	30

Faculty

Professor

Y.A. Sudhakar Reddy, Ph.D. (I.I.T., Madras) – Folklore and Folk Culture Studies, Performance Studies, Hermeneutics, Narratology, Peasant Studies and Oral History. (Head of the Centre)

Associate Professor

Joly Puthussery, Ph.D. (Hyderabad) – Folk Theatre, Performance Theory, Public Performance and Discourse, Religion and Theatrical Practices, and Material Culture.

Assistant Professor

N. Naveen Kumar, M.S.W. (Bharathiar), M.A. (Annamalai) - Folklore

Honorary Professor

P.S. Kanaka Durga, Ph.D. (Acharya Nagarjuna) - Folklife Studies, Folklore and Gender Studies, Religion and Mythology, Ethnohistory and Epigraphy.

Centre for the Study of Social Exclusion & Inclusive Policy (CSSEIP)

The Centre for the Study of Social Exclusion and Inclusive Policy was established in 2007 with UGC funding. The Centre has been set up for undertaking comprehensive research on Social Exclusion as a complex and multidimensional concept with social, cultural, political and economic ramifications. The Centre focuses on exploring the processes that produce social exclusion. The studies on historical processes of exclusion and the methodological aspects have been the mainstay of the Centre. This encompasses all forms of discrimination which operate in covert and overt manner on the basis of caste, gender, ethnicity, religious and linguistics minorities, and other excluded groups such as the disabled. The Centre, through its research programmes, strives to intervene in policy processes to mitigate the problems of social exclusion and help build the democratic processes. The Centre has the following objectives-

a. To understand the dynamics of discrimination and exclusion.
b. To focus on multidisciplinary approach to analyse the processes of exclusion.
c. To work on theoretical and empirical dimensions of exclusion.
d. To provide critical inputs for the inclusive policy.

Programmes of Study

The Centre has adopted a multi-disciplinary approach. It offers **Ph.D.** programmes in the broad areas of research outlined in the objectives.

Entrance Examination

Ph.D.

The question paper of Ph.D courses shall consist of 70 marks in two sections, as per the UGC Regulations 2016. Part A – 35 marks, will be on Research Methodology and broadly will be as follows:
Research Methodology: Data collection process; interviews, surveys, quantitative & qualitative methods, data interpretation; aptitude and logical reasoning. This part of the Entrance test be on the lines of Paper-I/Part-I of the UGC/CBSE/CSIR JRF exam.
Part B: 35 marks, will be on subject concerned.
In addition, there is an **Interview for 30 marks** for shortlisted candidates.

Break-up weightages for Ph.D. interviews:

a). Interview – 15 marks,
b). UGC-JRF/RGNF/ICHR/ICSSR/Maulana Azad Scholarship – 10 marks
c). M.Phil awarded/Only NET – 5 marks.

Faculty

Professor(s):

Ajailiu Niumai, Ph.D. (JNU) - Gender, Non-Governmental Organizations (NGOs) and Development, North East Studies and Diaspora and Philanthropy.(Head of the Centre)
K. Raja Mohan Rao, Ph.D. (Sri Krishnadevaraya) – Development Economics, Rural Development and Social Exclusion Studies

Associate Professor

Sreepati Ramudu, Ph.D. (Jamia Milia Islamia) - Dalit Studies, Caste, Public Policy, Child Labour and Social Movements.

Assistant Professor

J. Rani Ratna Prabha, Ph.D. (UoHyderabad) - Child Labour & education, Health, Poverty, Gender and Economics of Exclusion.

Centre for the Study of Indian Diaspora

The Centre for the Study of Indian Diaspora was established under the Area Studies Program of the U.G.C. in 1996 to carry out interdisciplinary research on overseas Indians who today

constitutes more than 30 million spread over hundred countries around the world. The Centre envisages research on the historical context of the Indian Diaspora, civilizational heritage of diasporic communities, continuities and transformation in culture, economy and political life, besides promoting communication and linkages between India and the Indian diaspora.

Objectives

The Centre through its special program addresses the following issues in the study of Indian diaspora:

- The process of emigration, settlement and identity formation in host societies.
- Ethnicity of Indian diasporic communities in relation to the changing power structures, under which ethnic identity is an integrating or divisive force.
- Transnational networks and linkages between India and the Indian diaspora, and between diasporic communities.
- Indian diaspora in relation to the on-going struggles for identity at the national and global level, and in relation to increasing ethnic consciousness in India.
- Comparative studies of creative writings on the Indian diaspora by the Indian writers, diasporic Indian writers and non-Indian writers. Research into the new cultural forms of the Indian diaspora, including popular culture.
- Micro-level ethnographic studies on the Indian diaspora.
- Contributions of the Indian diaspora to the scientific, technological, administrative and industrial development in host societies.

Faculty

ASSOCIATE PROFESSOR

Ajaya Kumar Sahoo, Ph.D. (Hyderabad) – International Migration, Diaspora, Transnationalism, Religion, Ageing and Social Movements

Programme of Study:

The Centre offers interdisciplinary courses on Indian Diaspora at the M.A. level besides and Ph.D. programmes on Indian diaspora.

The Centre offers Doctoral Programme in Indian Diaspora as per the UGC norms. Research students will be required to complete course work before taking up their research work. The intake of the students will change every academic year as per the vacancies available with the faculty. The duration of the curse is as per the University academic guidelines. The entrance test (written) for admission to Ph.D. programme consist of two parts. Part-A of the question paper will consist of objective type questions to examine the aptitude of the candidates to pursue the research programmes in the Centre. Part-B will consist of essay type questions related to the subject of study at the post graduate level. Ph.D. candidates will be interviewed on the general area of specialization proposed by the student and their M.Phil thesis, if any. The student seeking admission to the Ph.D. programme must submit with their applications an

outline of their research proposal, bringing out specific theoretical and methodological approaches to be employed.

Note: There will be no admission in Ph.D for the academic year 2021-22 since there are no vacancies.

Centre for Women's Studies:

The Centre for Women's Studies (CWS), at the University of Hyderabad is an interdisciplinary Centre collaborating with faculty from different disciplines. The University of Hyderabad had a Women's Studies Cell established in 1984, alternatively located in the School of Social Sciences and the School of Humanities. This Cell was upgraded to a Centre in June 2007. It was a standalone Centre until it was affiliated to the School of Social Sciences in March, 2014 as a statutory Centre of the University.

Aims and Objectives:

- Actively coordinate courses on gender and women in different departments, and introduce fresh areas of gender research.
- Build a systematic database on gender issues.
- Mainstream gender issues in teaching and research.
- Facilitate gender analysis on critical issues

Areas of Research:

Feminist Theory, Gender and Health, Gender and Environment, Dalit and Subaltern movements, Feminist Research Methodology, Gender and Culture, Gender and Religion, Media, Representation, Sexuality Studies, Gender and Violence, Gender and Reproductive Studies, Globalisation, Gender and Science.

Programmes of Study

The Centre offers MA and Ph.D. Programmes in Gender Studies.

Ph.D

The eligibility criterion for admission into Ph.D. Programme in Gender Studies is a Master's degree with 55 % marks in any discipline in Social Sciences and Humanities or a Master's degree with 55 % marks in Women's/Gender Studies.

Entrance Examination

The entrance examination for admission into Ph.D. programme in Gender Studies evaluates the candidates on the basis of their understanding of gender studies, their knowledge in the domain, their research aptitude and analytical and writing skills.

The question paper of Ph.D. course shall consist of 70 marks in two sections, as per the UGC Regulations 2016.

Part A: 35 marks will be on Research Methodology and broadly will be as follows: Research Methodology: "The process used to collect information and data for the purpose of making decisions. The methodology may include publication research, interviews, surveys and other research techniques, and could include both present and historical information". Besides including Quantitative methods, Data interpretation, Aptitude and Logical Reasoning.

This part of the Entrance Test be in the lines of Paper-I/Part-I of the UGC-CBSE/CSIR JRF exam.

Part B: 35 marks will be on gender/women's studies.

Candidates who are selected on the basis of the written examination will have to appear for an interview for 30 marks. A research proposal has to be submitted at the time of the Interview.

Ph.D. scholars will have to do four courses of four credits each over two semesters.

M.A

Entrance Examination

The entrance examination will be for 100 marks. It will consist of 100 multiple choice questions of one mark each, no negative marking.. The following is the pattern of the question paper.

S.No.	Subject	Marks
I	Comprehension	20
II	Concepts related to Gender	20
III	Reasoning and Interpretation related to Gender	20
IV	Gender Awareness	20
V	Contemporary Gender issues	20
Total Marks		**100**

Faculty

Professor

K. Suneetha Rani, Ph.D. (Hyderabad) (**Head of the Department**)

Specialisation: Gender Studies, New Literatures in English, Cultural Studies, Comparative Studies, Translation Studies. (Head)

Associate Professor

Deepa Sreenivas, Ph.D. (EFLU, Hyderabad)

Specialisation: Cultural Studies, Feminist Pedagogy, Childhood Studies.

Dr. Sheela Suryanarayanan, Ph.D (QUT, Brisbane, Australia)

Specialisation: Reproductive Health, Gender, Development and Environment, Assisted Reproductive Technologies. In concepts: Transnational Feminism, Intersectionality and Agency

SCHOOL OF ECONOMICS

The School offers programmes of study leading to **M.A.**, and **Ph.D.** degrees. Among the PG programmes, the School offers M.A. and I.M.A (5-year Integrated) in Economics as well as M.A. and M.A (5-year Integrated) in Financial Economics. The School offers well-balanced courses of study at all levels incorporating economic theory, quantitative and statistical analysis, political economy and Indian Economic Problems. The School has currently 18 faculty members engaged in theoretical and empirical research in several areas of contemporary relevance. It was initially established as the Department of Economics and subsequently, it was elevated as a School in 2012. At present the School has about 300 post-graduate and research students.
Prof. R.V.Ramana Murthy is the Dean of the School.

Programmes of Study

MA (Economics)

The M.A. programme in Economics has been designed to expose the students to mainstream and heterodox approaches in theory, tools and techniques. The programme equips the students with analytical skills to engage with conceptual and empirical dimensions of the economy, policy, polity and society. Besides the standard courses like microeconomics, macroeconomics, trade, growth, public finance and econometrics, the core courses also include classical political economy and political economy of development, which makes it a well rounded programme. The programme also offers a range of optional courses that enable the student to acquire specialised knowledge in specific theoretical and applied branches of economics, like New Institutional Economics, Law and Economics, Social Choice Theory, Game Theory, Capital Theory, Development Economics, Economics of Education, Economics of Discrimination, Health Economics, Public Policy, Transitional Economics, Urban & Transport Economics, Natural Resource and Environmental Economics, Labour Economics, Financial Economics, Financial Econometrics, Time Series, and so on. This programme is divided into four semesters, in which they have to do 10 compulsory and six optional courses in addition to two foundation courses. Knowledge of high school level mathematics is expected from the prospective candidates as a minimum qualification, as several courses have mathematical orientation.

MA (Financial Economics)

The M.A. Programme in Financial Economics has been designed to expose the students to alternative paradigms of economic and financial theories and of global financial markets. The students would also be equipped with necessary analytical tools and techniques by way of an in depth training in econometric and time series techniques, and other quantitative methods. The focus of the training would be on practical applications and hands-on experience through assignments and projects, to enable them to competently analyse the market trends, and handle big data sets to aid the decision making process. Keeping these objectives in mind, the two-year programme offers a judicious mix of core and electives along with a project to be submitted at the end of the programme. Internships with industry, banks and financial institutions would be an integral part of the programme.

IMA (Economics)

I.M.A. (5-Year Integrated) programme consists of a component that is common to all the social sciences during the first three years. The students are admitted through an entrance test common to all social sciences. The students spend the first three years of study at the College for Integrated Studies, after which they branch out to the respective allotted discipline. The final two years of the I.M.A. (5-Year Integrated) in Economics programme are common with the M.A. Economics programme or with M.A. Financial Economics programme allotted as per their choice at the end of three years. Further details about the programme and entrance test can be found under College for Integrated Studies in this Prospectus.

Ph.D (Economics)

Ph.D. programme consists mainly of research work leading to a thesis on an approved topic. The thesis will be of a high standard seen as a contribution to knowledge and will be defended in an open viva-voce examination. Ph.D. programme requires course work of about 12 credits, which includes Research Methodology as a compulsory course. The course work must be completed within the first year of the Ph.D. programme.

Entrance Examination

MA (Economics)

The Entrance Examination for M.A. in Economics consists of only objective type questions. The test is designed to examine/evaluate the candidates' general aptitude (including quantitative ability) and understanding of economics at the bachelor's level. The test is of TWO hours duration and consists of 100 multiple choice questions. The broad syllabus for the entrance test of M.A. in Economics covers (at undergraduate level): Microeconomic Theory, Macroeconomic Theory, International Economics, Public Finance, Basic Mathematics, Basic Statistics, Economic Development and Indian Economy.

MA (Financial Economics)

There is a separate test for M.A. in Financial Economics. The modalities and syllabus for the entrance examination for this programme are the same as for the entrance test for M.A. in Economics.

Entrance test details for the I.M.A. (5-Year Integrated) programme are given under the College for Integrated Studies

Ph.D.

The entrance test for Ph.D. programmes consists of a written test for 70 marks and interview for 30 marks.

The written test is for 70 marks and consists of two sections, as per the UGC Regulations 2016.
Part A – (35 marks) will be on Research Methodology including questions based on research methods, types of research, quantitative methods (mathematical, statistical, econometric), data interpretation, aptitude and logical reasoning. Part B – (35 marks) includes postgraduate level

questions pertaining to core economics subjects such as microeconomics, macroeconomics, public finance, trade, growth, political economy, Indian economy; quantitative subjects such as basic mathematics, statistics, econometrics; a few questions from specialized areas of economics such as labour, health, finance, environmental etc.; and general economics awareness.

In addition there is an interview for 30 marks for the shortlisted candidates. Candidates called for an interview for Ph.D. programme must come prepared with a research proposal to be submitted at the time of Interview.

Ph.D Vacancies available

Ph.D. admissions are based on vacancies available with the faculty as provided below:

Sl.No.	Faculty Name	Desgn.	Areas of research (2020-21)	Ph. D Vacancies
1.	Prof. G. Omkarnath	Professor	Classical Economic Theory, Capital Theory, Indian Economy, Teaching of Economics.	--
2.	Prof. Naresh Kumar Sharma	Professor	Economic Theory, Gandhian Economic Thought, Development, Agriculture, Money & Finance.	--
4.	Prof. R.V. Ramana Murthy	Professor	Agrarian Relations, Political Economy, Macro-economics, Heterodox Economics	0
5.	Prof. R. Vijay	Professor	Political Economy, Development Economics, New Institutional Economics	1
7.	Prof. Debashis Acharya	Professor	Macro-Monetary Economics, Financial Economics.	
9.	Prof. N.A. Khan	Professor	Public Economics, International Trade, Infrastructure Economics, Macroeconomics, Islamic Banking.	--
10.	Prof. B. Nagarjuna	Professor	Industrial Economics, Transitional Economics, International Finance and Indian Economy.	0
11.	Prof. Phanindra Goyari	Professor	Econometrics,	--

			Mathematical Economics, Model Building & Simulation in Economics, Microeconomics, Agricultural Economics, Economic Growth and Development	
13	Dr. G. Sridevi	Associate Professor	Food Security, Health Care, Economics of Discrimination.	1
14	Dr. Alok Kumar Mishra	Associate Professor	Macroeconomic Dynamics, Financial Economics, Urban and Transport Economics.	--
	Dr G vijay	Asst Professor	Lab	1
18	Dr. B. Nageswara Rao	Assistant Professor	Tribal Development, Economic History, Agricultural Economics.	0
19.	Dr Pragna Mishra	Asst Professor	Environmental Economics	2
20	Dr Motilal Bichal	Asst Professor	Monetary Economics	0
21.	Dr Ch Krishna Reddy	Asst. Professor		0
Total				5
S.No.	Weightage being considered			Ph.D.
1.	Interview component			30
	Total			30

Faculty

Professors

Naresh Kumar Sharma, Ph.D. (ISI, Delhi) – Economic Theory, Gandhian Economic Thought, Development, Agriculture, Money & Finance.

R.V. Ramana Murthy, Ph.D. (UoH) – Agrarian Relations, Political Economy, Macroeconomics, Heterodox Economics.

R. Vijay, Ph.D. (UoH) – Political Economy, Development Economics, New Institutional Economics.

Debashis Acharya, Ph.D. (UoH) – Macro-Monetary Economics, Financial Economics.

K. Laxminarayana, Ph.D. (UoH) – Economics of Education, Political Economy of Development, Agricultural Economics, Indian Political Economy of Class and Caste.

Nasir Ahmed Khan, Ph.D. (Allahabad) – Public Economics, International Trade, Infrastructure Economics, Macroeconomics, Islamic Banking.

Boppana Nagarjuna, Ph.D. (UoH) – Industrial Economics, Transitional Economics, International Finance and Indian Economy.

Phanindra Goyari, M.Phil. (IGIDR, Mumbai), Ph.D. (UoH) – Econometrics, Mathematical Economics, Model Building & Simulation in Economics, Microeconomics, Agricultural Economics, Economic Growth and Development.

S. Raja Sethu Durai, Ph.D. (University of Madras) – Macroeconomics, Applied Econometrics, Financial Economics.

Associate Professors

G. Sridevi, Ph.D. (Institute of Social and Economic Change, Bangalore) – Food Security, Health Care, Economics of Discrimination.

Alok Kumar Mishra, Ph.D. (UoH) – Macroeconomic Dynamics, Financial Economics, Urban and Transport Economics.

Assistant Professors

G. Vijay, Ph.D. (Institute of Social Studies, The Hague) – Labor Economics, Environmental Economics, Economics of Business Organizations, Law and Economics, Political Economy.

Limakumba Walling, M.A. (UoH) – Macroeconomics, Political Economy, Economics of Competition.

Prajna Paramita Mishra, Ph.D. (UoH) – Environmental and Natural Resource Economics.

B. Nageswara Rao, Ph.D. (UoH) – Tribal Development, Economic History, Agricultural Economics.

K. Ramachandra Rao, Ph.D. (Andhra) – Urban Economics, Health Economics.

Krishna Reddy Chittedi, Ph.D. (CDS-JNU) – Macroeconomics, Financial Economics, Developmental Issues.

Motilal Bicchal, Ph.D. (UoH) –-Monetary Economics, Macroeconomics.

Other Professors

Prasanna Kumar Mohanty, Ph.D. (Boston, USA), Post-Doc (Harvard, USA), MA-Economics, Delhi School of Economics, MA-Political Economy, Boston University – Land, Transport, Urban and Housing Economics; Public Finance. Chair Professor.

B. Kamaiah, Ph.D. (IIT, Bombay) – Macro-Monetary Economics, Financial Economics. Emeritus Professor.

SAROJINI NAIDU SCHOOL OF ARTS AND COMMUNICATION

The Sarojini Naidu School of Arts and Communication started functioning from 1988-89 and offers Masters-level courses in Dance, Theatre Arts, Fine Arts, and Communication and Doctoral (PhD) programmes in Communication, Theatre Arts, and Dance.
The University is indebted to the family of Sarojini Naidu for the bequest by the late Padmaja Naidu of the 'Golden Threshold', where the University started functioning. In recognition of this gesture, the University started this School by naming it after Sarojini Naidu to offer post-graduate and research programmes in the fields of arts and culture.
The School provides courses of study in the Departments of Dance, Theatre Arts, Fine Arts, Music and Communication.

The broad objective of the teaching programme is not only to explore the evolution and forms of arts, but also to bring about an integrated approach to the study of creativity. Apart from the core Faculty, experts in various fields and Guest Faculty of national and international repute teach courses in the School.
Prof. Vasuki Belavadi, Department of Communication is the Dean of the School.

Department of Dance

The dance department has been one of the first attempts to adapt traditional systems of training in classical dance styles of Kuchipudi and Bharatanatyam for postgraduate studies at the university level, providing opportunity for students to sharpen their technique and craft, analyze classical dance forms through closer study of aesthetic theories expounded in ancient Sanskrit texts, and made critical interventions in bridging gap between theory and practice.

The Department of Dance conducts advanced training in dance, particularly classical Indian dances both in theoretical and practical aspects. As one of the pioneering University bodies to adapt classical dance studies to a modern university approach, department of dance has been progressing in envisioning and executing innovative ideas in classical dance practice in all its various professional aspects such as choreography, stage presentation in all its component aspects, *rasaabhinaya*, dance music composition, art management and digital arts, international understanding of Indian classical dance, dance history, natyasastra, dance appreciation and dance research.

Programmes of Study

MPA (Dance) (Kuchipudi & Bharatanatyam)

The Masters in Performing Arts (Dance) course is a full time two years and it is very rigorous. The course is well-balanced in terms of theory and practice and the course spread over four semesters in two years; the course structure provides scope to enhance scholarship, practical and theoretical understanding of dance forms, and initiate students into research and teaching.

Significant emphasis is given to research orientation to train interested students towards research right from the postgraduate level, through a course on research methodology and dissertation project as part of their MPA programme. Students will be given the opportunity to enhance their performance skill through the department's production. Frequent workshops are organized with artistes and experts of national and international repute.

The programme offers a holistic training which helps in the exploration of not only performative and academic areas of the field but also the allied arts. The students strengthen their skills in performance, choreography, applied theory, analysis, designing of dance music, stage décor, stagecraft, lighting, costumes, production and organizational strategies. The course structure enables the master aspirants to become an independent performer / choreographer / teacher / nattuvanar / music composer/ researcher/ dance critique and production designer towards the completion of their Master's degree. This is one of the most unique and innovative programmes offered in dance academia.

Ph.D. (Dance)

The doctoral programme offers scope for students and scholars to specialize in chosen minute niche fields of dance. The programme aims at creating a new knowledge in Indian Classical Dance understanding compatible with global scientific understanding of performing arts in their practice, theory, social relevance, heritage value, cultural significance etc., Incorporating all the relevant methodological tools such as qualitative research, performances theory, ethnography, performance documentation etc., from suitable disciplines such as cultural anthropology, history, art history, management etc., the programme helps the society acquire scientific, socially and culturally relevant understanding of Indian Classical Dances.

Entrance examination

MPA (Dance)

Admission is through an entrance examination consisting of a combination of objective (25 marks) and essay-type questions (25 marks) on subjects related to the specific field of study i.e., Dance. There would be a common question paper for both specializations. Those selected in the entrance examination will then be called for a practical test for (50 marks) before final selection.

Candidates are required to indicate in the application their preference of specialization in order of priority. Based on the prerequisite experience and the candidate's performance in the admission test and viva, the Department shall assign specialization streams to each of the selected students.

Ph.D (Dance)

For Ph.D. the written test is for 70 marks and Viva voce for 30 marks.
The question paper of Ph.D. course shall consist of 70 marks in two sections, as per the UGC Regulations 2016.

Part A – 35 marks will be on Research Methodology and broadly will be as follows:

Research Methodology: Data collection process, publication research, interviews, surveys, historical research, quantitative methods, data interpretation; aptitude and logical reasoning.
This part of the Entrance Test will be on the lines of Paper-I/Part-I of the UGC-CBSE/CSIR JRF exam.

Part B: 35 marks will be on subject concerned.

In addition, there is an Interview for 30 marks for shortlisted candidates.

Break-up weightages for Ph.D. interviews for 30 Marks

Fellowship (JRF)	Proposal defense	Interview	Total Marks
5 marks	5 Marks	20 Marks	30

Faculty

Professors

Anuradha. J, Ph.D. (Dance) (Hyderabad) – Theoretical Aspects and Kinesthetics of Dance, Kuchipudi Practical and Choreography.

Pasumarthy Ramalinga Sastry, Diploma (Kalakshetra, Chennai) – Bharatanatyam - Practical, Theory, Choreography

M.S. Siva Raju, Ph.D. (Dance) (Hyderabad) – Comparative Dance Studies, Musical Aspects of Dance, Movement for Dance and Choreography.

G. Aruna Bhikshu, Ph.D. (Dance) (Hyderabad) – Applied Theory and Dance Studies, Abhinaya (Head of the Department)

Visiting Faculty

C.V. Chandrasekhar
Sunil Kothari
Chitra Vishweswaran
Pappu Venugopala Rao
KalaKrishna
Harimohan Paruvu
Shashidhar Acharya
Gunakar Dev Goswami
Shama Bhate

M.P.A (Theatre Arts)

The Masters in Performing Arts programme is a rigorous, full time three-year course. This course trains the students in the practical and theoretical work so that they understand and practice

theatre as a unique form of artistic communication. The core components are designed to provide hands-on experience of all the areas of theatrical communication and their possible application in different contexts. The theory courses teach the students to look at the history of theatre practice from multiple perspectives-like the literary, socio-economic, political, philosophical, etc. The course content covers both Western and Indian Drama and theatre. It also provides understanding of theatre in relation to other forms of artistic expression-like painting, sculpture, music, cinema, etc. The course tries to encompass the whole spectrum, from classical to contemporary, traditional to commercial, and folk to the digital. Here is a brief outline of the course components, spread over the three years of study:

Theory Courses:

Arts, Aesthetics and Society
Dramatic Literature & Play Analysis
Theatre Aesthetics
History of Modern Theatre
20th Century Theatre & Performance
Indian Drama and Performance in Contemporary Context

- To understand different forms of artistic expressions, their processes, contexts, grammar and to relate them with theatrical expressions.
- Significance and multiplicity of theatre activities and their relationship to their contemporary history and culture.
- How different theatre forms struggle for space within the same period and culture.

Production of Plays

Full length Production Process:

Play productions (One per year)

- Different stages of production process from an idea/theme/text to a concrete theatrical expression.
- Working with experienced and professional directors on different kinds of plays. To understand different ways of interpreting and producing professional performances.

Design/Technology/Direction:

Basics of Design

Theory and Practices of Scenography
Theory and Practice of Direction

Design and Direction:

- Hands-on training in design skills and to understand their function in the total performance structure in organic relation to other components.
- Working with new materials and techniques to explore new avenues in contemporary performance.

ACTING:

Styles of Acting

Acting in Play Productions (Classical/ traditional/ folk/ Modern Western/ Modern Indian contemporary approaches to Acting)

- The basic elements of acting, stage presence and theatrical communication. To be able to follow direction and execute the director's interpretation of the text, to design one's acting in relation to other elements of design.
- Skills and possibilities of improvisations, different approaches to and styles of acting through a series of scene-works and productions.

Theatre & Performance in New Contexts
Community Theatre or Applied Theatre
Children's Theatre & Puppet Theatre
Theatre Management

- Using the skills of theatre practice in different contexts like Community theatre, Children's theatre, event management etc.
- To visualize and prepare professional theatre projects with a clear understanding of the budget, work division, human and financial resource management, presentation and marketing.

There is an exit clause at the end of the first year. Students, who have successfully completed the first year and do not wish to take advantage of the more in-depth training provided during the next two years can leave the course with a P.G. Diploma in Theatre Arts. Promotion into the second year, apart from the desire of the student, is subject to satisfactory performance and successful completion of the first year of study. The performance of the student will be assessed on the basis of regular attendance, motivation and active participation in the studies and practical work, co-operation and co-ordination with fellow students as well as securing the necessary minimum marks in written and practical exams.

Entrance Examination and interview:

Any graduate with an aptitude for theatre can apply for the M.P.A. Course. Experience in theatre or any performing art will be an added advantage. Eligible candidates are required to write an entrance examination of two-hour duration, consisting of objective type questions on areas related to theatre and culture. Those qualified in the written test will be called for an audition/interview at the University, where they need to write descriptive and analytical essay as one of the given topics to their experience in theatre.

For the audition/interview, candidates are expected to come prepared to discuss a full length play of their choice and also perform a dramatic passage from a play of their choice in a language of their choice.

Candidates who fail in the audition/interview cannot be selected irrespective of the marks secured in the written exam. Any additional talents like music, dance, martial arts, drawing etc., will be added advantage.

Ph.D. Programme in Theatre Arts:

The focus of Doctoral program in Theatre Arts is to generate a knowledge-base in the area of Performance research and practice of theatre. Performance is seen as an inclusive filed encompassing all the genres of performance from traditional to contemporary, and explored in the backdrop of constituent and frontier domains like history, language, literature, anthropology, cultural studies, folklore, music and management in the social and historical context. A flexible interdisciplinary framework is followed to enable researchers to carry out work in the area of performance studies. To bridge the domains of practice and research, practice as Research in Performance is encouraged.

Those who found eligible has to write the entrance test with maximum marks of 70 for two sections:
Section. A: will be to test the candidate's attitude for performance/theatre research and
Section. B: will be for the candidate's overall knowledge proficiency in the area of performance/ theatre scholarship. Section.B will be having questions directed to descriptive answers.

Faculty:

Professors:

B. Ananthakrishnan, Ph.D (Madras)-Performance Studies, Production Process (Head of the Department).

Satyabrata Rout, M.A (National School of Drama), Ph.D (C.C.S. University, Meerut University) – Scenography and Direction: Theory and Practices

N. Jnaneswara Bhikshu, Ph.D (Hyderabad)-Indian Drama and Theatre (Classical), History, Theory, Text (Western)

Associate Professors:

Rajiv Velicheti, M.A. in Dramatic Arts (National School of Drama) – Theatre History, Acting and Direction

Noushad Mohammad, M.A. (National School of Drama), Adv. Diploma in Actor Training (TTRP, Singapore) – Acting.

Kanhaiya Lal Kaithwas, M.A. (National School of Drama) Design and Theatre Craft

Assistant Professor:

Riken Ngomle, M.A. (National School of Drama), Advance Course in Acting, Grotowsky Institute, Wroclaw, Poland- Acting.

Department of Fine Arts

The Department of Fine Arts was established in 1988 at the University of Hyderabad alongside the Departments of Dance, Theater and Communication to form the Sarojini Naidu School of Arts and Communication. The aim was to bring various artistic practices within a broader academic program, to interrogate more systematically, the communicative aspects of the aesthetic traditions, and the aesthetic dimensions of communication systems.

The Department of Fine Arts was established under the stewardship of eminent artists Laxma Goud, DLN Reddy, R S Shamsunder, and other young faculty, and has developed into a premier Art School in the country. The pedagogical commitment has been to provide a safe space for a serious art practice that can be freely carried out in a supportive, challenging and enriching environment. The increasing visibility, and growing list of achievements of our alumni in the world of Contemporary Indian Art are testimony to the pedagogical successes of our school.

Programs of Study

The Department of Fine Arts offers two-year, terminal MFA degree courses in the disciplines of Painting, Sculpture, Print Making, and Art History and Visual Culture Studies. Our academic programs are designed to integrate the practice of Fine Arts with a strong understanding of the social, economic, and intellectual histories of art traditions from around the world. Our students are encouraged to understand the roots and intentions that fuel their own artistic trajectories, while simultaneously situating their work amidst the larger context of the debates in art traditions from around the world. Students from the practical disciplines are encouraged to explore the world of books, reading, writing and research. Conversely, it is mandatory for students from the theory disciplines to work in the studios, so to grapple with the pleasures and challenges of converting inert, obdurate, physical materials into living works of art. The students of the Practical streams (Painting, Sculpture and Print Making) submit a dissertation on their own work, while students of the Art History and Visual Studies discipline submit a dissertation on a topic of their choice, subject to the approval of the concerned faculty.

Instruction in the Department is essentially tutorial in nature, it involves a close working relationship between the faculty and students. The academic curriculum is strengthened and complemented by incorporating workshops by eminent visiting artists, artist camps, conferences and lectures by distinguished scholars on a regular basis.

Faculty

B V Suresh
Head of the Department
Professor in Painting

Alex Mathew
Associate Professor in Sculpture

L N V Srinivas
Associate Professor in Painting

Dr. Kirtana Thangavelu
Associate Professor in Art History & Visual Studies

Suneel Mamadapur
Associate Professor in Printmaking

Dr. Baishali Ghosh
Assistant Professor in Art History & Visual Studies

Tanmay Santra
Assistant Professor in Painting

Essential Criteria for Admission to the MFA Programs in the Department of Fine Arts

1. Essential Criteria for MFA in Painting, Print Making and Sculpture

Requirement is a Bachelor Degree in Fine Arts : BFA/BVA/BA (Fine)

2. Essential Criteria for MFA in Art History and Visual Studies

Bachelor Degree in Fine Arts: BFA/BVA/BA (Fine).

Candidates with degrees from related disciplines like History, Sociology, Literature and Anthropology may also be considered, provided they demonstrate evidence of aptitude in Art History, capacity to read visual images, and demonstrate adequate knowledge of contemporary artistic practices. Students must provide evidence of training or practice in visual arts at the time of the oral interview by bringing sketchbooks, art works or photographs of their original art works.

Essential requirements at the time of Application for MFA in Painting/Sculpture/Print Making:

Applicants must specify the stream (Painting/Printmaking/Sculpture) on priority basis on which they wish to apply to the Department of Fine Arts.

However, based on an evaluation of the portfolio, campus interview and photographs of works submitted, and availability of seats within a discipline, the Selection Committee of the Department of Fine Arts reserves the right to allot the stream on which the student may be admitted to the Department.

At the time of application. in addition to the online registration form sent to the University of Hyderabad, each applicant must also submit a hard copy of the online application along with 15 attested photographs (8”x10”) of recent works in a sealed envelope.

- A responsible faculty member of the Fine Art College/Institute **must attest and verify the** photographs of art works from where the applicant received his/her BFA/BVA/BA (Fine) degree.

- The student must specify the choice of stream/discipline on priority basis on the envelope.

The sealed envelope containing the 15 photographs of recent must be mailed to the Department with the following information:

Name of the Candidate
Registration Number
Name of Institution
Priority Basis for Choice of Discipline – Painting/ Sculpture /Print Making
1… 2… 3….

The sealed envelope should be mailed directly to:

The Department of Fine Arts,
SN School of Arts and Communication,
Prof C.R. Rao Road, Gachibowli,
Hyderabad, 5000046, TS.

Candidates must fulfill all the above requirements in order to be considered for the on-campus Entrance Test and Admission for MFA in Painting/Print Making/Sculpture.

Distribution of marks for the Entrance Exams MFA Programs (Painting/Sculpture/Print Making)

Written Test to be conducted in Different Centers. Written test will comprise OMR and Essay questions. OMR questions will comprise 25% of the grade. *(The essays will be addressed as part of the on-campus oral interview and portfolio evaluation).*	25%
15 Attested Photographs In addition to the online registration form submitted to the University of Hyderabad, an applicant must also submit15 (Attested) Photographs of Recent Works (8' x 10"), in a sealed envelope, to the Department of Fine Arts, SN School, University of Hyderabad. The photographs must be duly attested and verified by a responsible member of the teaching faculty in the institution where the student has completed his/her BFA/BVA/B. A. (Fine) degree. The attested photographs and application form have to be mailed in a sealed envelope directly to The Department of Fine Arts, SN School, Prof. C.R. Rao Road,	25%

Gachibowli, Hyderabad, 5000046 TS	
Oral Interview (On campus) Part B of the Written Exam (essay questions) will be considered as part of the evaluation process at this time.	25%
Artist Portfolio (To be shown at the time of Campus interview) (For the portfolio, students are required to bring 5-10 representative works in their field of specialization along with their sketch books. Students applying to the Sculpture discipline may bring 2 small original works (along with photographs of their works and sketchbooks.] Each photograph must carry details of size, medium and date, and **must be individually attested by the Head of the Department/Institution**.)	25%

Note:

(i) The shortlisting of candidates for the campus interview will be on the basis of their performance in OMR section (Part A) of the written exam, and on the evaluation of the 15 photographs of art works that have been sent directly to the Department of Fine Arts.

(ii) Part B of the written exam (Essay questions) will be evaluated and considered only for those candidates who qualify for the campus interview. *The essays will be evaluated for their ability to convey ideas, and to write in meaningful ways about visual images and art practices. The essays will be addressed and included as part of the campus interview and portfolio evaluation.*

(iii) The criteria for evaluation of visuals will be demonstration of technical ability, conceptual clarity, stylistic coherence, and understanding of visual image making practices.

(iv) In the oral interview, the student must be able to back the claims being made in the written essays and in the accompanying portfolio.

(v) All photographs of the student's works that are presented for evaluation and admission to the University of Hyderabad must be duly attested and verified by a responsible member of the teaching faculty in the institution from which the student has received the BFA/BVA/B. A (Fine) degree. Any instance of misrepresentation or wrongful attribution of artworks that come to light at any time during the course of the MFA program, will be taken seriously and will be addressed in accordance with the rules and statutes of the university.

Essential requirements at the time of Application for MFA Art History & Visual Studies:

Bachelor Degree in Fine Arts: BFA, BVA or BA (Fine).

Candidates from related disciplines like History, Sociology, Literature and Anthropology may also be considered provided they demonstrate evidence of aptitude in Art History, capacity to read visual images and demonstrate adequate knowledge of contemporary artistic practices. Students must provide evidence of training or practice in visual arts at the time of the oral interview by bringing sketchbooks, art works or photographs of their original art works.

The Distribution of marks for the Entrance Exam for Art History & Visual Studies students will be as follows:

Written Test to be conducted in different centers. Part A and Part B (OMR) Objective type Questions + Part C (Essay questions). Part A and Part B (OMR questions) will comprise 50% of the grade. Part C, the essay questions will be addressed only as part of the campus oral interview.	50%
Written Essays (Previous essays + On-campus essay, on assigned topic, on the day of interview)	25%
Oral Interview (On Campus) (For the oral interview, student must bring a portfolio of their art practice in the form of drawing books, original works or photographs)	25%

Note:

(i) The shortlisting of candidates for the campus interview will be on the basis of their performance in OMR section (Part A) of the written exam.

(ii) The written essays will be evaluated and considered only for those candidates who qualify for the campus interview.

(iii) ***The essays will be evaluated for their ability to demonstrate an aptitude for art history, adequate language skills to convey ideas, as well as a basic understanding of image making practices. The essays will be addressed, and included as part of the campus interview and portfolio evaluation.*** Student's basic knowledge in Art History, and communication skills in English is expected

Department of Communication

The Department of Communication at the University of Hyderabad has been consistently ranked the best university department in the country by various surveys over the years. It has acquired a reputation for excellence in teaching and research, with a good track record of placements. Graduates have found positions in a range of media-related companies, as well as in supportive communication roles in the corporate, government, and civil society sectors. A significant number have gone on to pursue higher degrees both within India and abroad, and several of these alumni now hold top positions in media companies and teaching/research positions in reputable HEIs.

Experienced faculty members and the state-of-the art infrastructure makes it the most sought after department for media and communication studies. Its geographical and cultural position combined with the faculty members' vast experience in various fields makes it a hub for various national and international projects. Students also benefit immensely from a steady flow of scholars and experts in all areas related to the discipline.

Programmes of Study

The Department offers **two postgraduate programmes** that have a judicious mix of theory and skills, but with different emphases--one of which would be primarily focused on media practice

and the other, on theory and research. The idea, in each case, is to build practitioners with a sensitivity to the conceptual underpinnings of media and society, and to build critical researchers with an understanding of media practice.

MA Communication (Media Practice): With a convergent journalism media practice and technology focus resulting in the ability to tell engaging stories for a variety of purposes and in a range of contexts.

This two-year programme exposes students to an array of media skills and practices, ranging from writing to audio-visual and digital media production, preparing them for jobs in the media industry or for independent media practice. Courses under this specialization build on a foundation of media and communication theory while equipping students with the skills, techniques and understanding to function in a variety of media roles, from content creation to dissemination to management in the rapidly converging media ecosystem.

MA Communication (Media Studies): With a theory, research and critical focus, this two-year programme exposes students to the theoretical and conceptual foundations of the discipline as well as building in them the skills to apply these principles in the field as practitioners and researchers. Courses under this programme range from understanding how communication and media interface with issues of development and social change to critically analyzing media industries, popular cultural phenomena, histories of media, and digital culture.

Students can select from a range of electives as they advance into the programme while meeting the core course requirements of their chosen programme, in a manner that blends theory and practice even as it may emphasize one or the other. Supplementing teaching with regular workshops by experts/ industry professionals enriches the programmes.

In the context of online/blended mode of teaching-learning during the pandemic, it is imperative to mention here the expectation about basic technology ownership among selected candidates. Please note that the course requires equipment such as a smart mobile and/or a computer/laptop capable of handling multi-media operations.

Ph.D (Communication)

The Department offers a Doctoral Programme in Communication. Research students will be required to complete mandatory coursework in the first two semesters of 14 credits, including Advanced Theory, Advanced Research, Academic Writing, and Topic-based Readings, before taking up their research work.

Currently, the department encourages research in communication and social change, community media, historical and cultural studies of media, ontology of media and information, health and science communication, digital media studies, feminist media studies, media law and ethics, media and gender, and practice-based research.

Entrance examination

MA Communication (Media Practice) and MA Communication (Media Studies)

The department will conduct **two separate entrance examinations** for the two programmes. Short-listed candidates will be called for an **online** interview.

The entrance examination (60 marks), to be held in several centres across the country, will comprise questions related to general knowledge, current affairs, media awareness, logical reasoning, English language and analytical skills. There is negative marking for incorrect answers.

Shortlisted candidates on the basis of merit will be called for an **online** personal interview (25 marks). Candidates must ensure that they are in a location with stable internet connection and possess the required hardware (PC/laptop/mobile phone, headphones, etc.)

Candidates who successfully clear both the written test and interview will be admitted into the two programmes.

Applicants can choose to write the entrance examination for both the programmes. However, admission provided and accepted by an applicant in one programme will be final. They shall not be allowed to slide into the other programme after having registered for a programme they have been selected for.

Ph.D (Communication)

Eligible candidates will be required to write a written test comprising questions in: theory and concepts in the field; research methodology; and a project synopsis. Although students are expected to bring along a PhD proposal and be prepared to discuss it with the interview panel, this need not necessarily be the topic that the selected candidates will eventually work on.

The admission procedure consists of a written entrance examination (70 MARKS), followed by a personal interview (30 marks) for shortlisted candidates.

The Entrance Examination question paper (70 marks) will consist of:

PART A: Will consist of questions related to Communication Theories and Concepts.

PART B: Will consist of questions related to Methodology

PART C: Candidates will be required to write a synopsis for a research proposal they wish to undertake that must include a clearly articulated problem statement, relevant literature, specific aims and objectives, and methodology. This need not be the eventual research topic on which a selected candidate will work, but only a means to test the candidate's ability to articulate a feasible research problem in the field of communication and media studies.

Personal Interview

Shortlisted candidates will be called for an **online** Interview (30 marks) during which they would be required to demonstrate their aptitude to undertake doctoral research. Candidates are expected to bring along a PhD proposal and be prepared to discuss it with the interview panel; this need not necessarily be the topic on which the selected candidates will eventually work.

Weightages for Ph.D interview

Sl. No	Weightage	Max. Marks: 30
1	Having Fellowship: JRF and equivalent only	5

2	Research Proposal & its defense	10
3	Domain knowledge & research aptitude	15
Total marks		30

Faculty supervisors, areas of research and vacancies for the academic year, 2021-22

Total vacancies: TWO

FACULTY	RESEARCH AREAS	VACANCY
Prof. Kanchan K. Malik	Community Media, Media Law and Ethics, Media and Gender, Communication and Social Change	ONE
Dr. Madhavi Ravikumar	Digital media, Digital cultures, Media Studies	ONE

Faculty

Senior Professor

Vinod Pavarala, Ph.D. (University of Pittsburgh, USA) – Communication and Social Change, Community Media, Popular Culture. Also holds the UNESCO Chair on Community Media.

Professors

P. Thirumal, Ph.D. (Pondicherry) – Rhetoric of Development, Theory and History of Media.
Vasuki Belavadi, Ph.D. (Hyderabad) – Radio, Video Production, Community Media. (Head of the Department)
Kanchan K. Malik, Ph.D. (Hyderabad) – Print Journalism, Community Media, Media Law and Ethics, Media and Gender, Communication and Social Change.
Usha Raman, Ph.D. (University of Georgia, USA) Print Journalism, Health and Science Communication, Digital Media Studies, Feminist Media Studies

Associate Professors

E. Sathya Prakash, Ph.D. (Osmania) – Media Management, Documentary Theory, Film Theory & Criticism
Janardhan Rao Cheeli, Ph.D. (Hyderabad) – Television Production, Documentary Production, Participatory Video.

Assistant Professors

Madhavi Ravi Kumar, Ph.D. (Andhra) - Print and Broadcast Journalism, Convergence Journalism, Development Communication, Digital Media Studies.
Anjali Lal Gupta, M.A. (Jamia Millia Islamia) - Theory and Practice of Journalism, Narrative Journalism, Features and Analytical Writing, Development Journalism.

Department of Music

The Department of Music, established in the year 2019 at the University of Hyderabad, is the latest addition to the Sarojini Naidu School of Arts and Communication. With the objective of offering the best academic and research programmes in traditional and modern music

education, the Department of Music endeavours to explore the various dimensions of music pedagogy to nurture the diverse skill sets of students to specialise in the areas of performance, research and teaching. The Department of Music will be offering a PG programme in Music from the academic year 2021-22.

Programme of Study

MPA (Music) (Carnatic and Hindustani – Vocal/Instrumental) - The Masters in Performing Arts (Music) is a full time two years Course comprising four Semesters. The curriculum strikes a balance between theory and practice and is structured to provide the students an opportunity to understand the historical, textual, aesthetic, critical and practical dimensions of the art of music and its practices and traditions. Students will also be initiated into research, writing and performing and offered a chance to explore and strengthen their skills in inter/multi-disciplinary studies in music and its allied musical traditions and practices.

The academic curriculum will be complemented through Lectures, Demonstrations and Workshops by eminent visiting artists of national and international repute, seminars, conferences, workshops etc., on a regular basis. The department aims to provide the necessary impetus and an ideal learning environment to an aspiring music enthusiast on the path of becoming a successful musician, musicologist, researcher, teacher or an entrepreneur.

Programme Learning Outcomes

On completion of the two year MPA (Music) course, students will be able to –

* become adept in both the art and science of music
* appreciate the significance and importance of established traditions
* explore the creative dimensions of performance aspects
* apply the nuances of theoretical aspects to present aesthetical performances
* gain knowledge about the comparative and critical aspects of various styles of music
* understand the wide scope for research in music and its associated subjects.
* use theory to bridge gaps between traditional and modern conceptions of music and its practice
* have an overview about the documentation and legal aspects of music productions
* make use of technology in exploring, recording, promoting, propagating and preserving music and music instruments
* understand the intricate linkages between technology and music production

Entrance examination for MPA (Music)

Admission to the PG Programme in Music will be through an entrance examination consisting of a combination of objective (50 marks) and descriptive (25 marks) and a practical test (25 marks) on subjects related to the specific field of study i.e., Music.

- Those selected in the written entrance examination will then be called for a practical test (25 marks) before final selection.

- Candidates are required to indicate in the application their preference of specialization in order of priority.
- Based on the prerequisite experience and the candidate's performance in the admission test and viva, the Department shall assign specialization streams to each of the selected students.

Faculty

The Department of Music has three faculty members and **Prof. Vasuki Belavadi,** Dean-SN School, is currently the Head in-charge of the Department of Music.

Faculty – Assistant Professors

1. Dr. Pavani D., Ph.D (Music) (Hyderabad), Carnatic Music
2. Dr. Aranyakumar M., Ph.D., (Music) (Dharwad), Hindustani Music
3. Dr. Pragya Pyasi, Ph.D., (Music) (Lucknow), Hindustani Music

SCHOOL OF MANAGEMENT STUDIES

The School of Management Studies (SMS) was established in 1999. The School has completed 21 years of excellence in providing Management Education and preparing business leaders for the global market. The School is acknowledged for its cutting-edge research, excellent teaching and learning activity in an intellectually stimulating environment. It promotes faculty & doctoral research, consultancy, training, and outreach activities in various sectors.

The Vision

The broad vision of the School is to continually strive to achieve excellence in management education, research, training, consultancy and outreach activities with a multi-disciplinary, multi-sectoral and developmental perspective.

The Mission

- To continually broaden the scope of application of management concepts to Infrastructural, Institutional, Environmental & Developmental services, Entrepreneurship and emerging areas in management.
- To promote the development of sound conceptual and adaptable functional and strategic skills among students.
- To encourage socially responsive managers of tomorrow.
- To instill a culture of lifelong learning and self-development among the students.

THE CORE ACTIVITIES

- Organizing the course work including electives
- Providing relevant inputs/skills - self-awareness and growth lab, organizational skills, summer internship, and project work
- Conducting Faculty and Management Development Programmes
- Encouraging research by faculty and Ph.D. scholars
- Organizing seminars and encouraging participation in external seminars
- Collaborating with reputed National / International institutions / Industry
- Encouraging students to organize and participate in co-and extra-curricular activities

Prof. P. Jyothi is the Dean of the School.

Programmes of study

MBA Programme (MBA General)

The two-year MBA full-time programme with an intake of 75 students is spread over four semesters. During the first two semesters, core and foundation courses are offered. These include Management Concepts and Approaches, Managerial Accounting and Finance, Marketing, Organizational Behaviour, Human Resource Management, Statistics for Business Analytics, Managerial Economics, Communication and Personal Effectiveness, Operations Management, Operations Research, Research Methodology, Business Analytics and Business Environment. In addition, a three-day concentrated Self-awareness and Growth Lab is also organized during the first year.

The students are required to get practical exposure by undertaking eight weeks internship in an organization during the summer intervening between the second and third semesters. These internships are intended to familiarize the students with current management practices, work environment and organizational culture. During the second year, the students have the opportunity to specialize in two select areas of their interest. These specializations are offered through electives and project work spread over the two semesters. The students may choose from the following specializations offered:

- Marketing Management
- Finance Management
- Human Resources Management
- Operations Management
- Business Analytics
- Entrepreneurship
- Banking

The students also undertake a long-term research project during the final year. It is intended to provide research skills thus enabling them to develop decision-making skills as managers.

Admissions for the M.B.A.(General) 2021-22 academic year, with an intake of 75 students were completed on the basis of CAT-2020 scores. Candidates planning to take MBA (General) admission for the academic year 2022-2023 are advised to check for admission notification in the months of August/September 2021. The notification can be accessed on the University website.

MBA (Health Care and Hospital Management)

The School has been offering a unique MBA programme (Health Care & Hospital Management) since 2008-09. The two-year (four semesters) programme is offered in association with leading hospitals to meet the challenges and opportunities offered by the growing health care industry in India. The programme caters specific needs of middle level administrators in hospitals / health care and related sectors. This comprehensive programme will provide a professional qualification and insights into managerial functions for those serving graduates who wish to take up health care and hospital management as a professional career. It will also be of immediate benefit to serving professionals in this sector.

The broad vision of the programme is to strive to achieve excellence in the areas of health care and hospital management education, research, training, and consultancy on par with International benchmarks and standards. The broad mission is to prepare competent and trained hospital management professionals in a synergistic learning environment having strategic alliances with leading healthcare institutions in India and abroad. The major focus is on enhancing and enabling the existing mechanisms engaged in management of healthcare sector in India through capacity building programmes, dissemination of knowledge through continuous interaction between academia and industry, and to promote developmental activities in health care sector.

Highlights of the Programme

- Curriculum is spread over foundation and core courses in the first year and specialized courses in the functional areas in the second year
- Course curriculum developed by seeking inputs from senior hospital management and health care professionals
- Self-awareness and growth lab for personal effectiveness
- 8-10 weeks of summer internship to understand the nuances of the hospital environment
- Final project under the supervision of a Faculty guide in conjunction with an industry mentor

Programme Pedagogy

The teaching/learning methodology is significantly interactive with case studies and group projects to study global health care and hospital management practices

- Interaction with eminent professionals from health care and hospital management
- Individual learning through guided assignments
- Personal growth/self-development and organization skill workshops
- Computer-based learning and audio-visual aids

During the period of study, the student will be required to carry out an 8 weeks summer project after completion of the second semester and final internship project work in any health care institution in the final semester. Efforts would also be made to provide the students a continuous learning opportunity through short-term projects and attachment with recognized hospitals. The intake, qualifications for admission and schedule for written exam/interviews for M.B.A. (Health care and Hospital Management) are provided in a tabular format in this brochure.

MBA (Business Analytics)

The School launched a very unique and innovative two year MBA in Business Analytics programme in the year 2017. This program is spread over four semesters. It is supported by School of Economics, School of Computer and Information Sciences, School of Mathematics and Statistics, CR Rao Advanced Institute of Mathematics, Statistics and Computer Science and Industry. The course includes the basic foundation subjects of Management that include Management Concepts and Approaches, Finance, Marketing, Human Resource Management, Operations and Business Analytics subjects like Statistics for Business Analytics, Business Analytics for Decision Making, Machine Learning, Marketing and Retail Analytics, Big Data, Financial Analytics, Econometrics, HR Analytics, Manufacturing and Supply Chain Analytics etc. Lab sessions are also included in the course.

Students are required to get practical exposure by undertaking eight weeks internship in an organization during the summer intervening between the second and third semesters. These internships are intended to familiarize the students with current developments in the area of Business Analytics along with the management practices, work environment and organizational culture. The students also undertake a long term research project during the final year. It is intended to enhance their analytics skills enabling them to join organizations.

Highlights of the Programme

- Curriculum is spread over foundation and core courses related to Management, Information Technology and Analytics in the first year and emphasis is placed on courses related to advanced Business Analytics in the second year.
- Course curriculum developed by seeking inputs from industry professionals and academicians.
- Self-awareness and growth lab for personal effectiveness.
- 8-10 weeks of summer internship to understand the working environment of the analytics industry.
- Final project under the supervision of a Faculty guide along with an industry mentor.

Course Curriculum and Programme delivery

The course curriculum is developed with active collaboration / involvement of industry professionals to provide the students with state of the art knowledge and practical orientation in the field of business analytics and management. The course is being offered to a limited strength of about 37 students plus 5 Industry sponsored candidates with key inputs from the Faculty of the school and other visiting Faculty with supplementary inputs from industry professionals.

Foreign Nationals: 2021-23 MBA

Up to five international students may be considered for admission to the MBA programme in absentia. Their selection would be based on:

- 60% marks or above or its equivalent grade in a Bachelor's degree in any field from an officially recognized University/institution in their country of residence;
- Proof of proficiency in English (score in TOEFL or equivalent Test or certification);
- Statement of purpose; and
- At least two academic references

Interested students should submit an application with full personal details, summary of academic records from high school onwards, attested copies of mark-sheets and TOEFL (or equivalent) scores, a brief (200 to 300 words) statement of purpose for pursuing the course, names and contact addresses of at least two referees, by May 10, 2021 at the latest. They should also ensure that, if admitted, they must join the programme before 15th July, 2021.

The charges for hostel accommodation on campus for all students from abroad will be the same as paid by students from India. All fees and charges are subject to revision by the School/University from time to time.

Executive MBA Programme

The School launched an MBA programme for working professionals in the year 2019. This is a weekend MBA programme offered for working professionals with minimum of three years of experience. It is designed to cater to the specific needs of working professionals who are planning transition to managerial roles. The Mission is to develop and nurture socially responsive

managers with a holistic concern for a better environment and society. The students are offered all the courses of a regular MBA and fulfil the criterion of credits and receive a degree in MBA. This "*Two Year Executive MBA* programme is offered *under Graded Autonomy"*.

Highlights of the Programme

- Curriculum spread over TWO years during weekends and offers foundation and elective courses in the Functional Areas.
- Course Curriculum developed according to Industry inputs.
- Courses taught by experts from Industry and Eminent Academicians.
- Scope for doing Internship in a Foreign University
- Specializations include Business Analytics Marketing, Finance, Human Resources Management, Operations Management and IT.
- Case based pedagogy in addition to the conventional modes of teaching.

Ph.D. Programme

The School has been offering a Ph.D. programme in Management Studies since 2000. The students are expected to produce a dissertation of international quality based on research in analytical and/ or applied areas of management. All the students admitted into Ph.D. programme are required to undergo course work as stipulated by the UGC. The course work includes the subjects in Statistics, Research Methodology, Academic Writing and Research issues in Management. The School has been focusing its research on various contemporary issues of Management including the following.

- Banking Management
- Brand Management
- Business Analytics
- Corporate Social Responsibility
- Customer Relationship Management
- Organizational behavior
- Entrepreneurship
- Financial Markets
- Financial Services
- Health Care and Hospital Management
- Investment Analysis
- Performance Management
- Risk Management
- Service Quality
- Supply Chain Management
- Technology Management
- Tourism and Hospitality Management

Note: Coursework of a minimum of 12 credits is mandatory for Ph.D. programme. All the candidates admitted for the Ph.D. programme need to complete the coursework within one year period of admission.

Entrance Examination

➢ **MBA (General) -** Admissions for the MBA 2021-23 batch, with an intake of 75 students is on the basis of CAT-2020. The admissions were completed. Candidates planning to take MBA admission for the academic year 2022-23 academic session are advised to check for admission notification in the months of August/September 2022. The notification can be accessed on the University website (www.uohyd.ac.in).

➢ **MBA (Healthcare and Hospital Management) -** An entrance exam would be conducted by the University. Entrance exam will be for 75 marks (comprising Multiple Choice Questions related to Logical Reasoning, Verbal Ability, Quantitative ability, Data sufficiency, Healthcare awareness, and General Knowledge). Candidates shortlisted after the written exam will be called for Group Discussion and Personal Interview. The final offer would be made on the basis of performance in the written exam, Group Discussion and Personal Interview and the weightage for the written exam, Group Discussion, and Personal Interview will be 60%, 15 % and 25% respectively. The eligibility criteria and the dates of entrance exam and interview are mentioned in a tabular format in this brochure.

➢ **MBA (Business Analytics) -** An entrance exam would be conducted by the University. Entrance exam will be for 75 marks (comprising Multiple Choice Questions related to Logical reasoning, Verbal ability, Quantitative ability, Mathematical ability, Statistical Ability, Data Analysis and Interpretation etc.) followed by Group Discussion and Personal Interview. Candidates shortlisted after the written exam will be called for Group Discussion and Personal interview. The final offer would be made on the basis of performance in the written exam, Group Discussion and Personal Interview and the weightage for the written exam, Group Discussion, and Personal Interview will be 60%, 15 % and 25% respectively. The eligibility criteria and the dates of entrance exam and interview are mentioned in a tabular format in this brochure.

➢ **Executive MBA –** An entrance exam would be conducted by the University. Entrance exam will be for 75 marks (comprising Multiple Choice Questions related to Logical reasoning, Verbal ability, Quantitative ability, Mathematical ability, Statistical Ability, Data Analysis and Data Interpretation etc.) followed by Group Discussion and Personal Interview. Candidates shortlisted after the written exam will be called for Group Discussion and Personal interview. The final offer would be made on the basis of performance in the written exam, Group Discussion and Personal Interview and the weightage for the written exam, Group Discussion, and Personal Interview will be 60%, 15 % and 25% respectively. The eligibility criteria and the dates of entrance exam and interview are mentioned in a tabular format in this brochure.

➢ **Ph.D. Programme-** Applicants satisfying the minimum qualifications will be required to take an entrance exam. Entrance exam will be for 70 marks (comprising multiple choice questions in Research Methodology, Logical reasoning, Analytical ability, Data analysis & Interpretation etc. for 35 marks and Principles of Management, Managerial Economics, Marketing Management, Accounting, Costing, Financial Management, Human Resources Management, Operations Management, Strategic Management, Business Statistics, Operations Research etc. for 35 marks). The shortlisted candidates among the qualified will be called for an interview. Applicants will be required to submit, along with the application, a brief tentative proposal (about 500 words) on their proposed topic of research. The

eligibility criteria and the dates of entrance exam and interview are mentioned in a tabular format in this brochure.

Faculty

Professors

V. Venkata Ramana, M.B.A. (Sri Krishnadevaraya), Ph.D. (Management - Osmania) - Marketing Management, General Management, Corporate Strategy and CRM and Services Marketing.

V. Sita, M.A., (Osmania) M. Phil, (Hyderabad), Ph.D. (Osmania) - FDP(IIM, Ahmedabad), PGDHRM (Pondicherry) -Public Policy, General Management, E-Governance, Entrepreneurship and Women Studies.

P. Jyothi, M.A., Ph.D. (Psychology - Osmania) - Organizational Behaviour, Human Resource Management, Organizational Development, and Entrepreneurship. (Dean of the school)

Raja Shekhar Bellamkonda, B.Tech. (Civil - Acharya Nagarjuna), M.B.A. (Osmania), Ph.D. (Management - Kakatiya), M.Sc., Ph.D. (Psychology - Sri Venkateswara), M.A. (Education-IGNOU), FDP (IIM, Ahmedabad), PGDPMIR (Kakatiya), PGDCS (Hyderabad) - Quantitative Techniques, Service Quality, Business Analytics, Research Methodology, Industrial and Organizational Psychology.

Mary Jessica, M.Com., Ph.D. (Management - Osmania) - Financial Management, Merchant Banking and Financial Services, Investment Management and International Financial Management.

G.V.R.K. Acharyulu, B. Tech. (Chemical- Andhra), M. Tech. (Chemical – NIT Warangal), M.B.A. (Osmania), Ph.D. (Management - Osmania), DPM (Annamalai) - Quantitative Techniques, Operations Management, Supply Chain Management, Health Care Management and Business Analytics. **(Coordinator, M.B.A Health Care and Hospital Management Programme).**

Vijaya Bhaskar Marisetty, M.B.A (Sri Krishnadevaraya), M.S. (RMIT, Australia), Ph.D. (Management- Monash, Australia), PDF (Wharton School, University of Pennsylvania & ISB, Hyderabad) – Investments, Financial Regulation, Indian Financial Markets; Corporate Governance; Machine Learning Applications in Finance.

Associate Professors

Chetan Srivastava, MBA, Ph.D. (Management - Osmania), PGCCA, MCSD - Strategic Marketing. International Marketing, Advertising, Sales Management, IT in Management.

Sapna Singh, MBA, Ph.D. (Management - Osmania) - Marketing, Branding and Advertising.

I. Lokanandha Reddy, MBA (Sri Krishnadevaraya), Ph.D. (Management - JNTUH) - FDP (IIM, Ahmedabad) - Corporate Finance, Investment Analysis, Strategic Financial Management and Business Analytics.

Assistant Professors

D.V. Srinivas Kumar, B. Tech. (Acharya Nagarjuna), MBA (Andhra), Ph.D., (Management-Hyderabad), FDP (IIM, Indore) - Services Marketing, Customer Relationship Management and Business Analytics. (Coordinator, M.B.A Business Analytics Programme).

K. Ramulu, M.Com (Kakatiya), MBA (DRBRAOU), M. Phil. (Commerce - Nagpur), Ph.D. (Management-Kakatiya) - Materials Management-Financial Management, Financial Accounting, Management Accounting, Financial Risk Management, Security Analysis and Portfolio Management and Financial Markets.

Punam Singh, MBA(ISM-IIT, Dhanbad), Ph.D. (Management - JNTUH) - Human Resource Management, Organisational Behaviour, Corporate Social Responsibility, Performance Management and Compensation Management.

Pramod Kumar Mishra, M.Sc. (Mathematics- NIT Rourkela), MBA (Biju Patnaik), Ph.D. (Management-Hyderabad), PDF (IIM, Bangalore)- Supply Chain Management, Logistics Management, Mathematical Modelling and Business Analytics.

Murugan Pattusamy, M.B.A., Ph.D. (Management-Anna) – Work-family balance, Business analytics, HR Analytics, Research Methodology, Application of Multi-Variate data analysis techniques in Management, Item response theory, Mediation and Moderation analysis.

Varsha Mamidi, M.B.A. (Osmania), Ph.D. (Management-Monash University, Australia) - Machine Learning, Predictive Analytics, Financial Analytics, Big data.

Dr. Ranjit Kumar Dehury, BHMS (Homeopathy-Utkal), MHA (Hospital Administration-TISS, Mumbai), Ph.D. (Health Systems-IIT, Kharagpur)-, Health Systems Studies, Public Health, TQM in Hospital, Strategic Management in Health Care, Health Manpower Planning, Marketing Management of Health Care, Global Health Diplomacy, Healthcare Data Analytics

Re-employed Professor

Prof. B. Kamaiah, Ph.D. (IIT, Bombay) – Monetary and Financial Economics.

Some of the key invited visiting Faculty:

1. Prof. Arun K Tiwari, Secretary, CARE Foundation, Hyderabad.
2. Prof.V. Nagadevara, Former Dean, IIM, Bangalore.
3. Dr. Suresh K, Data Scientist TEK Systems-Hyderabad.
4. Dr. K. Venkateswara Rao, Healthcare Consultant, Hyderabad.
5. Dr. Zafer Hashmi, CAS-RMO, Osmania General Hospital, Hyderabad.
6. Dr.G. Manoj Kumar, Associate Professor, Advanced Center of Research in High Energy Materials, University of Hyderabad

In addition, several local and international senior managers and management experts are regularly invited to interact with the students as Guest Speakers.

SCHOOL OF MEDICAL SCIENCES

The School of Medical Sciences is DST- FIST supported. The School was established with a mission to "Promote, Nurture and Achieve Excellence" in frontier areas of Medical and Health Sciences by offering novel teaching and research programmes. With a broad focus on translational health services and research, the inter- and multidisciplinary nature of the School by its establishment has collaborations with other schools and centres of the university that are involved in Medical and Health Sciences research. The School of Medical Sciences draws on the experience of several Adjunct, Joint and Visiting Faculty from the University and other Institutes who actively participate in the multidisciplinary teaching and research programmes. The Centre for Health Psychology (CHP) and the Centre for Neural and Cognitive Sciences (CNCS) are two centres affiliated to the School.

Programmes of study

1. **Integrated Master of Optometry (M.OPT):** The **6-year Integrated M.OPT.**

The course objectives are to enable to students

- Possess and acquire scientific knowledge to work as an eye and health care professional.
- Demonstrates and possesses clinical skills to provide quality eye and health care services.
- Demonstrate team work skills to support shared goals with the interdisciplinary health care team to improve societal health.
- Possesses and demonstrates ethical values and professionalism within the legal framework of the society.
- Communicate effectively and appropriately with the interdisciplinary health care team and the society.
- Demonstrate high quality evidence-based practice that leads to excellence in professional practice.
- Enhance knowledge and skills with the use of advancing technology for the continual improvement of professional practice.
- Display entrepreneurship, leadership and mentorship skills to practice independently as well as in collaboration with the interdisciplinary health care team.
- To take up research in specialized fields of optometry and vision sciences.

Course is designed to train the students in different aspects of optometry and is backed up with extensive practical skills and one year of mandatory clinical internship during their 4^{th} year of training. The students spend part of the first year at College of Integrated studies learning courses which are common for sciences and the rest of the years they are integral part of the School of Medical Sciences. In the fourth year, they are required to do a one year of compulsory rotatory clinical Internship which can be undertaken at any of the recognized Institutions approved by the SoMS like LV Prasad Eye Institute, Hyderabad, Aravind Eye Hospital, Mehdipatnam, Hyderabad, Centre for Sight, Hyderabad, Pushpagiri Eye Institute, Swaroop Eye Hospital. These institutes select the students based on the written test and/ or interview conducted by the clinical institution at the end of their third year. If a student has a backlog in basic science and core optometry courses at the end of the third year then he/she will not be allowed to go for internship. Some of the clinical institutions charge fees for internship, which has to be paid by the student. During the Internship the student is required to make arrangements for transport from University to the Clinical Internship centres.

The **Eligibility** for admission to the course is based on a written test. The written test paper based on XII Board syllabus will have a total of 100 objective type questions in Biology, Chemistry, Physics, Mathematics and English.

Exit clause: Any student enrolled for Integrated Master of optometry will be able to exist the program at the end of fourth year after completing the compulsory clinical internship of one year duration and project work with B.Optom degree. For a student to continue into the Integrated Master of optometry program she/he should have cleared all courses from first to the fourth year with minimum of 6.5 CGPA or else she/he will have to exit the course at the end of fourth year after completing the compulsory clinical internship of one year duration and project work.

Master of Public Health (MPH)

The major objectives of the MPH programme are as follows:

- Prepare professionals to work in public health in socially, culturally and economically diverse populations by being attentive to needs of vulnerable and disadvantaged groups.
- Promote public health research in institutional and field settings.
- Train professionals for teaching /training posts in public health institutions for disability, ageing and gender sensitive issues and health project management.
- Promote qualities of leadership among public health professionals and effectively use communication skills for health advocacy.

Selection is through entrance examination of the University of Hyderabad. The written test paper would be based on Bachelor's degree syllabus in public health and allied specialties and will have a total of 100 objective type questions covering above cited subjects.

Ph. D. Programme: Ph. D in Health Sciences -

The School offers a Ph. D programme in 4 streams (Public Health, Optometry & Vision Sciences, Nursing and Biomedical Sciences). This year there will be an intake of candidates as below, and will follow all the UGC Regulations, 2016. The applicants can select only one stream for pursuing their study. For the admission period 2021-2022 the following are the faculty who are available to take new students for Ph. D in the areas mentioned against their names:

PhD Vacancies and Faculty's 'areas of Specialization:

A) PhD Health Sciences (Public Health):01 seat

Selection process: Entrance Examination followed by Interview.

Entrance Examination: Admission for Ph. D Health Sciences (Public Health) shall be through an entrance examination for screening and interview for final selection. The Entrance Examination will carry a total of 70 marks and divided into 2 equal sections. Section A - The entrance examination question paper will have 50 % of questions (35 questions) in Section A which will have multiple choice questions based on general sciences, aptitude plus analytical & basic research skills. Section B – Public Health specialty stream paper. There will not be negative marking for both the sections. Selection of final candidates for the Ph. D program will be based on written test and interview

whether screened in through entrance examination for Public Health stream or JRF qualified candidates for biomedical and public health stream.

Note: JRF in Social Medicine & Community Health of UGC-NET with eligibility are also eligible to appear for interview without appearing for University Entrance Examination. Other JRF holders should look at the prospectus for their eligibility.

Compulsory Course Work – 14 credits including common courses and specialization related courses as per University guidelines.

B) **Ph. D Health Sciences (Biomedical Sciences) – 02** seats

Admission
Candidates to the two Ph. D programmes should be a JRF in Life Sciences (CSIR, UGC and ICMR). Eligible candidates will be selected through an interview.

Compulsory Course Work – 14 credits including common courses and specialization related courses as per University guidelines.

Ph. D. intake in Health Sciences for the academic year 2021-2022

S. No.	Name of Faculty	Subject	No. of Intake
1.	Prof. Geeta K. Vemuganti	Bio Medical Sciences	Nil
2.	Prof. B. R. Shamanna	Public Heatlh	Nil
3.	Dr. Athar Habib Siddiqui	Bio Medical Sciences (JRF qualified)	01
4.	Dr. Mahadev Kalyankar	Bio Medical Sciences (JRF qualified)	01
5.	Dr. Ajitha Katta	Public Health	01
6.	Dr. C. T. Anitha	Public Health	Nil
7.	Dr. M. Varalakshmi	Public Health /Nursing	Nil
8.	Dr. K.V. Nagaraju	Optometry	Nil
9.	Dr. Surya Durga Prasad	Public Health	Nil

Faculty

Senior Professor

P. Prakash Babu, Dean (i.c), Ph. D (University of Hyderabad, Hyderabad): Neuroscience: Cell signalling and cell death (apoptosis and autophagy) in cerebral ischemia (stroke), cerebral malaria, brain tumour and stem cells.

Professors

Geeta K. Vemuganti, DCP MD (Path), DNB (Path), FAMS, FICP (University of Rajasthan, Nizam's Institute of Medical Sciences, National Academy of Medical Sciences) -- Adult Stem Biology research, Cancer stem cells, Ocular tumors and Ocular infections.

B. R. Shamanna, MD, DNB (MCH), DNB (SPM), M. Sc. (Lon.) (Karnataka University, All India Institute of Medical Sciences, National Academy of Medical Sciences, University of London). Health and Welfare Economics, Monitoring and evaluation of public health programmes, Implementation research, and Health technology assessment.

Associate Professors

Athar Habib Siddiqui, Ph. D (Aligarh) –Integrative physiology, Cardiovascular biology, Hypertension, Clinical Biochemistry.

Mahadev Kalyankar, Ph. D (University of Hyderabad, Hyderabad) – Diabetes, Insulin Resistance and Metabolic Disorders, Obesity and Fatty Liver.

K. Ajitha, MD, Ph.D. (Public Health) (SRM University Tamil Nadu).- Disability studies, Ageing,Road Traffic Injuries , Tribal health and Epidemiology of communicable and Non Communicable diseases .

C. T. Anitha, MD, MPH (Rajiv Gandhi University of Health Sciences, University of South Florida, USA) - Food safety, Public health Nutrition, Maternity and Child health.

Assistant Professors

M. Varalakshmi, M. Sc (Nursing), Ph. D. (Nursing), MBA (Hosp. Admn.), PG Diploma in Bioethics, MA Edu. –Translational research in Healthy Ageing, Socio behavioural health, Adolescent health, Women-Child Health, , Non-Communicable diseases with Gender and equity dimensions.

Konda Venkata Nagaraju , Ph. D (Optometry and Vision Sciences, University of New South Wales, Sydney) - Contact lenses, Ocular surface, Dry Eye and Innate immunity, antimicrobials and Eye care technologies.

M. Surya Durga Prasad, MBBS, MD (Community Medicine) (Osmania) - Basic and applied Epidemiology, Communicable and Non-communicable diseases.

Centre for Health Psychology

Health Psychology is a field with holistic approach to Health and Well-being. The holistic approach shifts the emphasis of health from biomedical to biopsychosocial models. Health Psychology is the field within Psychology that studies every aspect from wellness to illness. It focuses on health promotion and maintenance; prevention and treatment of illness; the etiology and correlates of health, illness and dysfunction, and improvement of the healthcare system.
The Centre for Health Psychology is the first ever Centre in the Country, and was established in the University in 2007. The research focus of the Centre includes biopsychosocial aspects of chronic illness, quality of life, ICU trauma, behavioural cardiology, community health, reproductive health, psycho oncology, geriatric health, health issues in women, behavioural diabetology, occupational health, disability studies, resilience studies, and positive health. Special emphasis is given to Indian approach to health and wellness.

Infrastructure

The Centre is equipped with Experimental Laboratory, Counseling Laboratory, Behaviour Technology Laboratory, and Sleep Laboratory. The Experimental Laboratory has modern digital instruments and more than 200 standardized psychological tests. The Counseling Laboratory is a state-of-the-art laboratory to train the students in micro skills of counseling. The Behaviour Technology Laboratory is well-equipped with a good number of equipment such as a Biofeedback machine. The Sleep Laboratory is equipped with a Polysomnography system to conduct research related to sleep.

Placements

Almost all the students who completed their course in Integrated MSc & MSc Health Psychology have found good placements in educational and research Institutes such as UoH, BHU, Central University of Tamil Nadu, Central University of Karnataka, deemed to be Universities and also in national government organization such as DIPR. Several students have joined Ph.D. in Universities in India and abroad. On completing Ph.D. our students have been placed in Universities and Colleges in teaching positions and in hospitals as Health Psychologists.

Programmes of study

1. M.Sc. (5-year Integrated) in Health Psychology (with exit option – B.Sc. Psychology)
2. Two-year M.Sc. in Health Psychology
3. Ph.D. in Psychology

Faculty

Dr. G. Padmaja (Head & Associate Professor) M.A., M. Phil, Ph.D. – Health Psychology, Counseling Psychology, Psycho-oncology, Geriatric Health and Health Issues Related to Women
Prof. Meena Hariharan (Professor) Ph.D. (Utkal) – Stress & Coping, Behavioural Cardiology and Resilient Studies
Dr. N.D.S. Naga Seema (Assistant Professor) M.A., Ph.D. – Community Health Psychology, Developmental Psychology, Psychology of Women, and Yoga

Dr. Meera Padhy (Assistant Professor) MPhil, Ph.D.–Developmental and Educational Psychology, Health Psychology, Behavioural Diabetology and Occupational Health
Dr. Suvashisa Rana (Assistant Professor) M.A. MPhil B.Ed., LL.B. Ph.D.–Positive Psychology, Peace Psychology, and Psychometrics
Dr. C. V. Usha (Assistant Professor) M.A., PGDCP, Ph.D. – Clinical Health Psychology, School Psychology and Counselling Psychology
Dr. C. Vanlalhruaii (Assistant Professor) M.A., Ph.D.–Health Psychology, Psycho Oncology, Caregiver Health

Adjunct Faculty
Prof. Girishwar Misra, Former Vice-Chancellor, Mahatma Gandhi International Hindi University, Wardha.
Prof. C.R. Rao, School of Computer Sciences, University of Hyderabad, Hyderabad.

Visiting Professors
Prof. Gyan mudra*, Head & Professor*, Centre for Human Resource Development, NIRDPR, Hyderabad
Dr. N. Balakrishna, Scientist 'E' (Retd.), National Institute of Nutrition, Hyderabad
Prof. N. C. Pati, PG Dept. of Applied Psychology, Chetana College of Special Education, RRL Campus, Bhubaneswar
Prof. A. S. Dash *(Late)* Utkal University
Dr. B. Sesikeran, Former Director, National Institute of Nutrition, Hyderabad
Dr. Saroj Arya, Retd. Clinical Psychologist, NIMH, Hyderabad
Dr. Susie Hariharan, Research Physician, Apollo Hospitals, Hyderabad
Prof. A.K. Saxena, Retd. Professor of Psychology, SVP National Police Academy, Hyderabad
Dr. Manika Ghosh, Director, Eudaimonic Centre for Positive Change and Well-being, Bangalore

Guest Faculty
Dr. Durgesh Nandinee M.A., PhD (Health Psychologist) Hyderabad

Visiting Fellow
Dr. Rakesh Kumar Jain, Senior Clinical Psychologist, IMHH, Billochpur, Agra

Entrance Examination
Admission to both **M.Sc. (5-Year Integrated)** and **M.Sc. (2-Year)** programmes Health Psychology is based on the performance of candidates in the national level written test conducted by the University. The test for admission to M.Sc. (5-year Integrated) in Health Psychology will assess knowledge in Psychology at +2 NCERT (75 marks) and proficiency in English (25 marks) (Total 100 marks). The test for admission into M.Sc. Health Psychology will assess knowledge in Psychology at Graduation Level (75 marks) and proficiency in English (25 marks) (Total 100 marks).
The Admission to **Ph.D. in Psychology** is through a national level entrance examination (written test and interview) conducted by the University. The test for admission to Ph.D. in Psychology

will assess knowledge in Psychology & Research Methodology (Masters Level) Part A – 35 marks, Research Methodology, Part B – 35 marks, and interview – 30 marks (total 100 marks).

The pattern for all the written examinations will be objective multiple-choice questions.

Eligibility Criteria of programmes of study

The eligibility of criteria for M.Sc Health Psychology (5 Year Integrated) course will be based on **+2 level**. The eligibility criteria for M.Sc Health Psychology (2 Year) course will be based on **Graduation and at least one paper as an optional paper in Psychology consistently for three years of graduation**. The eligibility criteria for Ph.D. courses will be according to **UGC Regulations 2016**. However, **Masters degree in Psychology** is essential.

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Break-up weightages for Ph.D. interviews

S. No	Weightage being considered	Marks
1	Research Proposal	05
2	Writing Skills*	05
3	Interview	20
	Total	30
	*Writing assignment would be given to candidates called for interview	

Faculty intake for PhD Supervision

S.No	Faculty	Designation	Areas of Supervision (2020-2021)	PhD Vacancies
1	Dr. G. Padmaja	Head & Associate Professor	Psycho-oncology Geriatric Health Health of Women	1
2	Dr. N.D.S. Naga Seema	Assistant Professor	Community Health Psychology and Yoga	1
3	Dr. Meera Padhy	Assistant Professor	Behavioural Diabetology and Occupational Health	3
4	Dr. Suvashisa Rana	Assistant Professor	Peace Psychology, Positive Psychology, and Psychometrics	1
4	Dr. C.V. Usha	Assistant Professor	Behavioural Cardiology, Adolescent Health, Community Health Psychology	2
5	Dr. Vanlalhruaii	Assistant Professor	Health Psychology, Psycho Oncology,	2

			Caregiver Health	

Centre for Neural and Cognitive Sciences

The Centre for Neural and Cognitive Sciences (CNCS) is a multidisciplinary research centre affiliated to the School of Medical Sciences, University of Hyderabad, offering research degrees in the areas of Neurosciences and Cognitive Sciences. At present, Centre offers PhD (Cognitive Science) and MSc (Neural and Cognitive Sciences) courses. The Centre has four permanent faculties who specialize in Neurosciences, Cognitive Sciences and sub-disciplines therein with additional adjunct faculty from other departments and Schools. The Centre has been actively participating both nationally and internationally over a period of time in training, collaboration and dissemination of knowledge in these areas. The Centre has conducted many national and international events over the years which have made the Centre and its work known to researchers and students widely. The Centre has excellent research facility to provide theoretical and experimental training to research students in the areas of Neurosciences and Cognitive Sciences; although with expansion in teaching and training requirements, more is needed in terms of research infrastructures keeping in account of this dynamically evolving field. The Centre's faculty members have excellent publication record in their respective areas of research and they constantly participate in international and national events that include workshops, symposia, etc. The Centre has received research support from DST, DBT and other bodies over the years. The Centre's research and teaching activities have also been actively supported by many other faculties from different departmentsand schools of the University resulting in excellent cross fertilization of knowledge. The multidisciplinary nature of its research program has attracted students from different disciplines who wish to do research in Neuroscience and Cognitive Science.

Programmes of study

The Centre offers MSc (Neural and Cognitive Sciences) and PhD (Cognitive Science) programmes.

Entrance Examination

M.Sc. Programme in Neural and Cognitive Sciences:

Entrance is through a multiple choice written exam (100 marks). The question paper will carry 100 objective type questions to be answered in two hours. There will be negative marking of 0.33 for every wrong answer. The question paper will have two sections, I and II. First section will be testing on numerical, verbal and logical aptitude(40 marks).Second section will be subject specific to Neuroscience and Cognitive science(60 marks)

Ph.D. Programme in Cognitive Science

Selection will be on the basis of an entrance test followed by an interview. However, candidates with JRF (from CSIR, UGC, ICMR, DBT, etc.) have the option to come in for an interview with 40 marks or with the marks obtained in the entrance test (whichever is more) if they satisfy the prerequisite conditions as mentioned above. The question paper for the test will carry 70

objective type questions (70 marks) to be answered in two hours. The question paper will have two sections I and II. The first section will be testing on numerical, verbal and logical aptitude (35 marks). The second section will be research subject-specific (35 marks).

Break up of weightages for Ph.D interviews

Weightage	Marks
1. Research Proposal and its defence:	08 marks
2. Having fellowship/M.Phil/NET/set:	02 marks
3. Research Experience:	05 marks
4. Interview :	15 marks

Faculty

Professors

Prof. Ramesh Kumar Mishra (Head)

Associate Professors

Dr.Sudipta Saraswati
Dr. Joby Joseph

Assistant Professor

Dr.Akash Gautam

Ph.D Vacancies:

Prof. Ramesh Kumar Mishra -02
Dr. Joby Joseph -02

SCHOOL OF ENGINEERING SCIENCES AND TECHNOLOGY

About the School

School of Engineering Sciences and Technology (SEST) was established in the academic year 2008-09 with an objective to "impart research-oriented education and pursue high quality research in emerging multi-disciplinary areas encompassing science, engineering and technology". At present, SEST offers M. Tech. in Materials Engineering, Nanoscience and Technology, Manufacturing Science and Engineering and Ph.D. programmes in Materials Engineering and Nanoscience and Technology and in the near future, SEST intends to offer programmes in other frontier engineering disciplines. SEST provides an ideal environment to pursue cross-disciplinary research in engineering sciences and technology by taking advantage of the well-established facilities and expertise available within the School and in the University campus. SEST also collaborates with premier research institutions located in and around Hyderabad (namely DMRL, IICT, ARCI, NFC, NFTDC and RCI), most of which are also formally recognized as school's external research centres. The school has already been recognized for its excellence by the DST with funding to the tune of Rs. 240 Lakhs under its FIST programme. The school, since its inception, has been able to attract research grant of more than Rs. 1000 Lakhs from various external funding agencies.

Programmes of Study

The School admits students to the M. Tech. (Materials Engineering), M. Tech. (Nanoscience and Technology), M. Tech (Manufacturing Science and Engineering), Ph.D. (Materials Engineering), and Ph.D. (Nanoscience and Technology) programmes.

The **M. Tech.** programme is of two years duration, of which the first two semesters will be devoted to course work. The curriculum lays emphasis on giving a broad exposure to all aspects of Materials Engineering, consistent with the interdisciplinary nature of the subject and students will also be given options in choosing elective courses. The third and fourth semesters will be spent on a research project (under the supervision of a faculty member) leading to a dissertation. The dissertation will be evaluated by an external expert, following that the student should defend the work carried out in a *viva voce* exam. Details of the course structure can be found on the University's website.

The **Ph.D.** programme involves carrying out research in the areas of interest to the faculty members of the School. The candidates have to undergo prescribed course work (as per the UGC guidelines), the successful completion of which is a pre-requisite for confirmation of Ph.D. registration. After completion of coursework, the student will undertake research under the guidance of a faculty member of the School. The research progress of the student is reviewed periodically by a Research Advisory committee (RAC). Based on the recommendations of the RAC, research work can be carried out either within the University or at one of its formally recognized external research centres. The students are expected to actively participate in research seminars and submit progress reports of their research work. The Ph.D. requirements also include presentation of the research work in a comprehensive seminar prior to submission

of the doctoral thesis. Thus submitted thesis will be evaluated by the external experts. Based on the recommendation of the external examiners, the student will be asked to defend the research work in an oral examination in support of the thesis.

Faculty

Professors

DibakarDas, Ph.D. (IIT, Bombay) (Dean of the School)
Jai Prakash Gautam Ph.D. (TU-Delft, The Netherlands)
Vadali V. S. S. Srikanth, Dr.-Ing. (University of Siegen, Germany)
Koteswararao V. Rajulapati, Ph.D. (North Carolina State University, USA)

Associate Professors

Raj Kishora Dash, Ph.D. (RPI, USA)
Swati Ghosh Acharyya, Ph.D. (HBNI, Mumbai, India)

Assistant Professors

Venkata Girish Kotnur, Ph.D. (TU-Delft, The Netherlands)
K. Guruvidyathri Ph.D. (IIT- Madras, Chennai and NTHU Taiwan)

Pratt and Whitney Chair Professor

K. Bhanu Sankara Rao, Ph.D. (University of Madras)

AICTE-INAE Distinguished Visiting Professor

G Padmanabham, Ph.D. (IIT Delhi)

DST-Women Scientist (WOS-A)

Vini Singh, Ph.D. (Oklahoma State University-Stillwater, USA)

Entrance Examination

I. Admission to M.Tech. in Materials Engineering:

Admission to the M.Tech. programme shall be based on a valid GATE score, in order of merit, in Metallurgical Engineering, Mechanical Engineering, Manufacturing Engineering, Production and Industrial Engineering, Aerospace Engineering, Ceramic Engineering/Technology, Chemical , Physics, Chemistry, Engineering Sciences. The number of seats in this programme will be 18. The admission for this programme is through Centralized Counselling for M. Tech., i.e., CCMT.

II. Admission to M. Tech. in Nanoscience and Technology:

Admission to the M.Tech. programme shall be based on a valid GATE score, in order of merit, Metallurgical Engineering, Mechanical Engineering, Manufacturing Engineering, Production and Industrial Engineering, Ceramic Engineering/Technology, Chemical Engineering, Physics, Chemistry, Engineering Sciences, and Electronics Engineering. The number of seats in this programme will be 18. The admission for this programme is through Centralised Counselling for M. Tech., i.e., CCMT.

III. Admission to M. Tech. in Manufacturing Science and Engineering:

Admission to the M. Tech. programme shall be based on a valid GATE score, in order of merit, Metallurgical Engineering, Mechanical Engineering, Manufacturing Engineering, Production and Industrial Engineering. The number of seats in this programme will be 18. The admission for this programme is through Centralized Counselling for M. Tech, i.e., CCMT.

IV. Admission to Ph.D. Programme in Materials Engineering:

Admission shall be based on a written test followed by an interview for short-listed candidates. The written test will consist of objective type questions. As per the UGC 2016 regulations, the question paper of the entrance test shall consist of 50% of research methodology and 50% subject specific questions. The syllabus for the subject related questions will cover some or all of the following disciplines: Mechanical Engineering, Metallurgical Engineering, Ceramic Engineering, Physics, Engineering Sciences, Chemical Engineering, and Manufacturing, Production and Industrial Engineering of BE/B. Tech. level and Physics, Chemistry and Mathematics of M.Sc./B.Sc. level.

JRF qualified candidates are not exempted from the written examination but they will be given weightage as specified.

Course Work Requirements:

Candidates admitted to the Ph.D. programme will be required to undergo a mandatory core course work, besides any additional courses that may be recommended by the research advisory committee (RAC) to meet the demands of their research.

V. Admission to Ph.D. Programme in Nanoscience and technology:

Admission shall be based on a written test followed by an interview for short-listed candidates. The written test will consist of objective type questions. As per the UGC 2016 regulations, the question paper of the entrance test shall consist of 50% of research methodology and 50%

subject specific questions. The syllabus for the subject related questions will cover some or all of the following disciplines: Mechanical Engineering; Metallurgical Engineering; Nanoscience and technology; Physics; Engineering Sciences, Chemical Engineering, Electronics Engineering of BE/B. Tech level and Physics, Chemistry, Environmental Science and Mathematics of M.Sc./B.Sc. level;

JRF qualified candidates are not exempted from the written exam but they will be given weightage as specified.

Course Work Requirements:

Candidates admitted to the Ph.D. programme will be required to undergo a mandatory core course work, besides any additional courses that may be recommended by the research advisory committee (RAC) to meet the demands of their research.

VI. External Ph.D. Registration:

The admission procedure shall be the same as that in the case of regular admissions to the Ph.D. programmes.

Candidates admitted under this category shall be free to work at one of the School's formally recognized external research centres under joint supervision of a faculty member from the School and an approved Ph.D. supervisor from the recognized institution.

Candidates admitted will be required to undergo a mandatory one-semester of core course work, besides any additional courses that may be recommended by the research advisory committee, to meet the demands of their research. Admission under this category will be made only if there are interested faculty members.

VII. Foreign Candidates:

Foreign nationals seeking admission to the M. Tech. (Materials Engineering/ Nanoscience and Technology/Manufacturing Science and Engineering)/Ph.D. (Materials Engineering/ Nanoscience and Technology) programmes should also possess the requisite qualifications as in the case of regular students.
Candidates should have the ability to communicate in English and, in order to support this ability, a good score in TOEFL or a similar internationally recognized test is essential.

In addition, candidates should submit details of the course contents of the qualifying degree as well as letters of reference (including contact information of the referees) along with their application. PhD admission under this category will be made only if there are interested faculty members.

Research Areas

There are six (6) vacancies in Ph.D. (Materials Engineering) in the following areas: *Magnetic ceramics for microwave applications, Computational materials engineering, Waste biomass conversion to useful materials, Laser shock peening of alloy steels and super alloys, Texture development and characterization in electrical steels, Synthesis, characterisation and properties of novel 2D Nanomaterials*

There are two (2) vacancies in Ph.D. (Nanoscience and Technology) in the following areas: *Removal of heavy metal ions from water, Development of novel nanomaterials incorporated smart materials*

It may be noted that these are broad research areas indicated by faculty members, interested in taking PhD students for the current academic year and specific research problems/title of the PhD thesis may vary from these titles.

Areas of Research for PhD (Materials Engineering):

Sl. No.	Faculty Name	Areas of Research	No. of Vacancies
1.	Dibakar Das	Magnetic ceramics for microwave applications	1
2.	K Guruvidyathri	Computational materials engineering	1
3.	VVSS Srikanth	Waste biomass conversion to useful Materials	1
4.	Jaiprakash Gautam	1. Laser shock peening of alloy steels and super alloys 2. Texture development and characterization in electrical steels	2
5.	Raj Kishora Dash	Synthesis, characterisation and properties of novel 2D Nanomaterials	1

Areas of Research for PhD (Nanoscience and Technology):

Sl. No.	Faculty Name	Areas of Research	No. of Vacancies
1.	Swati Ghosh Acharyya	Removal of heavy metal ions from water	1
2.	Raj Kishora Dash	Development of novel nanomaterials incorporated smart materials	1

*Students admitted with academic backgrounds in Electronics Engineering and Environmental Science has to work with Dr. R. K. Dash.and Dr. Swati Ghosh Acharyya, respectively.

COLLEGE FOR INTEGRATED STUDIES (CIS)

In the process of fulfilment of the set objectives of the University and for imparting specialized education to the students after their 10+2 level of education, a College for Integrated Studies (CIS) was established in the year 2006-07 to offer 5-year Integrated programmes in several disciplines leading to a Master's Degree.

Programmes of study

The College offers Master's Degree (5-year Integrated) courses in **Sciences, Humanities, Economics, and Social Sciences subjects.**

The medium of instruction is English for all the courses except the language programmes that are taught in the language concerned. The students admitted to language programmes are required to do some common courses, which are taught in the English medium. Therefore, proficiency in English is essential. The students admitted into the Science programme are required to have proficiency in Mathematics.

All courses are full-time regular courses. Students obtain a Master's degree after 5-years upon fulfillment of the relevant course curriculum. Bachelor's Degree may be awarded to students who exit after fulfilling the course requirement for Bachelor's degree.

Admission Procedure

All eligible applicants will be called for the written test to be held at various centres across the country (see Chapter 2 of Prospectus). Proof of eligibility will be verified at the time of admission.

Written test for each of these programmes is of two hours duration. It will consist of multiple-choice (of four options) questions to be answered in the OMR sheet with black/ blue ballpoint /sketch pen. The level of questions shall be consistent with +2 level of education. There is negative marking; each wrong answer shall be given -0.33 marks. Specific instructions will be given in question papers.

The minimum eligibility requirements and the schedule of the written test for admission to the above courses are given in a tabular form elsewhere in the Prospectus.

M.Sc. (5-year Integrated) Programmes from the Science Schools

The four Science Schools – School of Mathematics and Statistics, School of Physics, School of Chemistry, and School of Life Sciences of the University offer Master of Science (5-year Integrated) programmes, in Chemical Sciences, Mathematical Sciences, Physics, Systems Biology and Applied Geology through the College for Integrated Studies (CIS). The programmes are open to all students who have completed/expect to complete +2 stage with at least three of the four

subjects (Physics, Chemistry, Mathematics and Biology) as their optionals with a minimum of 60% at +2 level. The admission to M.Sc (5-Year Integrated) in Sciences (Mathematical Sciences, Physics, Chemical Sciences, Systems Biology and Applied Geology) will be through a common entrance examination. The entrance examination consists of a written test for 100 marks. The written test paper contains 25 objective questions each in Maths, Physics, Chemistry and Biology at +2 level.

The curriculum is common to all the disciplines for the first four semesters. Students with a biology background at the +2 stage and who had left mathematics after the 10th class are expected to put in the required efforts to learn mathematics. Similarly, students who left biology at the +2 stage are expected to learn biology. Please note that Systems Biology requires a significant amount of Mathematics and Computation throughout the 5-Year programme. The University offers Foundation courses in the first and second semesters to facilitate this process. The students spend first two years of their programmemes at the CIS. The students are transferred to their parent Schools at the end of the fourth semester (if they clear all the regular courses at CIS).

The students are allocated the discipline (subject) of their choice at the time of admission based on their performance in the entrance examination and their preferences.

M.Sc. (5-Year Integrated) Programme in Health Psychology

The Centre for Health Psychology offers M.Sc. (5-Year Integrated) programme in Health Psychology through the CIS. Students who have completed or expect to complete the +2 stage with either Science or Arts subjects with a minimum of 60% marks are eligible to apply for the programme. The students spend two years at the CIS and are transferred to the parent centre at the end of fourth semester (if they clear all the regular courses at CIS).

The admission to the Health Psychology programme is through a written test (100 marks). It includes an aptitude test for Psychology at +2 level and test for proficiency in English.

M.A (5-Year Integrated) Programmes from the School of Humanities

The School of Humanities offers Master of Arts (5-Year Integrated) programmes in four disciplines: Hindi, Telugu, Urdu and Language Science. All students with a minimum of 60% marks at +2 stage are eligible to apply. The students spend the first three years at the CIS where they are exposed to the basics of several disciplines to provide them a broad foundation. They are transferred to their parent departments/centre at the end of the sixth semester (if they clear all the regular courses at CIS).

There is a common entrance test for admission to M.A (5-Year Integrated) in Humanities. The written test carries 100 marks. The question paper will be objective type consisting of three Parts: A, B, and C.

In Part A, there will be 40 questions of one mark each to test the competence in the concerned subject to which a candidate seeks admission.

Part-B will have 35 questions of one mark each to test competence in English.

Part C will have 25 questions of one mark each to test the competence in the current affairs and general knowledge. Candidates should choose concerned subjects (Hindi, Telugu, Urdu and Language Science) in Part-A according to their options. Questions in Parts-B and C will be in English. The questions in Part-A will be in English for Language Science candidates, in Hindi, Urdu and Telugu for those who opt for Hindi, Urdu and Telugu respectively. Candidates will be eligible for admission, only to the subject that they choose for Part A of the written test.

M.A (5-Year Integrated) Programmes from School of Social Sciences and School of Economics

The School of Social Sciences offers Masters of Arts (5-Year Integrated) Programmes in four disciplines: Anthropology, History, Political Science, and Sociology. The School of Economics offers M.A (5-Year Integrated) in Economics. All students with a minimum of 60% at +2 level are eligible to apply for the Social Sciences or Economics programme. The students spend the first three years of their programme at the CIS. They are transferred to their parent schools and departments at the end of sixth semester (if they clear all the regular courses at CIS). The final two years of the M.A. (5-Year Integrated) in Economics programme are common with the M.A. Economics programme or with M.A. Financial Economics programmes allotted as per their choice at the end of third year.

There is a common entrance test for admission to the M.A (5-Year Integrated) programme in Social Sciences and Economics. Written test carries 100 marks divided into four parts (of 25 marks each) consisting of the following: Part A: Social Studies and General Awareness; Part B: Language and Comprehension; Part C: Reasoning Ability; and Part D: Quantitative Aptitude.

The students are allocated the discipline (subject) of their choice at the time of admission based on their performance in the entrance examination and their preferences.

Scribe for Visually Challenged students of CIS Integrated programmes

A scribe for Visually Challenged Students (who joined CIS Integrated programmes) will be provided by CIS during mid-semester/end-semester examinations. The scribe should be a student of UoH; should not have opted the course for which he/she is writing the exam. Scribe charges are paid as per University norms. The scribe should not have been involved in any unfair means / cheating during examination. Allotment of suitable scribe rests with the Office of CIS. **NOTE:** Candidates admitted to I.M.Sc. Chemical Sciences should be able to conduct their experiments on their own. There will be no provision for allowing any assistance or scribe to do the experiments.

Selection Procedure

The following procedure shall be followed for selecting the candidates for different Master's Degree (5-Year Integrated) courses:

All eligible applicants will be called for the written test to be held at 39 centers see Chapter 2.

The written test will be in the form of objective type questions of +2 standard; it will be for two hours duration to be answered in the OMR sheet with black/blue ballpoint /sketch pen. There is negative marking for wrong answers. Specific instructions will be given in the question paper/answer book.

The following criteria shall be followed, one after the other, to resolve the ties, when more than one candidates secure the same total marks in the entrance examination:
First criterion: Marks obtained in the entrance examination (written test).
Second criterion: Marks obtained by the candidates in the qualifying examination at (+2 level). If the final result is not available, then the marks upto the 1st year will be taken into consideration.
Third criterion: Marks obtained in the last lower public examination (SSC/Matriculation or equivalent). Candidates whose result of the qualifying examination (+2 stage) is not declared may also apply for admission, see Chapter 2.

Exit Option

An Exit option has been introduced for students admitted from academic year 2015-16. The salient features of the exit option are:

It is available at the end of three years in the case of M.A. (5-year Integrated) (Humanities / Economics / Social Sciences) / M.Sc. (5-year Integrated) (Sciences) students. Students who exercise the 'Exit option' at the end of three-years of M.A. (5-year Integrated) / M.Sc. (5-year Integrated) will be given B.A./B.Sc. Certificates. Similarly, M.Optom students can seek exit after 4 years and will get degree of B.Optom. Besides, the students interested to continue for M.Optom should have a minimum CGPA of 6.5 in B.Optom.

Students not exercising 'Exit option' will be given two degree Certificates – B.A/B.Sc. and M.A./M.Sc at the end of five-years and B.Optom./M.Optom. at the end of six-years.

The following are the degrees to be awarded for 5-year Integrated students opting for exit option after 3-4 years and after completion of 5/6 years :

S.No.	Course	Subject	Degree to be awarded to those opted for exit option(after 3 years)	Degree to be awarded after completion of the course (after 5 years)
	5-Year Integrated			
1	M.Sc.	Mathematical Sciences	B.Sc. Mathematical Sciences	Two degrees - B.Sc. and 5-Year Integrated M.Sc.
2		Physics	B.Sc. Physics	- do -
3		Chemical Science	B.Sc. Chemical Science	- do -
4		Systems Biology	B.Sc. Life Sciences	- do -
5		Earth Sciences (Till 2017 batch)	B.Sc. Earth Sciences	- do -
6		Applied Geology (from 2019 batch)	B.Sc. Applied Geology	- do -
7		Health Psychology	B.Sc. Psychology	- do -
8	M.A.	Hindi	B.A. Hindi	Two degrees - B.A. and 5-Year Integrated M.A.
9		Telugu	B.A. Telugu	- do -
10		Language Sciences	B.A. Language Sciences	- do -
11		Urdu	B.A. Urdu	- do -
12		Economics	B.A. Economics	- do -
13		History	B.A. History	- do -
14		Political Science	B.A. Political Science	- do -
15		Sociology	B.A. Sociology	- do -
16		Anthropology	B.A. Anthropology	- do -
17	M.Sc.	Optometry and Vision Sciences (till 2017 batch)	B.Sc. Optometry and Vision Sciences (after 4 years)	Two degrees – B.Sc. and M.Sc.
18	M.Optom.	Optometry (from 2018 batch)	B.Optom. (after 4 years)	Two degrees - B.Optom. and M.Optom. (after 6 years)

Faculty

Professors

Sanjay Subodh, Ph.D (Chandigarh) – Medieval Indian Historiography, Science and Technology, Medieval Archaeology (**Director, College for Integrated Studies**).

Krishnaveni Mishra, Ph.D. (JNU): Functional Organization of Eukaryotic Nucleus, Epigenetics and Gene Silencing (**Associate Director, College for Integrated Studies and Head, Department of Biochemistry**).

Centre for Modelling Simulation and Design

Simulation & scientific computing is the third pillar alongside theory and experiment in today's science and engineering, and thus, computer-based simulations form an integral part of modern research methodology. In this era of science-driven engineering, the role of scientific research, based on modelling, simulation and design, is of paramount importance. Industries and academics worldwide are gearing up to avail the challenging opportunities provided by this tool. The primary requisite in using the third avenue of research for solving complex problems was the state-of-the-art High-Performance Computing (HPC) centre.

Based on the innovative proposal from the University, the UGC approved the establishment of the **Center for Modeling, Simulation and Design (CMSD)** in 2002, which was fueled further by generous financial support from DST under its FIST programme. Looking at the multi-disciplinary research done at CMSD and the huge contribution being made by faculty members of various schools, it is decided to start a Four-semester M.Tech. Modeling and Simulation from the premises of CMSD. The objective of the course is to make students ready to take up jobs in the industry and R&D institutions or prepare them for higher studies in their domain of study. The course is designed to give students practical exposure and theoretical rigor equally. Students of this programme will be exposed to emerging areas that require expertise in computational techniques. The HPC resources of CMSD are uniquely suitable for this objective and should prove the ideal platform for this multi-disciplinary programme. The human resources generated from such efforts will be invaluable. The syllabus is designed keeping in mind today's need with perfect balance of courses from various streams supported by HPC courses as core, and courses in AI and ML as electives.

B. Programme Name

- **M.Tech. Modeling and Simulation - 2 Years (4 Semesters) – Full Time**
- With specialization in (only if minimum **THREE** courses are taken from the specialization stream), if not then **M.Tech. in Modeling and Simulation will be awarded**.
    - Computational Chemistry (with School of Chemistry)
    - Computational Materials Engineering (with School of Engineering Sciences & Technology)
    - Computational Biology (with School of Life Sciences)
    - No specialization (with School of Computer and Information Science & Technology)

This is a **four-semester programme** including **two semesters of course work and two semesters of project work (Sem-III & IV).** This programme is meant for students with some basic information about computing sciences, and well-versed with their fields to get specialization. Or else if they are well versed with computer science they can take plain degree by studying advanced courses in Computer Sciences that can be applied to solve grand challenging problems using HPC, ML&AI. Courses will fulfil student-centric learning needs. Students will be encouraged in design thinking and practical approaches to learning. Students will be made aware of real-life socio-economic problems for them to solve using HPC/AI technology learnings.

C. Course Structure

I. **Core Courses:** Because of the heterogeneous nature of the students envisaged for this programme, and it is imperative that the minimum prerequisite knowledge base has to be provided to all students, under the provision of ***core courses***, to bring them to the same level playing field for further training.

Advanced training in emerging areas of applied computer/information science is necessary for all the students aspiring this degree, cutting across the diverse domain expertise. All modern computational scientific research or development programmes require this skill set. So, a few courses with this objective are included in the core module.

II. Optional **Core Courses:** Optional core makes the core of the specialized area of study. A subset of these courses is mandatory for a student to earn a degree in that area of study.

III. **Electives:** Design of the Elective Courses are left for the individual School and generally is expected to be in line with the programme's objective. Additionally, few electives are kept to see the present and future demand of the industry.

D. Intake [Number of seats]: 36 in total (Reservations applicable as per the Government of India norms) + 10 Sponsored = 46

NOTE: As per UGC guidelines, Foreign Nationals will be admitted over and above the approved intake in a course up to a maximum of 15% of the approved intake in the eligible courses, depending upon the availability of adequate infrastructure. All the available seats may not be filled in a particular year Details provided in the prospectus.

E. Admission

1. Based on the valid GATE score (as mentioned)
2. Students will be selected on the basis of Interview for the 10 Sponsored seats.

(Fellowship and Intake for regular students is subject to the approval from AICTE only, being a new course the University has applied for it and waiting for response)

F. Fees:

- Rs.75,000/-(Rupees Seventy Five Thousands) per semester for Sponsored Students

NOTE * Additional Fees as detailed in the prospectus

G. Participating Schools/Departments/Centres

- Centre for Modelling Simulation and Design
- School of Chemistry
- School of Engineering Sciences and Technology (SEST)
- School of Life Sciences
    - Department of System and Computational Biology
    - Department of Biotechnology & Bioinformatics
- School of Computer and Information Sciences

TEACHING AND EVALUATION REGULATIONS

Special features

The special features of the University's academic set up include a favourable teacher-student ratio which is one of the best in India; a flexible academic programme that encourages interdisciplinary courses and research. The assessment, including projects and examinations of the 5-Year Integrated PG/Postgraduate courses, is continuous and internal.

Semester system

The courses are organized on the semester pattern. The academic year consists of two semesters of 16 to 18 weeks each. **July – December** is the **Monsoon** and **January – June** is the **Winter** semester.

Continuous internal assessment

The examination system of the University is designed to test systematically the student's progress in class, laboratory and fieldwork through continuous evaluation in place of the usual "make or mar" performance in a single examination. Students are given periodical tests, short quizzes, home assignments, seminars, tutorials, term papers in addition to the examination at the end of each semester. The final result in each course is calculated based on continuous assessment and their performance in the end semester examination.

Attendance and progress of work

Every student will be eligible for writing the end-semester examinations subject to fulfilling the attendance requirement of 75% of the classes held in all courses (Core, Elective, Foundation, etc.) and participate, to the satisfaction of the School/Department/Centre, in seminars, sessional and practicals as may be prescribed, mandatory.

Important

Students repeating the **same course** will require attendance of **60%** of the classes held in each course.

Students repeating with an **alternative course** will require attendance of **75%** of the classes in that course

The progress of the work of the research scholars and their attendance is regularly monitored by their supervisors.

Absence from classes continuously for 10 days shall make the student liable to have his/her name removed from the rolls of the University. Absence on medical grounds should be supported by a medical certificate which has to be submitted to the Dean/Head of the School/ Department/Centre for consideration of condonation of attendance. Deans of the Schools and Director, College for Integrated Studies can condone the requirement of attendance up to 5% only. Students having attendance below 70% have to repeat the course.

Payment of fee by those students repeating course/s

The student/s who are repeating the course/s, need to pay the prescribed semester fee till completion of course including the idle semester fee in case of re-admission.

Summer Semester

To help the I.MA/I.M.Sc. (5-Year Integrated) students having more backlogs than allowed, classes will be held during May/July subject to the availability of the teachers. This will be offered at the College for Integrated Studies (CIS) for students to clear their backlogs for courses offered at CIS.

Evaluation Regulations

1. The performance of each student enrolled in a course will be assessed at the end of each semester. Evaluation of all P.G., M.Tech and Integrated PG courses is done under the Grading System. There will be 7 letter grades; A+, A, B+, B, C, D and F on a 10-point scale which carries 10,9,8,7,6,5,0 grade points respectively.

2. The final result in each course will be determined based on continuous assessment and performance in the end semester examination which will be in the ratio of **40:60** in case of **theory** courses and **60:40** in **laboratory** courses (practicals).

3. The mode of continuous assessment will be decided by the School Board concerned. The students will be given a minimum of three units of assessment per semester in each course from which the best two performances will be considered for calculating the result of continuous assessment. The record of the continuous assessment will be maintained by the School/Department/Centre.

4. At the end of the semester examination, the answer scripts shall be evaluated and the grades scored by each student shall be communicated to the Dean of the School/Head of the Department/Centre for onward transmission to the Office of the Controller of Examinations. Wherever required, the Dean / the Head of the Department/Centre along with the teacher concerned may moderate the evaluation.

5. Students should obtain a minimum of 'D' grade in each course to pass in the Postgraduate and Integrated PG courses. Students who obtain less than 'D' grade in any course, may be permitted to take the supplementary examination in the course/s concerned within a week after the commencement of the teaching of the next semester or following the schedule notified. Appearance at such examinations shall be allowed only once. Those students who get less than 'D' grade in the supplementary examination also shall have to repeat the course concerned or take an equivalent available course with the approval of the Head of the Department/Centre and the Dean of the School concerned. Such approval should be obtained at the beginning of the semester concerned.

6. (a) A student of PG and M.Tech is expected to clear more than 50 % of the courses offered in that semester to be promoted to the next semester. A student may have a maximum of two backlogs where the number of the courses in a semester is four and a maximum of three backlogs where the number of courses in a semester is more than four at any given point of time including the backlogs of the previous semester if any.

(b) A student of I.M.A./I.M.Sc. (5-year Integrated) is expected to clear more than 50 % of the courses offered in that semester to be promoted to the next semester subject to a maximum of 5 backlogs at any given point of time including the backlogs of previous semester/s, if any.

(c) **I.M.Sc students admitted from 2017-18 must clear all their backlogs accumulated during their first 2 years before moving to the 3rd year or Vth semester. Similarly, I.M.A. students admitted from 2017-18 must clear all their backlogs accumulated during their first 3 years before moving to the 4th year or VIIth semester.** Further, the transfer of students to the respective School/Dept. with up to 2 backlogs in Foundation course/s is permitted. The students will be allowed to write a supplementary exam also after the completion of the summer semester exam to enable them to clear their backlogs if any.

7. The qualifying marks for the dissertation/project report/monograph/ research paper in the M.Tech courses shall be 50%. Students who obtain less than 50% or 'D' grade in the dissertation/ monograph/ research paper will be required to rewrite it within such extra time as may be allowed by the University based on the recommendation of the Supervisor(s) and the Department/Centre/School concerned.

8. Students who are permitted to appear in supplementary examinations in the course/s under clause 5 above will be required to apply to write the examination concerned in the prescribed form and pay the prescribed examination fee by the date prescribed for the purpose.

9. (a) A student to be eligible for the award of M.A., M.Sc., MCA, MBA, MPA, MFA, and Integrated PG Courses must obtain a minimum of 'D' grade in each course. The results of successful candidates will be classified as indicated below based on the CGPA:

CGPA of 8.0 and above and up to 10.0	I Division with Distinction
CGPA of 6.5and above and < 8.0	I Division
CGPA of 5.5 and above and < 6.5	II Division
CGPA of 6.0	II Division with 55%
CGPA of 5.0 and above and < 5.5	III Division

(b) To satisfactorily complete the program and qualify for the degree, a student must obtain a minimum CGPA of 5. There should not be any 'F' grades on records of any student for making himself/herself eligible for award of the degree.

The division obtained by a student will be entered in his/her provisional cum consolidated grade sheet and the Degree certificate.

10. (a) A student to be eligible for the award of the M.Tech. degree must obtain a minimum of 50% in each of the courses she/he takes as well as in the dissertation/project report/ monograph. The results of the successful candidates will be classified as below:

CGPA of 8.0 and above and up to 10.0	I Division with Distinction
CGPA of 6.5and above and < 8.0	I Division
CGPA of 5.5 and above and < 6.5	II Division

There is no III Division in these programmes

(b) To satisfactorily complete the programme and qualify for the M.Tech. degree, a student must obtain a minimum CGPA of 5.5. There should not be any 'F' grades on the records of any student for making himself/herself eligible for award of the degree.

The division obtained by a student will be entered in his/her provisional-cum-consolidated marks sheet and the degree certificate.

11. Students who are not found eligible to take semester examinations and also those who are not promoted to the next semester of the course may be considered for **re-admission** to the concerned semester of the immediately following academic year. Such students should seek **re-admission** before the commencement of the classes for the concerned semester or within a week of the commencement of the concerned semester if they are appearing in the supplementary examinations. Such students are given an option either to undergo instruction for all the courses of the semester concerned or to undergo instruction in only such courses in which they have failed on the condition that the option once exercised will be binding on the student concerned.

12. At the specific written request of the student concerned, answer scripts of the semester examinations may be shown to him/her, but not returned to the candidates. The result of the continuous assessment of the students will, however, be communicated to students immediately after the assessment.

SUPPLEMENTARY EXAMINATIONS

Students who obtain an **"F Grade"** in any of the courses and/ or who absent themselves from the Semester examinations held, inspite of having attendance are eligible to appear for the Supplementary examinations.

Note

Students with shortage of attendance are not eligible to appear for Supplementary examinations.

Special supplementary examinations

i. The PG/Integrated PG students, who after completion of the prescribed duration of the course are left with backlogs are eligible to appear for special supplementary examinations subject to a maximum of two courses where the number of courses in a semester is four and a maximum of three courses where the number of courses in a semester is more than four. Appearance in such examinations shall be allowed only once.

ii. **Students with a shortage of attendance in a course are not eligible to appear for Special Supplementary examinations in that course.**

iii. **Students who are appearing for Supplementary Examinations are not eligible to appear for Special Supplementary Examination for the same course in the same semester.**

iv. The Students of M.Tech/Ph.D. courses are not eligible for **Special Supplementary** Examinations.

IMPROVEMENT EXAMINATIONS

i. This provision is open to all those students with any grade who wish to improve their grades irrespective of the SGPA/CGPA obtained by them. However, the student should clear all the courses of a particular semester in which he/she intends to take an improvement examination. Appearing for Improvement Examinations along with the Supplementary Examinations of the same subject or different subjects simultaneously in a particular semester shall not be permitted.

ii. Students who wish to improve their grades for the papers written in previous semesters are permitted to improve two courses at the end of the second semester and three courses at the end of the third semester and so on.

iii. Students who had already appeared for Improvement examination in a particular course in the semester concerned are not eligible to appear for Improvement examination again in the same course of the Semester concerned. However, the student may appear for Improvement exam/s in other courses/s in the same Semester up to the maximum number of Improvement exams **as per clause C (ii) above.**

iv. Students who had completed the course and wish to improve any of the papers can apply for the same within a maximum period of six months after completion of the course.

Note

Students appearing /applying for supplementary/Improvement/ Special supplementary examinations will not be considered for the award of Medals.

Applying for supplementary/ special supplementary & improvement examinations

i. All the Applications for Supplementary/Special Supplementary & Improvement examinations should be submitted through the e-governance portal and the Hall-tickets for the said exams can be downloaded through the e-governance portal. This applies to all except

ii. Integrated students admitted before 2017 should submit the offline applications to the Exam branch through the concerned Dept. /School and the Hall tickets will be issued after processing of the applications.

iii. The results of the pre-2017 batch students should be sent in hard copy to the office of the Controller of Examinations through proper channel.

Evaluation of M.Tech. CS/AI/IT Dissertation & MCA Project work

1. The dissertation of M. Tech. and M.C.A. project will be evaluated in two phases' viz., mid-term and final. The midterm is for 40% and the final is for 60%.

2. The mid-term and final evaluation will be done by a Board of examiners and the students have to present the work done by them.

3 (i) The provisional certificate-cum-consolidated grade transcript shall contain the CGPA and the division also. This document shall also contain a classification of the results under the letter grade system.

(ii) An additional grade sheet will be given to the students for the audit courses taken by them without attributing the credits, and also for the courses taken by them having credits which are not counted for the award of the degree and the credits scored by them for the extracurricular activities like NSS, literacy programme etc. The audited courses will be included in the additional grade sheet, based on the certification given by the teacher concerned and recommended by the Head of the Department and Dean of the School concerned.

(iii) In the degree certificate, the division will also be mentioned.

(iv) In addition to the above provisions, the existing evaluation regulations in the University shall be applicable in the other matters, wherever required.

Bridge courses for SC/ST Ph.D. scholars

Students from the SC/ST category who are admitted to **Ph.D.** programmes and identified with some academic deficiencies have to take up bridge courses for a maximum period of two semesters to enable them to pass the course work and this period will not be counted against the maximum period (5+1 year) allowed for submission of the thesis.

Ph.D. scholars will be governed by the UGC Regulations, 2016 and its amendments and as approved/ adopted by the Academic Council, which is appended in detail in this Prospectus. All Ph.D. scholars are advised to read the details and comply with the guidelines in their interest.

Grace Marks

The 53rd Academic Council meeting held on 12.10.2004, approved the Prof. V. Kannan Committee report. Accordingly, the provision of awarding grace marks by the Results Committee chaired by the Vice-Chancellor to be continued and a maximum CGPA of 0.02 may be considered as Grace Mark for all Integrated PG and PG courses (**except for M.Tech./Ph.D**.) for securing the following:

a) To secure I Division from Second
b) To secure II Division from Third
c) To secure an overall CGPA of 6.00

After successful completion of the course, a student may represent to Controller of Examinations for consideration of the Grace Mark. This shall be placed before the Results Committee/Vice-Chancellor for consideration and shall be reported to the Academic Council

GUIDELINES FOR SWAYAM COURSE REGISTRATION UNDER MOOCs

Following the UGC (Credit Framework for online learning courses through SWAYAM) Regulations 2016, the following procedure concerning registration of MOOCs courses by the students of University of Hyderabad is prescribed:

a. Students of the University can register for the MOOCs courses offered by the SWAYAM Platform.
b. Further, if these courses are approved by the respective Schools/Departments/Centres which are awarding the Degrees and are floated among the other courses of same or equal credits in that semester, it shall be considered for credit transfer, calculation of CGPA and be reflected in the Provisional Certificate. Academic units will specify whether SWAYAM courses taken by a student are in the place of a core paper/elective or is taken as an extra course.
c. The course mapping of their courses shall be done by the Dean/Head in the e-governance.
d. To coordinate the registration of MOOCs courses at the Academic Unit level, a faculty coordinator is to be nominated by the Dean/HOD. The concerned faculty coordinator will forward the results to CE's Office.
e. Students can register for a maximum of one course per semester under MOOCs.
f. No student shall register for online MOOCs courses during the final semester of his/her programme.
g. If any students take a MOOCs course on his own without the approval of the faculty coordinator or the Academic unit, the credits earned will not count for credit transfer, calculation of CGPA and will not be reflected in the Provisional Certificate. Such SWAYAM course can be considered as additional / extra elective / audit/ courses.

This will apply to the College for Integrated Studies and other Academic Units from 2020-21 for all programmes.

PROCEDURE FOR THE RE-EVALUATION OF ANSWER SHEETS

1. The University will have a system of re-evaluation for the students and it need not be in a form of grievance.
2. The re-evaluation is allowed only for end-semester exam answer sheets (Regular, Supplementary, Improvement, etc.). The re-evaluation is open for theory courses only and not for Project/Dissertation/Practical/Lab Courses/Workshop/Seminars, etc.
3. A student can apply for re-evaluation within 15 days of the reopening of the University.
4. A student can apply for re-evaluation by paying a fee of Rs. 150/- per paper for a maximum of 2 papers only per semester to the Dean/Head of the Academic Unit.
5. The fees paid will be non-refundable and non-adjustable.
6. The Dean/Head of the Academic Unit will arrange to show the answer sheet to the student concerned (along with the concerned Course Instructor) and if the student is satisfied, no further action is required. However, if the student is not satisfied, then the answer sheet may be re-evaluated by a faculty other than the instructor and its recommendations are forwarded to the Controller of Examinations.
7. In cases of re-evaluation, the best of two will be considered as the final marks i.e., before re-evaluation or after re-evaluation. If the difference in marks obtained after the re-evaluation is 10 or more, the answer book may go for a third independent re-evaluation which will be decided upon consultation with the Vice-Chancellor.

8. The Dean/Head of the Academic Unit shall forward the re-evaluation results to the Controller of Examinations within 15 days from the date of receiving the request of re-evaluation from the student.

Note

If a student is not satisfied with the re-evaluation by the School/Department/Centre then, he/she can represent to the Controller of Examinations for getting the paper evaluated by an examiner (to be decided in consultation with the Vice-Chancellor), whose evaluation will be final. The fees for external evaluation in all such cases shall be Rs. 200/- per paper which shall be paid by the student concerned.

15. (a) Students absenting themselves after payment of fees from a regular semester examination are permitted to appear in the supplementary examination subject to fulfilling the attendance requirement. The application for the supplementary examination in the prescribed form along with the prescribed fee should reach the office of the Controller of Examinations through the Department/Centre/School concerned by the date prescribed.

(b) Students may opt for an audit/Extra course within the Department or outside, provided he/she fulfills 75% of attendance requirement for an audit/Extra course for including it in the additional grade sheet.
(c) The option once exercised for audit/extra courses shall be final.

GENERAL GUIDELINES FOR INSTITUTION OF ENDOWMENT MEDALS

The process for instituting an endowment medal is to write a letter addressed to the Controller of Examinations with an objective of instituting a medal with the "title of the medal" and "the criteria for award of medal". The Controller of Examinations will forward the request to the concerned academic unit for their comments and approval of Departmental Committee/School Board. After the said approvals, it will be placed before the Academic Council for recommending to the Executive Council for its approval or it may got approved by the Chairman, Academic Council and Executive Council and be reported to the Statutory bodies. After the approval, the University will inform the donor to deposit Rs.2.00 lakhs for gold plated medal or Rs.5.00 lakhs for pure gold medal by cheque/demand draft in favour of Finance Officer, University of Hyderabad and the medal will be awarded after being incorporated in the Prospectus. The University reserves the right to accept or reject the request of the donor for instituting an endowment medal due to administrative reasons.

MEDALS FOR EXCELLENCE IN STUDIES FOR THE ACADEMIC YEAR 2021-22

Rules and guidelines for determining the toppers for the award of Donor/University/OBC/SC&ST Medals in the 22nd Convocation to be held in year 2021 for students passing out in the Academic Year 2019-20 and 2020-21 .

The following medals will be given to the toppers who have secured the highest marks with the highest CGPA (without attempting/appearing in any improvement and supplementary examinations in their academic tenure of the course) among the other students in their respective courses.

Medals will be awarded to only those who have passed/completed the course in the academic year mentioned above.

If one or more students get the highest marks with the same CGPA among the other students in their respective course during their tenure and stood in the first rank, in such cases, the following criteria will be used:

1. More number of semesters with highest SGPA
2. Better grades in overall core courses taken together
3. Overall attendance in all semesters taken together

A student must have passed with at least First Division or obtained a CGPA of 6.5 and above to be eligible for any medal.

To encourage good performance in studies, the University has instituted several donor medals as detailed below:

S.No.	Name of the Medal	Course/Subject
Donor Medals		
1	M/s Jindal Jubilee Medal	M.Sc. Mathematics
2	M/s Narosa Publishing House Medal	M.Sc. Applied Mathematics
3	Prof. S.N.N. Pandit Medal	M.Sc. Statistics
4	A.P. Mahesh Bank Medal	MCA
5	Bhagwat Saran Agarwal Memorial Medal	M.Sc. Physics
6	Prof. VV Sarma Memorial Medal	M.Sc. Chemistry
7	Prof. A.N. Radhakrishnan Memorial Medal	M.Sc. Biochemistry
8	Sri Jatindra Mohan and Basantilata Medal	M.Sc. Biochemistry
9	KLN Reddy Medal	M.Sc. Plant Biology & Biotechnology
10	Kottapalli Narasayya Medal	For a topper who secures highest marks in core subjects of M.Sc. Plant Biology & Biotechnology
11	Kiran Kumar Medal	M.Sc. Animal Biotechnology
12	Dr. Salam Khan Bio Asia Medal	M.Sc. Biotechnology
13	Pingali Mohan Reddy Medal	For overall performance in PG in Life Sciences
14	Electrotek International Inc., Chennai, Medal	M.Sc. Ocean and Atmospheric Sciences
15	Smt. Rani Devi and Sri Chandra Sen Pathak Memorial Medal	I.M.Sc. Physics
16	Prof. Radhanath Rath Memorial Medal	I.M.Sc. Health Psychology
17	Sarojini Naidu Memorial Trust Medal	M.A. English
18	C T Indra Endowment Medal	M.A. English
19	Smt. Susheela Bala Bose Memorial Medal	The overall topper in M.A Philosophy.
20	Roopchand Chajed (Jain) Medal	M.A. Hindi
21	Prof. P. Ramanarasimham Medal	For a topper in M.A. Telugu who secures highest marks in the following courses put together: i) Introduction to General Linguistics ii) Evolution of Telugu Language iii) Structure of Modern Telugu iv) Comparative Dravidian
22	Sri Nittala Venkata Somayajulu Memorial Medal	M.A. Telugu – Special Reference to literature (Both Classical & Modern)
23	Mahakavi Dasu Sreeramulu Medal	M.A Telugu with special reference to Classical Literature
24	Sri Darla Abbai Memorial Medal	M.A. Telugu with special reference to Indian Poetics & Literary Criticism

25	Dr. Prakash Moonis Memorial Medal	M.A. Urdu
26	Dr.Naushaba Hasnain and Prof. Syed Mohammad Hasnain Medal	For performance in PG courses of School of Humanities with a preference to M.A. Urdu, if the overall marks are 1% less than the topper in other subjects
27	Prof.Bhadriraju Krishnamurthi & Smt. Shyamala Medal	M.A. Applied Linguistics
28	Andhra Bank Medal	M.A. History
29	Alumni Medal (for a topper in Social Anthropology)	M.A. Anthropology
30	M/s Jindal Jubilee Medal	M.A. Economics
31	Shri P. Pattabhi Ramaiah Medal	M.A. Economics
32	Nataraja Ramakrishna Sharada Devi Medal	M.P.A. Dance
33	Sri G.L.N. Murthy Memorial Medal	The overall topper in M.P.A Theatre Arts.
34	Sri S L Parasher Medal	M.F.A. Painting
35	Canara Bank Medal	M.A. Communication
36	Vasavi Academy of Education Medal	M.B.A.
37	SBH Medal	M.Tech. CS
38	Alekhya Technology Medal	M.Tech. AI
39	IDRBT Medal	M.Tech. IT
40	Mannapalli Subbaramaiah Medal	For overall performance in M.Tech. CS/AI/IT
41	C R and Bhargavi Rao Medal	M.Tech. Information Security
42	Tadinada Sri Mahalakshmi Medal	M.Tech. Mineral Exploration
43	Zen Tech Gold Medal	5-Year Integrated M.Tech. Computer Science
44	Dr. APJ Abdul Kalam Medal	M.Tech. Materials Engineering
45	Roopchand Chajed (Jain) Medal	M.Phil. Hindi
46	Akhtar Hassan Memorial Medal	M.Phil. Urdu
47	Prof. G.C. Jain Medal	M.Phil. Urdu
48	Prof. Kishore Saran Lal Medal	The best M.Phil thesis to be adjudged every year in History (special reference to Medieval Indian History 11^{th} to 18^{th} Centuries)
49	Dr. Rajendra Kumar Nigam & Smt. Meera Nigam Medal	The best Ph.D. thesis to be adjudged every year in Plant Sciences

50	Prof. Pallu Reddanna & his Ph.D. and Post Doc. Students Medal	a) Should have published the highest impact factor journal in the Dept. of Animal Biology in that particular year. b) No review papers should be considered for the award. c) Only the first author should be considered. In the case of equally contributing authors, the award goes to the author appearing first in publication. d) Among equally contributing students if the first author appearing in the publication is not from India, then the second Indian author appearing in the publication can be considered. e) Only to be awarded once to a given student. In case the already awarded student publishes a high impact journal in the next academic year also then the award goes to the student next in the list.
51	Dr.Bhaskar Raj Saxena Memorial Medal	The best Ph.D. thesis to be adjudged every year in Hindi
52	Dr. K. Kameswari Devi Memorial Medal	The best Ph.D. thesis in Telugu to be awarded once in two years (even years only)
53	Dr. (Mrs) Sheela Raj Memorial Medal	The best Ph.D. thesis to be adjudged every year in History
54	Prof. A.S. Dash's Medal	Ph.D. Psychology (Best Ph.D. Thesis)
55	Rai Narhari Pershad Medal	The best Ph.D. thesis to be adjudged every year in the Department of Sanskrit Studies. If Ph.D. thesis is not available, then medal will be given to best M.Phil. Dissertation in the Dept. of Sanskrit Studies.
Donor Medals for women toppers		
56	Prof. M. Shakuntala Memorial Medal	M.Sc. Physics
57	Sri Pradyumna Kumar Bose Memorial Medal	The woman topper with highest CGPA in M.Sc. Chemistry.
58	Dr. B. Venakta Rama Sastry Memorial Medal	M.Sc. Biochemistry (in the absence of woman topper), then for overall performance in PG in Life Sciences
59	Smt. Shibani Ray and Dr. Timir Kumar Ray Memorial Medal	M.Sc. Animal Biology & Biotechnology

60	Bijali Prabha Roy Choudhury Memorial Medal	The woman topper with highest CGPA in M.A. Philosophy. (If there is only one woman student graduating in a particular year, the medal will not be awarded in that year.)
61	Smt. Ravuri Kantamma Bhardwaja Medal	M.A. Telugu
	A.P. History Congress Medal	M.A. History
62	Smt. Bodicherla Krishnamurthy Nagalakshmi Memorial Medal	M.A. History
63	Prof. G. Ram Reddy Memorial Medal	M.A. Political Science
64	State Bank of India Medal	M.A. Economics
65	Ms. Uma Devaguptapu Memorial Medal	M.B.A. General

University Medals for PG Courses (Toppers)		
66	M.Sc. Molecular Microbiology	
67	M.Sc. Health Psychology	
68	Master of Public Health (M.P.H)	
69	M.A Comparative Literature	
70	M.A. Political Science	
71	M.A. Sociology	
72	M.A. Anthropology	
73	M.B.A. Health Care and Hospital Management	
74	M.B.A Business Analytics	
75	M.F.A Print Making	
76	M.F.A Sculpture	
77	M.F.A. Art History and Visual Studies	
University Medals for Integrated PG Courses (Toppers)		
78	I M.Sc. Mathematical Sciences	
79	I M.Sc. Chemical Sciences	
80	I M.Sc. Systems Biology	
81	I M.Sc. Optometry & Vision Sciences	
82	I M.Sc. Applied Geology	
83	I.M.A Hindi	
84	I M.A Telugu	
85	I M.A Language Sciences	
86	I M.A Economics	

87	I M.A History	
88	I M.A Political Science	
89	I M.A Sociology	
90	I M.A Anthropology	

SC/ST Medals

The University has instituted medals for securing the first rank with first-class among the SC/ST students in various examinations at Integrated and Master's degree level in the year 1991 – the birth centenary of Bharat Ratna Dr. B.R. Ambedkar.

OBC Medals

The University has instituted medals for securing the first rank with first-class among the OBC students in various examinations at Integrated and Master's degree level from 2019 onwards.

Note: University Medals, SC/ST Medals and OBC medals will be awarded for first rank with first class students at the Master's degree level provided the total number of students appeared in the examination is not less than ten.

CHANGE OF NAME OF THE STUDENT

The 84th Academic Council at its meeting held on 22.3.2019 approved the following guidelines for **change of his/her name** in University records:

1. A provision will be made in e-governance Students log in, which will prompt the students twice to check his/her name as per SSC/X Certificate in the 1st semester of studies.
2. All students will be admitted strictly as per their names in SSC/X Certificate.
3. After the Gazette notification of name change, the university will recognize his/her new name from the date of notification onwards and issue certificates with the changed name along with alias name.
4. Request for change of name will not be entertained from a person who is not a student of the University at the time of making the application for change of name.

MALPRACTICES (PREVENTION AND DISCIPLINARY ACTION) RULES

In pursuance to the approval of the guidelines recommended to deal with cases of malpractices by the 76th Academic Council, the following rules are herewith notified. They shall be known as Malpractices (prevention and disciplinary action) rules:

A) DISCIPLINARY ACTION FOR MALPRACTICES / IMPROPER CONDUCT IN EXAMINATIONS

	Nature of Malpractice/Improper conduct	Disciplinary action
1 (a)	If the candidate possesses or arranges access in the examination hall, any paper, notebook, programmable calculators, Cell phones, pager, palm computers or any other form of material (in any form) concerned with or related to the subject of the examination (theory or practical) in which he is appearing but has not made us of (material shall include any marks in any format (diagrams, clues, writing) on the body of the candidate which can be used as an aid in the subject of examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	If the candidate gives assistance or guidance or receives it from any other candidate orally or by any body language methods or communicates through any means with any candidate or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that paper only of all the candidates involved. In case of an outsider, she/he will be handed over to the police and a case is registered against him/her.
2	If the candidate has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical

	relevant to the subject of the examination (theory or practical) in which the candidate is appearing.	examination and project work and shall not be permitted to appear for the remaining examination of the subjects of that Semester/year. The Hall Ticket of the candidate will be canceled and sent to the University.
3	If the candidate impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from the examination hall and shall forfeit the admission. The performance of the legitimate candidate, who has been impersonated, shall be canceled in all the subjects of the examination (including practical and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The candidate is also debarred for two consecutive semesters from classwork and all University examinations. If the imposter is an outsider, he will be handed over to the police and a case is registered against him/her.
4	If the candidate carries in the Answer Book or Additional Sheet or takes out OR arranges to send out the question paper during the examination OR answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of the performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from admission classwork and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with the forfeiture of admission.
5	If the candidate uses objectionable, abusive or offensive language in the answer paper, or letters to the examiners or communicates with the examiner in any form requesting her/him to award pass marks or makes any other request.	Cancellation of the performance in that subject.

6	If the candidate leaves the exam hall taking away answer script or intentionally tears off the script or any part thereof making it illegible in any form or outside the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all the other papers the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from admission classwork and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with the forfeiture of admission.
7	If the student of the School, who is not a candidate for the particular examination or any person not connected with the school indulges in any malpractice or improper conduct.	Student of the school: expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the admission. Person(s) who do not belong to the School/University will be handed over to the police and a police case will be registered against them.
8	Copying detected based on internal evidence, during evaluation or special scrutiny as may be undertaken by the University.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations.
9	If any malpractice/misbehaviour is detected which is not covered in the above clauses 1 to 8 shall be reported to the University for further action to award suitable disciplinary action.	

Note

No supplementary examination shall be permitted for those students who are caught in cases of malpractice.

B) The following shall be ensured by the School in preparations for examinations:

1. Physical (seating) arrangement shall be handled by the school in such a way that the concerned teacher can effectively invigilate.
2. All stationery shall be provided by the school in the examination hall.
3. Mobile phones and other such devices, except for calculators (where approved by the faculty) shall be allowed in to the examination hall.

4. The question paper shall be brought in by the concerned teacher and the responsibility shall be lying with the concerned teacher.
5. Washrooms/lavatories etc to be cleared one day before the examination begins and every day thereafter till the end of the examinations.

As internal examinations (continuous evaluation) also affect term-end examinations, the following rules shall be followed with regards to the conduct of internal examinations:

1. The teacher shall conduct a test each month avoiding the month in which end-semester exams are conducted.
2. The concerned faculty should mandatorily invigilate the semester-end examination of his/her course.
3. The Deans/HoD will ensure that tests are conducted every month using such means as found suitable.

C) Distribution of roles and responsibilities in the examination hall:

S.No.	Students	Responsibilities	
		Faculty	School / Dept. Administration
1	Shall not carry any material, phones except instruments to write, scale, pencil, scientific Calculator. Only admit card and stationery shall be permitted	Shall ensure the same	Frisking before entering the hall including checking for writing on the body, hands, etc.
2	Shall not talk, Communicate in any manner with anyone except the invigilator	Shall invigilate personally with the assistance of scholars, office staff as needed	Shall provide water etc. so that movements of the students are restricted
3	Shall not be allowed to go out during the first half-hour and not more than once during the examination	Shall ensure that not more than one student goes out of the hall at any given time	

Mode of Implementation

If a student is caught for malpractice by any official concerned with the conduct of examination, he shall be handed over to the Dean of the School. The Dean of School shall identify the Nature of malpractices/Improper conduct as indicated from 1 to 8 or 9 as the case may be in the table above at A, and forward all such cases to the Office of the Controller of Examination. The office of the Controller shall process the complaints and hand out disciplinary action as per the recommendations given against each case in the table at A.

The above rules are in force with effect from July 01, 2016.

GUIDELINES ON ANTI-PLAGIARISM ASPECT OF THESES/DISSERTATIONS

1. The similarity index for all thesis/dissertations, for Ph.D., M.Phil. and M.Tech shall be capped at 10%.

2. If a student is the first author, the similarity index of that publication is to be ignored while calculating the overall similarity index.

3. Where the student is not the first author, the matter shall be taken upon a case by case basis on the recommendation of the supervisor and the HoD/ Dean of the school.

4. Either the paper published or the acceptance letter and abstract on the journals letterhead/ official e-mail shall be required to be enclosed along with the thesis as annexure. This may also be mentioned in every chapter, if applicable, along with the details of the journal where the paper was previously published.

5. a. The format of the Certificate to be attached to the Ph.D. thesis is enclosed at Annexure 1.

b. The format of the certificate to be attached to M.Phil and M.Tech dissertations is enclosed at Annexure 2.

6. All efforts may be made so that the thesis/dissertation should not be a mere reproduction of the publications. The practice of using the complete extract of the publications in the theses/dissertations is to be discouraged and the supervisors should encourage the students to rewrite their papers.

Annexure 1



CERTIFICATE
(For Ph.D. Thesis)
This is to certify that the thesis entitled _____
Submitted by_____bearing registration number _____
in partial fulfilment of the requirements for award of Doctor of Philosophy in the School of _____ is a bonafide work carried out by him/her under my supervision and guidance.

This thesis is free from plagiarism and has not been submitted previously in part or in full to this or any other University or Institution for the award of any degree or diploma.

Further, the student has the following publication(s) before submission of the thesis/monograph for adjudication and has produced evidence for the same in the form of acceptance letter or the reprint in the relevant area of his research: (Note: at least one publication in referred journal is required)
1._____(ISBN/ISSN Number_____),
Chapter of thesis where this publication appears (delete if not applicable) _____,
2._____,
Chapter of thesis where this publication appears (delete if not applicable) _____
And has made presentations in the following conferences :
(Note: Delete if not applicable)
1._____, (National/International)
2. _____, (National/International)

Further, the student has passed the following courses towards the fulfilment of the coursework requirement for Ph.D. has been exempted from doing coursework (recommended by the Research Advisory Committee) based on the following courses passed during his M.Phil program and the M.Phil degree awarded:

Course Code	Course Title	Credits	Pass/Fail
1.			
2.			
3.			
4.			

Supervisor Head of Department Dean of School

Annexure 2



CERTIFICATE
(for M.Tech. Dissertation)

This is to certify that the dissertation entitled "…… …… submitted by …… bearing Registration No. …….. in partial fulfillment of the requirements for the award of ……..in (subject)……is a bonafide work carried out by him/her under my/our supervision and guidance which is a Plagiarism free thesis

The thesis has not been submitted previously in part or in full to this or any other University or Institution for the award of any degree or diploma.

Supervisor/s Head of the Department/Centre Dean of the School

CHARTER OF SERVICES WITH TIME DURATION

Sl. No.	Examinations Section	Time Duration
1	Degree Certificate at Convocation	Not applicable
2	Degree in-absentia	Within 25 Days after Convocation
3	Degree before Convocation	20 Days
4	Degree for Foreign Nationals	20 Days
5	Issue of duplicate Degree Certificate	One month
6	5-Year Integrated PG/PG/ M.Phil / M.Tech / Ph.D-ProvisionalCertificate	14 Days
7	Revised Corrected Semester Grade Transcript	7 Days
8	Revised Corrected PG/M.Phil / M.Tech ProvisionalCertificate	7 Days
9	All Kinds of certificates like Medium of Study and Course Completion, UGC Regulations 2009/ 16 and NET Exemption certificate	4 Days
10	To Certify Official Transcripts	2 Days
11	Permission for Recourse/Repeat	7 Days
12	Permission for Supplementary/ Improvement Examination Special Supplementary Examination	4 Days
13	Miscellaneous (Rank Certificate etc.)	4 Days

NOTE

1) No. of working days mentioned above is excluding the day of submission and holidays.
2) The requests should be routed through proper channel and complying with the required conditions.
3) Students need to show their ID cum semester registration card.
4) All Certificates have to be collected from the respective sections between 3-5 pm after the prescribed duration.

Charges/Fees for the issue of various certificates

It is notified for the information of all concerned that the Charges/ Fees prescribed for issuing of various certificates by Academic/ Examination branch have been revised as approved by the Finance Committee at its meeting held on 17-12-2018 which are as under.

Sl. No.	Description of Service		Charges/ Fee (Rs.)
1	Original Degree Certificate at Convocation		700
2	Original Degree in-absentia (Including Postal Charges)		1000
3	Original Degree before Convocation		1200
4	Original Degree for Foreign Nationals		$100
5	Issue of duplicate Original Degree Certificate		3000
6	Provisional Certificate	PG	250
		M.Phil./M.Tech.	500
		Ph.D.	1200
7	Revised Corrected Semester Grade Sheet		100
8	Revised Corrected PG/ M.Phil. / M.Tech Provisional Certificate		100
9	All Kinds of temporary certificates (Medium of Study, Course Completion, CGPA, Rank Certificate, etc.)		100 Each
10	Certification Official Transcripts		100 Each
11	Permission for Supplementary/ Improvement Examination Special Supplementary Examination & Repeat/ Recourse Examination - All courses of Integrated PG, PG, M.Tech, M.Phil. & Ph.D.		50 Per Course + (100 for Grade sheet)
12	Ph.D./M.Phil. UGC Regulations Certificate		100
13	Issue of Duplicate	Provisional Certificate	300
		Grade Sheet (Each)	200
14	Late Fee for OD after Convocation		500 (for every delayed year)
15	Postal Charges for Dispatch of Certificates		100
16	Bonafide Certificate		100
17	No Objection Certificate for Visa application/ Attending Seminar Conferences, Fee Paid Certificate, etc.		100
18	Re-admission for all Integrated P.G./ P.G. courses		300
19	Issue of Transfer-	Course Completed for All P.G. courses	300

	cum- Migration & Bonafide Certificate	Discontinued TC/BC for all courses	50
20	Duplicate Transfer/Migration Certificate		300
21	Duplicate Semester-cum-ID card		150
22	Late Semester Registration		700

IMPORTANT

Students who have completed their courses must collect their certificates within a maximum period of one year from the date of convocation in which they have been declared eligible for the award of their respective degrees failing which holding charges @ 500/- per annum will be applicable as shown in Sl. No.14, in addition to the prescribed fee mentioned in the above table, shall be paid by the students concerned. The above charges are w.e.f. Jan 01, 2019.

APPENDIX – II [Academic Ordinance]

Rules for preservation of various records concerning academic & examination matters

S.No	Name of the record	Period of preservation in the Section
1	Files containing the approval of admissions to various courses	Two years
2	i) Personal files of students along with their applications for admission: a) Those awarded degrees by the University. b) Who discontinue without completing their studies ii) Applications of rejected candidates	 One year after the Convocation in which the degree is awarded to the concerned student One year after the withdrawal of admission One year after the closure of admission
3	Legal cases concerning admissions	Three years from the year of admission/case being filed
4	Enrolment Register	Permanent
5	Evaluated OMR/answer books of the candidates for the Entrance Examination	To be destroyed after one year of the date of the entrance examination by the concerned School/Department/Centre.
6	Question papers for the Entrance Examinations	To be uploaded in website and one set with the Controller of Examinations
7	Any confidential work of Entrance Examinations	All records to be destroyed after completion of the concerned examinations.
8	Attendance records of students	To be preserved by the respective Schools / Department/Centres and destroyed after one year of completion of the prescribed course
9	Year Book concerning student admissions, enrolment, the award of scholarship, etc.	Permanent one bound copy to be preserved by the Controller of Examinations
10	Disciplinary cases	One year after completion of the course by the concerned student
11	Tabulation Register	Permanent
12	End- Semester Result files	Permanent
13	Result Notification (Final Examinations)	Permanent One set by the Controller of Examinations and one by the concerned School/Dept./Centre
14	Degrees/Medals received back undelivered	Permanent till they are delivered
15	Cancelled degrees	One year after the Convocation and thereafter to be counted and destroyed by the CE in the presence of at least 3 Officers

16	Order of presentation degrees at the Convocation duly signed by the Vice-Chancellor/Chancellor	Permanent with the Controller of Examinations
17	General correspondence regarding manufacture and award of medals	One year after Convocation
18	Answer books of end-semester examinations	To be destroyed after one year of the end-semester exam by the concerned School/ Department/Centre
19	Examiner's reports on M.Phil/M.Tech/Ph.D dissertation/ project report/ thesis	Permanent
20	File concerning the award of honorary degrees	Permanent
21	Question papers of the end-semester examinations	One set of question papers for each semester to be preserved by the School/Department/Centre/ Library for 5 years
22	Thesis/Dissertation copies of Ph.D./M.Phil./M.Tech.	INFLIBNET Shodhganga
Note: Examination records will be preserved in the Section itself		
23	Agenda and Minutes of Academic Council/Standing Committee of the Academic Council.	Permanent
24	Agenda and Minutes of School Boards	Permanent to be kept in the custody of the Dean of the School concerned
25	Agenda and Minutes of Departmental Committees	Permanent to be kept in the custody of the Head of the Department/Centre concerned.

Brief Summary of Minimum Standards and Procedure for Award of M.Phil/Ph.D. Degrees, as per UGC Regulations 2016 and its adoption by the Academic Council for M.Phil./Ph.D. students admitted from 2017-18 onwards and as amended from time to time.

S.No	Content Items	Resolution of the Academic Council	
		M.Phil	Ph.D.
1	Eligibility criteria for admission	Master's degree or equivalent professional degree with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale or an equivalent grade	1) Same as M.Phil. 2) Candidates who have cleared the M.Phil course work with at least 55% marks in aggregate; or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale in a grading system) and have completed the M.Phil. Degree shall be eligible to work towards the Ph. D. Degree in the same Institution within an integrated programme. A person whose M.Phil dissertation has been evaluated and only the viva voce is pending may be admitted to the Ph.D. programme of the same Institution. A relaxation of 5%, from 55% to 50%, or an equivalent relaxation of grade, may be allowed for those belonging to SC/ST/OBC (Non-Creamy Layer)/differently-abled and other categories of candidates as decided by the Commission from time to time.
2	Duration of the programme	For M.Phil: Min. duration: 2 semesters or 1 year (including course work) Max duration: 4 semesters or 2 years Under 4.4: Max duration for women & PWD: 6 Semesters or 3 years No extension is required till 3rd semester of registration. Under 4.4, for women & PWD: Additional relaxation of 1 year i.e. up to 3 years from the date of admission. Candidates will have to apply for the extension period beyond 2 years up to 3 years and will have to do semester registration.	For Ph.D.: Min. duration : 3 years (including course work) Max duration: 6 years Under 4.4: Max duration for women & PWD: 16 Semesters or 8 years No extension is required until 6 years of registration. Under 4.4, for women & PWD: Additional relaxation of 2 years i.e. up to 8 years from the date of admission. Candidates will have to apply for the extension period beyond 6 years up to 8 years and shall have to do semester registration.
3	Procedure for admission	Admission to M.Phil /Ph.D. students shall be through an Entrance Test conducted at the level of individual University/Institution Deemed to be a University. The University/Institution Deemed to be a University may set separate terms and conditions	

		for the Ph.D. Entrance Test for those students who qualify in UGC-NET (including JRF) / UGC- CSIR NET (including JRF) /SLET/GATE/, teacher fellowship holders, or those who have obtained an M.Phil degree. A similar approach may be adopted for the M.Phil programme. An Entrance Test with qualifying marks as 50% for General category/ EWS and 45% for SC/ST/OBC/PWD category. The syllabus of the Entrance Test shall consist of 50% of research methodology and 50% shall be subject-specific. Candidates appearing in the entrance test will be called for interview as per the ratio approved by the Academic Council from time to time. The final selection for admission for M.Phil/Ph.D. will be based on the performance in the Entrance and interview. The School/Department/Centre may give some weightage within the interview marks like any appropriate fellowships, gold medals, and distinctions as decided by the respective Admission Committees for the academic year which will be put on the website. All members of the Admission Committee including SC/ST/OBC representative (except co-opted members) will award marks to all candidates. 'Department Research Committee' (DRC) of the UGC Regulations, will be called as the Admission Committee in UoH. All faculty members are eligible to serve as members of the Admission Committee subject to the condition that their dependents/relatives are not appearing in the Entrance Exam for admissions to their School/Dept./Centre. The Chairperson, Admission Committee will take an undertaking from all members in this regard. Admission, whether regular, part-time or external, will be through the same modes of admission as above. The cut-off date for calculating the intake for July session will be on 31st March of that year; for the January session the cut- off date will be 30th September of the previous calendar year. There will be no admissions to M.Phil/Ph.D. under the Foreign National/Kashmiri Migrant and DP category. 5% of PH seats will be earmarked within the Intake in July session. No change in intake is to be done after the cutoff date for each session.
4	Allocation of Supervisor	Only full-time regular faculty shall be Supervisors. The Departmental Committee/School Board is to ensure allotment of supervisors to all M.Phil/Ph.D. candidates within one month of admission, duly notifying the Controller of Examinations. The Department Committee / School Board, besides constituting the RAC and identifying broad area/s of research, will also assess requests for change of supervisor, etc. Faculty

		i. must have more than 3 years of service for superannuation to be a supervisor; ii. must have more than 1 year of remaining service to be a Co-supervisor; iii. must have a Ph.D. or equivalent degree to be a Supervisor; iv. Joining the university through Direct Recruitment or promoted under CAS on or after 20-3-2017 should also fulfill the criterion of the required number of publications in the refereed journals of UGC, as mentioned in the para 6.1 of UGC Regulations, 2016 to be eligible to be supervisors. Re-employed/Contract faculty cannot be Supervisors/ Co-supervisors. Only full-time, regular Faculty/Scientists of External Centres may serve as Co-Supervisors, subject to fulfilling the eligibility criteria stated in paras 6.1 and 6.5 of the UGC Regulations 2016. Superannuating faculty, after guiding a student for 3 years or more, may decide whether they wish to continue as supervisors. If such is not the case, the Dean/Head shall make alternate arrangements to allot a Supervisor to the student under intimation to the School Board. If a faculty proceeds on long leave/sabbatical/study leave/EoL or resigns etc. then Dean/Head shall make alternate arrangements under intimation to the School Board. The maximum number of students who may be supervised at any given point of time by a Professor, an Associate Professor, Assistant Professor are as follows: Professors: 8 Ph.D. + 3 M.Phil. Associate professor: 6 Ph.D. + 2 M.Phil Assistant Professor: 4 Ph.D. + 1 M.Phil. In the School/Department/Centre where there is no M.Phil programme, faculty may guide Ph.D. students treating 2 M.Phil as equivalent to 1 Ph.D. De-registered/re-registered (before 2017-18 batch) and regular Ph.D. students (until submission of their theses) and the M.Phil students (until submission of their dissertations) will be counted against the quota available with the faculty.
	In case of relocation of an M.Phil/ Ph.D. woman scholar due to marriage or otherwise.	Women scholars are allowed to relocate to another institution, provided they have secured the seat in the other institution through a proper/regular admission process. The applicant should obtain a "No-Objection" certificate from the University of Hyderabad through proper channel permitting her to transfer research data and should give due credit to the Supervisor and the University of Hyderabad in her thesis/dissertation.
5	Course work	Course work for M.Phil/Ph.D. will be of 12-14 credits. 2 credit course on "Research and Publication Ethics (RPE)" to be made compulsory for all M.Phil/ Ph.D. students from

		2020-21. During the course work, the students are expected to meet the attendance requirements as mandated by the University. Course work is to be completed one year after taking admission, failing which the student's admission to the programme will stand cancelled. M.Phil/Ph.D students can appear in Regular and Supplementary Exam in each semester. There is no provision for Improvement or Special Supplementary exam to be conducted. The Academic Units should offer the courses in the all semesters as admission to PhD will be in 2 sessions and for the students who have failed in their 1st semester and conduct the Regular and Supplementary Exam to give students a chance to complete the course work within one year. **Failure to complete the course work within one year means that the students have to leave the programme**. In course work for M.Phil and Ph.D., the pass percentage is 55% or a CGPA of 6.0. To continue the M.Phil/Ph.D. further, a candidate should acquire a CGPA of 6.0 in all course work taken together. In the Ph.D. coursework, the Results and Grade sheets will only carry Pass/Fail results. Grading for M.Phil/ Ph.D courses is as follows : 80 < 100 A+ 75 < 80 A 65 < 75 B+ 60 < 65 B 55 < 60 C A grade sheet will be issued for the course work done. The Ph.D. course work is mandatory for all students, however, it may be exempted, if a student is admitted after completion of M.Phil. in the same subject/area (with 12-14 credits including the course on Research Methodology) on the recommendation by Research Advisory Committee (RAC) of the School/Dept./Centre subject to fulfilling the other requirements. The request for exemption should be made in the 1st semester of his admission only. An order shall be issued in this regard from the office of Controller of Examinations. No requests for exemption of course work will be accepted after the 1st semester.	
6	Research Advisory Committee (Earlier Doctoral Research Committee)	Research Advisory Committee for M.Phil students: Supervisor + 1 Member The RAC will meet every semester and send its recommendations for all candidates in terms of their work in progress. The RAC will also report cases of irregularity/ unsatisfactory performance and absenteeism to the Controller of Examinations through	RAC for Ph.D. Supervisor/s+ 2 members Supervisor to be Convener. The RAC will meet every semester and send its recommendations for all candidates in terms of their work in progress. The RAC will also report cases of irregularity/ unsatisfactory performance and absenteeism to the Controller of Examinations through Head/ Dean. RAC recommendation is

		Head/ Dean. RAC recommendation is essential for semester registration/ extension.	essential for semester registration/extension.
7	Evaluation and Assessment Methods, minimum standards/credits for award of the degree	M.Phil: Course work 12 – 16 credits Ext. Examiner's report 04 Credits Supervisor's report 04 Credits Pre-submission 02 Credits Viva-voce 02 Credits --- Total of 24 Credits --- Open viva-voce to be conducted for M.Phil. Students admitted from 2017-18 in the presence of the external examiner.	The Ph.D. thesis submitted by a research scholar shall be evaluated by his/her Research Supervisor and at least **two** external examiners, employed outside the Institution/College where the research was undertaken, and one examiner may be from outside the country. The viva-voce examination shall be conducted by the Research Supervisor and at least one of the two external examiners.
		The External Examiners for the M.Phil/Ph.D. thesis should be of the level of Associate Professor/ equivalent and above. If the external examiner of the M.Phil dissertation or one of the external examiners of the Ph.D. thesis declares the work as "unsatisfactory" (rejected), the thesis may be sent to the next examiner. If the second report also declares the work as "unsatisfactory" (rejected) then the dissertation/thesis stands rejected. In case an examiner suggests that corrections (typographical, grammatical, etc.) have to be carried out, the supervisors are to ensure the corrections are incorporated and that the dissertations/theses are error-free. Copies (both hard and soft) are to be submitted at the time of viva-voce and these are to be forwarded to Controller of Examination's office.	
	Presentation	*To adopt appropriate methods to complete the entire process of evaluation of M.Phil. Dissertation/ Ph.D. thesis within six months from the date of submission of the dissertation/thesis.* It was resolved in the 82nd Academic Council meeting held on 15-9-18 to approve the following for evaluation of all M.Phil/Ph.D. dissertations/ theses in the University: The panel of examiners submitted by the Supervisor and approved by the School Board should mandatorily contain the name, address, web-link of the examiner (or brief CV of the examiner), phone No., mobile No., and email address. In the absence of any of the above, the panel will not be processed and will be returned to the Dean of the School. The dissertation/thesis should be sent along with the details of the student's course work done/ publications/ papers presented and plagiarism report for processing, in the correct formats. The Supervisors/ Co-supervisors (if any) shall submit their reports within 15 days of submission of the M.Phil/Ph.D. thesis. The examiners in the panel of examiners shall be	

<table>
<tr><td></td><td>s and Publications</td><td colspan="2">of the level of Associate Professor or equivalent and above only. The examiners should be willing to examine the thesis.
The following schedule will be followed for the evaluation of Ph.D. Thesis.

<table><tr><td>Email of synopsis</td><td>15 days</td><td>Reminder after 10 days and wait for 5 days. If no response, CE's office to contact the alternate examiner automatically.</td></tr><tr><td>Sending of thesis</td><td>6 weeks</td><td>Gentle reminders after 4th week and 5th week, alerting the examiner about the last date, and regular reminders after 6 weeks. CE's office to contact the examiner and expedite the process if the report is not received by the end of 7 weeks.</td></tr><tr><td>After receiving the viva-voce report</td><td>One week to declare the result and issuing of Provisional Certificate.</td><td>One week to declare the result and issuing of Provisional Certificate.</td></tr></table>The Deans/ Heads/ Supervisors should fix the date of viva-voce (of M.Phil/ Ph.D.) within a week of receiving the reports and inform the Controller of Examination's office.
In the case of M.Phil, the time given to External Examiner for evaluation shall be one month.
The Supervisors should not contact the external examiners and confidentiality should be maintained. In case of any breach of confidentiality, the evaluation may be cancelled.
The Supervisors should not put pressure on the CE's office for getting the reports from the external examiners before the duration given to the examiner is over. However, the CE's office shall try to get the reports at the earliest as per the schedule and declare the results within the maximum period of six months, but preferably within 3 months from submission.

M.Phil scholars shall present at least one (1) research paper at a conference/seminar; Ph.D. scholars must publish at least one (1) research paper in a refereed journal and do two paper presentations in conferences/seminars before the submission of the dissertation/thesis for adjudication. They must attach evidence for the above in the form of presentation certificates and/or reprints.</td></tr>
<tr><td>8</td><td>M.Phil./Ph.D through Distance Mode/part-time</td><td colspan="2">No University, Institution, Deemed to be a University and College shall conduct M.Phil and Ph.D. Programmes through distance education mode.</td></tr>
<tr><td></td><td></td><td></td><td>Part-time and external Ph.D. will be allowed at the time of admission provided all the conditions mentioned in the extant Ph.D. Regulations are met. The students shall complete the course within the maximum</td></tr>
</table>

			duration of the programme as stipulated in Para 4.2 of UGC Regulations 2016. However, the conversion from regular to Part-time is not allowed.
9	Award of M.Phil./Ph.D degrees before Notification of these Regulations, or degrees awarded by foreign Universities	Award of degrees to candidates registered for the M.Phil/Ph.D. programme on or after July 11, 2009, till the date of Notification of these Regulations shall be governed by the provisions of the UGC (Minimum Standards and Procedure for Awards of M.Phil /Ph.D. Degree) Regulation, 2009. If the M.Phil/Ph.D. degree is awarded by a foreign university, then the University shall consider such a degree by referring the issue to a Standing Committee constituted by the Academic Council to determine the equivalence of the degree awarded by the foreign university.	
10	Depository with INFLIBNET	Following successful completion of the evaluation process and before the announcement of the award of the M.Phil/Ph.D. degree(s), the Institution concerned shall submit an electronic copy of the M.Phil. Dissertation /Ph. D. thesis to INFLIBNET. Before the actual award of the degree, the degree-awarding Institution shall issue a Provisional Certificate to the effect that the Degree has been awarded following the provisions of these UGC Regulations, 2016.	

For further details please refer to the University Grants Commission (Minimum Standards and Procedure for Award of M.PHIL./PH.D Degrees) Regulations, 2016 available at https://www.ugc.ac.in/pdfnews/4952604_UGC-(M.PHIL.-PH.D-DEGREES)-REGULATIONS,-2016.pdf

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University of Hyderabad

Break-up for the approved Intake for 2021-22

S.No.	Course	Subject	GE	SC	ST	OBC	EWS	Total	PH	DP
1	I.M.Sc.	Mathematical Science	8	3	2	5	2	20	1	1
2	I.M.Sc.	Physics	8	3	2	5	2	20	1	1
3	I.M.Sc.	Chemical Science	8	3	2	5	2	20	1	1
4	I.M.Sc.	Systems Biology	8	3	2	5	2	20	1	1
5	I.M.Sc.	Applied Geology	4	2	0	3	1	10	1	1
6	M.Optom	Master of Optometry	11	4	2	8	3	28	1	1
7	I.M.Sc.	Health Psychology	8	3	2	5	2	20	1	1
8	I.M.A.	Telugu	8	3	1	5	2	19	1	1
9	I.M.A.	Hindi	3	2	1	3	1	10	1	1
10	I.M.A.	Language Sciences	8	3	1	5	2	19	1	1
11	I.M.A.	Urdu	2	1	0	1	1	5	0	0
12	I.M.A.	Economics	6	2	1	4	1	14	1	1
13	I.M.A.	History	5	2	1	4	1	13	1	1
14	I.M.A.	Political Science	5	2	1	4	1	13	1	1
15	I.M.A.	Sociology	6	2	1	4	1	14	1	1
16	I.M.A.	Anthropology	5	2	1	4	1	13	1	1
17	**Int.M.Tech**	**Computer Science**	12	4	2	8	3	29	1	0
			115	**44**	**22**	**78**	**28**	**287**	**16**	**15**
			40.07	15.33	7.67	27.18	9.76		5.57	5.23
S.No.	**Course**	**Subject**	**GE**	**SC**	**ST**	**OBC**	**EWS**	**Total**	**PH**	**DP**
18	M.Sc.	Mathematics / Applied Maths	19	8	4	14	5	50	2	2
19	M.Sc.	Statistics - OR	10	4	2	7	2	25	1	1
20	**M.C.A.**	**Computer Applications**	16	6	3	11	4	40	2	0
21	M.Sc.	Physics	26	7	3	15	5	56	3	3
22	M.Sc.	Chemistry	26	7	3	15	5	56	3	3
23	M.Sc.	Biochemistry	11	4	2	7	2	26	1	1
24	M.Sc.	Plant Biology & Biotechnology	10	3	2	6	2	23	1	1
25	M.Sc.	Molecular Microbiology	6	2	1	4	2	15	1	1
26	M.Sc.	Animal Biology & Biotechnology	10	3	2	6	2	23	1	1
27	**M.Sc.**	**Biotechnology**	12	5	2	8	3	30	0	0
28	M.P.H.	Master of Public Health	15	6	3	10	4	38	2	2
29	M.Sc.	Ocean and Atmospheric Sciences	3	2	1	3	1	10	1	1
30	M.Sc.	Health Psychology	6	2	1	4	2	15	1	1
31	M.Sc.	Neural and Cognitive	8	2	1	4	1	16	1	1

		Science								
32	M.A.	English	24	8	4	15	5	56	3	3
33	M.A.	Philosophy	11	4	2	8	3	28	1	1
34	M.A.	Hindi	19	7	4	13	4	47	2	2
35	M.A.	Telugu	24	8	4	15	5	56	3	3
36	M.A.	Urdu	9	4	2	7	3	25	1	1
37	M.A.	Applied Linguistics	9	4	2	7	3	25	1	1
38	M.A.	Comparative Literature	9	4	2	7	3	25	1	1
39	M.A.	Sanskrit Studies	6	2	1	4	2	15	1	1
40	M.A.	English Language Studies	10	3	2	6	2	23	1	1
41	M.A.	History	29	9	4	17	6	65	3	3
42	M.A.	Political Science	29	9	4	17	6	65	3	3
43	M.A.	Sociology	29	9	4	17	6	65	3	3
44	M.A.	Anthropology	12	5	2	8	3	30	1	1
45	M.Ed.	Education	19	8	4	14	5	50	2	2
46	M.A.	Gender Studies	8	3	2	5	2	20	1	1
47	M.A.	Economics	30	11	6	20	8	75	3	3
48	M.A.	Financial Economics	14	6	3	10	4	37	2	2
49	MPA	Dance: Kuchipudi	3	2	1	3	1	10	1	1
50	MPA	Dance: Bharatanatyam	3	2	1	3	1	10	1	1
51	MPA	Theatre Arts	7	3	1	4	2	17	1	1
52	MPA	Music (Vocal/Instrumental)	8	3	2	5	2	20	1	1
53	MFA	Painting	6	3	1	5	2	17	1	1
54	MFA	Print Making	3	2	1	3	1	10	1	1
55	MFA	Sculpture	3	2	1	3	1	10	1	1
56	MFA	Art History & Visual Studies	3	2	1	3	1	10	1	1
57	M.A.	Communication (Media Sudies)	9	4	2	7	3	25	1	1
58	M.A.	Communication (Media Practise)	9	4	2	7	3	25	1	1
59	M.B.A.	General	30	11	6	20	8	75	4	4
60	M.B.A.	Health Care & Hospital Management	14	6	3	10	4	37	2	2
61	M.B.A.	Business Analytics	14	6	3	10	4	37	2	2
62	E.M.B.A.	Executive MBA	16	6	3	11	4	40	2	2
63	Certificate	Course on Publishing	8	3	2	5	2	20	1	1
		Total	**605**	**224**	**112**	**403**	**149**	**1493**	**73**	**71**
			40.52	**15.00**	**7.50**	**26.99**	**9.98**		**4.89**	**4.76**

S.No.	Course	Subject	GE	SC	ST	OBC	EWS	PH	TOTAL
	M.Tech. Programmes								

64	M.Tech.	Computer Science	17	6	4	12	4	2	45
65	M.Tech.	Artificial Intelligence	10	4	3	8	3	2	30
66	M.Tech.	Information Technology	10	4	3	8	3	2	30
67	M.Tech.	Information Security	6	3	1	5	2	1	18
68	M.Tech.	Bioinformatics	10	4	2	6	2	1	25
69	M.Tech.	Materials Engineering	6	3	1	5	2	1	18
70	M.Tech.	Nanoscience and Technology	6	3	1	5	2	1	18
71	M.Tech.	Manufacturing Science and Engg.	6	3	1	5	2	1	18
72	M.Tech.	Integrated Circuit Technology	6	3	1	5	2	1	18
73	M.Tech.	Modeling and Simulation	13	6	3	10	3	1	36
		Total	**90**	**39**	**20**	**69**	**25**	**13**	**256**
			35.16	15.23	7.81	26.95	9.77	5.08	

S.No.	**Course**	**Subject**	**GE**	**SC**	**ST**	**OBC**	**EWS**	**PH**	**TOTAL**
	M.Sc./Ph.D. & Ph.D. Programmes								
74	Int.M.Sc./Ph.D	Biochemistry & Molecular Biology	2	1	0	2	1	0	6
75	Int.M.Sc./Ph.D.	Animal Biology and Biotechnology	2	1	0	2	1	0	6
76	Int.M.Sc./Ph.D.	Biotechnology	2	1	0	2	1	0	6
77	Ph.D.	Applied Maths	1	0	0	1	0	0	2
78	Ph.D.	Computer Science	6	2	1	4	1	1	15
79	Ph.D.	Physics	8	3	2	6	2	1	22
80	Ph.D.	Electronics Science	1	1	0	1	0	0	3
81	Ph.D.	Earth, Ocean & Atmos. Sci.	2	1	1	1	1	0	6
82	Ph.D.	Chemistry	6	2	1	4	2	1	16
83	Ph.D.	Biochemistry	6	2	1	3	1	1	14
84	Ph.D.	Plant Sciences	4	1	1	2	1	1	10
85	Ph.D.	Microbiology	1	1	1	1	0	0	4
86	Ph.D.	Animal Biology	2	1	0	1	1	0	5
87	Ph.D.	Biotechnology	5	2	1	3	1	1	13
88	Ph.D.	Systems & Comp. Biology	2	1	0	1	1	0	5
89	Ph.D.	English	1	1	0	1	0	0	3
90	Ph.D.	Philosophy	1	1	1	1	1	0	5
91	Ph.D.	Hindi	6	2	1	4	1	1	15
92	Ph.D.	Telugu	2	1	1	2	1	1	8

93	Ph.D.	Urdu	3	2	1	3	1	1	11
94	Ph.D.	Applied Linguistics	1	0	1	1	0	0	3
95	Ph.D.	Translation Studies	1	1	0	1	0	0	3
96	Ph.D.	Comparative Literature	1	1	1	1	0	0	4
97	Ph.D.	Sanskrit Studies	1	0	0	1	0	0	2
98	Ph.D.	History	2	1	1	2	1	1	8
99	Ph.D.	Political Science	7	3	1	5	1	1	18
100	Ph.D.	Sociology	5	2	1	4	1	1	14
101	Ph.D.	Anthropology	1	0	1	1	1	0	4
102	Ph.D.	Education	1	0	0	1	0	0	2
103	Ph.D.	Regional Studies	2	1	0	1	0	0	4
104	Ph.D.	Folk Culture Studies	1	0	0	0	0	0	1
105	Ph.D.	Gender Studies	1	1	0	1	1	0	4
106	Ph.D.	Economics	2	1	0	1	1	0	5
107	Ph.D.	Dance	1	0	0	1	0	0	2
108	Ph.D.	Theatre Arts	1	1	0	1	1	0	4
109	Ph.D.	Communication	1	0	0	1	0	0	2
110	Ph.D.	Management Studies	4	2	1	3	1	1	12
111	Ph.D.	**Health Sciences** : Public Health	1	0	0	0	0	0	1
112	Ph.D.	Biomedical Sci.	1	0	0	1	0	0	2
113	Ph.D.	Psychology	3	1	1	3	1	1	10
114	Ph.D.	Cognitive Science	1	1	0	2	0	0	4
115	Ph.D.	Materials Engineering	2	0	1	1	1	1	6
116	Ph.D.	Nanoscience and Technology	0	1	0	1	0	0	2
		Total	**104**	**44**	**22**	**79**	**28**	**15**	**292**
			35.62	15.07	7.53	27.05	9.59	5.14	

SUMMARY OF THE COURSES AND INTAKE.

Courses	**GE**	**SC**	**ST**	**OBC**	**EWS**	**PH**	**Total**	**PH**	**DP**
5-Year Int.	115	44	22	78	28		287	16	15
Postgraduate	605	224	112	403	149		1493	73	71
M.Tech.	90	39	20	69	25	13	256		
Ph.D.	104	44	22	79	28	15	292		
Total	**914**	**351**	**176**	**629**	**230**	**28**	**2328**	**89**	**86**
	39.26	15.08	7.56	27.02	9.88	1.20		3.82	3.69

NOTE

1. M.Sc. Biotechnology (30 seats) are to be filled as per the guidelines of (GAT-B) of RCB, Faridabad.

2. PH seats in PG courses are Supernumerary seats. Total seats for PH is 89+28=117 out of intake 2328. As per the decision of the Academic Council, wherever the intake is 10 or more one seat will be allotted to PH category and overall 5% seats have been reserved to PH category.

3. In M.Tech., and Ph.D. programmes, the PH seats are not supernumerary. In Ph.D. courses wherever the intake is 8 or more one seat is reserved for ST. Efforts are made to provide ST representation to all Schools as far as possible looking into the intake.

4. Seats are not reserved for DP category candidates in the M.Tech./ 5 Year Integrated M.Tech. programmes as per the norms of CCMT and CSAB of JEE. Besides, the seats are not reserved in Ph.D. and Int. M.Sc./Ph.D. programmes as there will be no supernumerary seats in these programmes as per UGC Regulations 2016.

5. Any candidate applying under two categories will be shown in both categories on the basis of merit as per rules of reservation. The candidate may decide the category in which he/she wishes to take admission.

6. When there are no eligible candidates from PH/DP categories, these seats should not be converted/ transferred and offered to any other category for Integrated and PG courses as they are Supernumerary seats.

7. The unfilled seats as per the roster will be carried forward for January 2022 session in Ph.D. programmes.

8. All extant guidelines on reservations issued by UGC, Ministry of Education and DoPT be followed strictly and no reserved category seat be converted/transferred or offered to any other category.

UNIVERSITY OF HYDERABAD

(A Central University established by an Act of Parliament)

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WEIGHTAGES FOR INTERVIEW IN INT. MSc /Ph.D and Ph.D COURSES

1. APPLIED MATHS:

Sl.No.	Weightage being considered	Marks
1.	Interview	30
	Total	30

2. COMPUTER SCIENCE:

Sl.No.	Weightage being considered	Marks
1.	Interview	30
	Total	30

3. PHYSICS:

Sl.No.	Weightage being considered	Marks
1.	Project done during M.Sc. + Defence	3
2.	Qualification in National tests without fellowship * (UGC-NET, DST- INSPIRE/RGNF/MANF/ JEST/ GATE)	3
3.	Qualification in National tests with fellowship ** (CSIR-UGC/NET-JRF)	4
4.	Interview	20
	Total	30

*Students qualified in National test without fellowship will get 3 marks.
****** Students qualified in National test with fellowship will get 3+4=7 marks.

4. ELECTRONICS SCIENCE:

Sl.No	Weightage being considered	Marks
1	Research Proposal and its defence	5
2	c. UGC/CSIR JRF OR d. UGC NET (Lectureship)	5 OR 3
3	Interview	20
	Total	30

5. EARTH, OCEAN & ATMOSPHERIC SCIENCES

S.No	Weightage being considered	Marks
1	CSIR/UGC JRF	5
2	Research Proposal and its importance in current research trends	10
3	Interview	15
	Total	30

6. CHEMISTRY:

Sl.No.	Weightage being considered	Marks
1.	Interview	30
	Total	30

7. BIOCHEMISTRY

Sl.No.	Weightage being considered	Marks
1.	Interview	30
	Total	30

8. PLANT SCIENCES & 9. MICROBIOLOGY

Sl.No.	Weightage being considered	Marks
1.	Interview	30
	Total	30

10.ANIMAL BIOLOGY:

Sl.No.	Weightage being considered	Marks
1.	Interview	30
	Total	30

11. **BIOTECHNOLOGY:**

Sl.No.	Weightage being considered	Marks
1.	Interview	30
	Total	30

12. **SYSTEMS & COMPUTATIONAL BIOLOGY:**

Sl.No.	Weightage being considered	Marks
1.	Interview	30
	Total	30

13. **ENGLISH:**

Sl.No.	Weightage	Marks
1.	Research proposal: innovativeness, quality, methodology	5
2.	Language Skills	5
3.	Review and analysis of scholarship	5
4.	Argumentation (in proposal and at interview)	5
5.	Familiarity with Primary Sources and Working Bibliography	5
6.	JRF or M.Phil (only on production of M.Phil thesis at the Interview)	5
	Total	30

14. **PHILOSOPHY**

Sl.No.	Weightage being considered	Marks
1.	Research Proposal and its defence	5
2.	M.Phil/JRF	5
3.	Interview	20
	Total	30

15. **HINDI:**

Sl.No.	Weightage being considered	Marks
4.	UGC-NET/JRF/M.Phil	5
5.	Research Proposal and its defence	5
6.	Interview	20

	Total	30

16. **TELUGU:**

Sl.No.	Weightage being considered	Marks
1.	UGC-NET/JRF/M.Phil	5
2.	Research Proposal and its defence	5
3.	Interview	20
	Total	30

17. **URDU:**

Sl.No.	Weightage being considered	Marks
1.	UGC-NET/JRF/M.Phil	5
2.	Research Proposal and its defence	5
3.	Interview	20
	Total	30

18. **APPLIED LINGUISTICS & 19. TRANSLATION STUDIES:**

Sl.No.	Weightage being considered	Marks
1.	UGC-NET/JRF/SET/MANF/M.Phil	5
2.	Research Proposal and its defence	5
3.	Interview	20
	Total	30

20. COMPARATIVE LITERATURE:

Sl.No.	Weightage being considered	Marks
1.	UGC-NET/JRF/M.Phil	5
2.	Research Proposal and its defence	5
3.	Interview	20
	Total	30

21. SANSKRIT STUDIES:

Sl.No.	Weightage being considered	Marks
1.	UGC-NET/JRF /Possessing M.Phil./ a National Fellowship/ Award	5
2.	Research Proposal and its defence	5
3.	Interview	20
	Total	30

22. HISTORY:

Sl.No.	Weightage being considered	Marks
1.	MPhil awarded/submitted/JRF UGC/ICHR/ICSSR)	5
2.	Interview & Research Proposal and its defence	25
	Total	30

23. POLITICAL SICENCE:

S.No.	Weightage being considered	Marks
1	Having Fellowship/NET/SET/JRF	2

2	Interview	28
	Total	**30**

24. SOCIOLOGY:

S.No.	Weightage being considered	Marks
1	Having Fellowship	5
2	Research proposal and interview	25
	Total:	**30**

25. ANTHROPOLOGY:

S.No.	Weightage being considered	Marks
1.	Research Proposal	5
2.	Publications (in UGC care listed journals)	4
3.	Interview	21
	Total	**30**

26. EDUCATION:

S.No	Weightage being considered	Marks
1	Research Proposal & Presentation	10
2	UGC-JRF UGC NET	5 3
3	Interview	15
	TOTAL	30

27. REGIONAL STUDIES:

S. No.	Weightage being considered	Marks
1	UGC-JRF/ ICSSR-JRF/ M.Phil.	05
2	Interview (Research Proposal + Domain Knowledge)	25
Total		30

28. FOLK CULTURE STUDIES:

Sl.No.	Weightage being considered	Marks
1.	Interview	30
	Total	30

29. GENDER STUDIES

S.No	Weightage from the academic year 2021-22	Marks
1.	Fellowships (UGC-JRF, RGNF, MANF or equivalent)	5
2.	Research proposal	10
3.	Interview	15
	Total	**30**

30.ECONOMICS:

Sl.No.	Weightage being considered	Marks
1.	Interview	30
	Total	30

31. DANCE:

Sl. No.	Weightage being considered	Marks
1	Interview	30
	Total	30

32. THEATRE ARTS

Sl.No	Weightage being considered	Marks
01	Interview	25
02	UGC-JRF	5
	Total	30

33. COMMUNICATION

Sl. No	Weightage	Max. Marks: 30
1	Having Fellowship: JRF and equivalent only	5
2	Research Proposal & its defense	10
3	Domain knowledge & research aptitude	15
Total marks		30

34. MANAGEMENT STUDIES

S. No.	Component	Marks
1	Past Academic Record:	
	P.G. Performance:	(5)
	Gold Medal	5
	Distinction : (> 70 %)	4
	First Class : (60-69.9 %)	3
	Second Class: (50-59.9 %)	2
2	Fellowship / NET / SET / M.Phil.:	(5)
	JRF: (with NET)	5
	JRF: (without NET)	4
	NET:	4
	SET:	3
	M.Phil.:	2
3	Research Proposal and its defense	10
	Interview Performance	10
	Total:	30

35. HEALTH SCIENCES: PUBLIC HEALTH

S. No.	Component	Marks
1	Research Proposal	15

2	Interview	15
	Total	30

36. BIOMEDICAL SCIENCES

S. No.	Component	Marks
1	Research Proposal Presentation	8
2	Interview	22
	Total	30

37. PSYCHOLOGY:

S. No	Weightage being considered	Marks
1	Research Proposal	05
2	Writing Skills*	05
3	Interview	20
	Total	30
	*Writing assignment would be given to candidates called for interview	

38. COGNITIVE SCIENCE:

S. No	Weightage being considered	Marks
1.	Research Proposal and its defence:	8
2.	Having fellowship/M.Phil/NET/SET	2
3.	Interview	20
	Total	30

39. MATERIALS ENGINEERING:

Sl. No.	Weightage being considered	Maximum Marks
1	Research Proposal and defence	10
2	Qualification in CSIR/JEST/MPhil/NET/SLET/ Valid Gate score	5
3	Interview	15
	Total	30

40. NANOSCIENCE AND TECHNOLOGY:

Sl. No.	Weightage being considered	Maximum Marks
1	Research Proposal and defence	10
2	Qualification in CSIR/JEST/MPhil/NET/SLET/ Valid Gate score	5
3	Interview	15
	Total	30

FACULTY WISE BROAD AREAS OF RESEARCH AND VACANCIES FOR SEPT, 2021

1. APPLIED MATHS:

S.No.	Faculty Name	Designation	Areas of Supervision	Ph.D. Vacancies
1	Dr. B.Sri Padmavati	Professor	Fluid Dynamics	1
2.	Dr. Saroj Panigrahi	Professor	Ordinary Differential Equations	1
			Total	2

2. COMPUTER SCIENCE

S. No.	Faculty	Designation	Area of Specialisation	Vacancies
1.	K. Swarupa Rani	Assoc. Professor	Machine Learning, Text Processing	1
2.	S. Nagender Kumar	Assoc. Professor	Internet of Things	2
3.	Naveen Nekuri	Asst. Professor	Machine Learning, Pattern Recognition	2
4.	M. Nagamani	Asst. Professor	Speech Synthesis and Recognition, Embedded Systems	2
5.	Rajendra Prasad Lal	Asst. Professor	Graph algorithms, theory	2
6.	Satish Srirama	Assoc. Professor	Cloud computing, Internet of Things	1
7.	Y. V. Subba Rao	Assoc. Professor	Cryptography	1
8.	S. Durga Bhavani	Professor	Social Network Analysis, Fractals, Graph Theory	1
9.	V. C. Venkaiah	Professor	Cryptography	1
10.	Prof. S K Udgata	Professor	Wireless sensor networks and IoT	1
11.	Dr. T. Sobha Rani	Assoc. Professor	Bio Informatics and Theory	1
T O T A L				15

3. PHYSICS:

S. No	Supervisor	Vacancy	Research Area

16.	Prof. K. C. James Raju	2	Materials, Devices, Simulations and Measurement Techniques for Microwave frequency range, Ferroelectric Thin Films, Laser –Matter Interactions for material processing, Nano Electronics and Condensed Matter Physics.
17.	Prof. P. K. Suresh	1	Cosmology (T)
18.	Prof.Suneel Singh	1	Quantum Optics, Non-linear Optics (T)
19.	Prof. Nirmal Kumar V.	2	Singular Optics, Optical Angular Momentum, Spin-Orbit Interaction of Light and Near- Field Optics (E)
20.	Prof. Surajit Dhara	3	Soft Matter and Living Systems, Soft Matter Photonics (E &T)
21.	Prof.Sharat Ananthamurty	2	Soft Condensed Matter, Biophysics, Optics, Laser Spectroscopy (E)
22.	Prof.V.Subrahmanyam	1	Theoretical Condensed Matter Physics, Strongly-correlated Systems, Quantum Entanglement and Information (T)
23.	Dr. Ashoka V. S.	1	Quantum Optics. Laser Cooling, Quantum Information, Ferrofluids (E)
24.	Dr. G.S.Vaitheeswaran	1	Solid state theory, Material science, Magnetism, Superconductivity, High Pressure Studies, elastic and mechanical properties investigated using first principles density functional calculations (DFT). (T).
25.	Dr.P.Manimaran	1	Computational Physics, Complex Systems, Network Science, Computational Biology (T).
26.	Dr.Soma Sanyal	1	Cosmology, Heavy-ion Collisions (T)
27.	Dr. G. Venkataiah	1	Condensed Matter Physics, Magnetic Materials & Multiferroics, Electric field control of Magnetism (E)
28.	Dr. Barilang Mawlong	1	Theoretical High Energy Physics (T)
29.	Dr. N. Sri Ram Gopal	1	Ultrafast Spectroscopy, Laser Surface Patterning (E)
30.	Dr. Abhi ram soori	2	– Condensed Matter Physics (T)
31.	Dr. Syamal Biswas	1	Statistical & Condensed Matter Physics (T)
	Total	22	

4. ELECTRONICS SCIENCE:

Sl.No	Faculty name	Research area	Vacancies
1	Dr.P.Manimaran	Biomedical signal processing / Image processing.	1
2.	Dr.Kollu Pratap	Thin Film Fluxgate Sensors	1
3.	Dr.Anjali Priya	Nanoscale design, modeling and simulation of semiconductor devices	1
		Total	3

5. EARTH, OCEAN & ATMOSPHERIC SCIENCES:

S.No	Name of the faculty	Designation	Areas for supervision (2020-21)	Ph.D. vacancies
1	Dr. K. Ashok	Professor	One position in Ocean/Atmospheric data assimilation. The students should have knowledge of tropical ocean and atmospheric dynamics, modelling and data assimilation, and statistics.	01
2	Dr. V. Chakravarthi	Professor	Joint inversion	01
3	Dr. S. Sri Lakshmi	Assistant Professor	Geophysics - Seismics and rock physics modelling	01
4	Dr. A. Ao	Assistant Professor	Metamorphic Petrology, Geochemistry	01
5	Dr. Vijay P. Kanawade	UGC-Assistant Professor	Aerosol and cloud physics	01
6	Dr. Devleena M. Tiwari	UGC-Assistant Professor	Paleoclimate Reconstructions, Source Rock Geology / Geochemistry	01
			Total	06

6. Chemistry

Sl. No.	Name of the Faculty	Research Areas	For July 2021 *session*
1	Prof. T.P. Radhakrishnan	Materials Chemistry, Computational Chemistry	1
2	Prof. Ashwini Nangia	Supramolecular Chemistry	1
3	Prof. Samar Kumar Das	Functional Inorganic Materials	1
4	Prof. Lalitha Guruprasad	Protein Structure and Function Structural Bioinformatics	1
5	Prof. D. B. Ramachary	Asymmetric Organocatalysis, Reaction Engineering	1
6	Prof. Tushar Jana	Polymer Chemistry and Materials Science	1
7	Prof. P.K. Panda	Bio-Inorganic, Bio organic and Supramolecular Chemistry	1
8	Prof. R. Balamurugan	Organic Synthesis and Organic Materials	1
9	Prof. R. Chandrasekar	Molecular Nanoscience and Technology	1
10	Prof. K. Muralidharan	Nano materials, Polymer, Catalysis, High-energy Materials	1

11	Prof. P. Ramu Sridhar	Organic Synthesis, Natural products and Carbohydrate Chemistry	2
12	Prof. M. Sathiyendiran	Organometallic Chemistry	1
13	Dr. Debashis Barik	Statistical Mechanics, Computational Systems Biology	1
14	Dr. Jovan Jose K. V.	Theoretical Computational Chemistry	1
15	Dr. T. Saravanan	Enzyme Catalysis & Photo Biocatalysis	1
		Total	16

7. BIOCHEMISTRY

S. No	Faculty Name	Research area	vacancy
1	Prof. Krishnaveni Mishra	Regulation of organelle size and shape and inter-organelle communication	1
2	Prof. Naresh B. V. Sepuri	Mitochondrial redox homeostasis and mitophagy in the development of neurological disorders	1
3	Prof. M. K. Bhattacharyya	Regulation of genome expression and maintenance of malarial parasites and development of antimalarial drugs	1
4	Prof. Sharmistha Banerjee	Mitochondria-mediated metabolic crosstalk between host immune cells and pathogens during infection	1
5	Prof. G. Ravi Kumar	Understanding the role of non-coding RNA and signaling pathways in megakaryocyte development and platelet production.	1
6	Prof. Bramanandam Manavathi	Molecular basis of tumor heterogeneity and metastasis: Breast cancer as a model system	1
7	Dr. Akash Gulyani	Biosensors for cellular dynamics and natural light sensing in a regenerating model organism	2
8	Dr. Mohd. Akif	Structural and mechanistic understanding of immune evasion proteins from pathogenic organisms and development of vaccine and novel therapeutics	1
9	Dr. P. Anil Kumar	Molecular and cellular mediators of diabetic kidney disease	3
10	Dr. Santosh Kumar Padhi	Enzyme engineering for industrial applications	1
11	Dr. Vijay Morampudi	Probiotic Effects of Breast Milk Lactobacilli on Intestinal Crypt Cell Development and Function	1
		Total	14

8. PLANT SCIENCES:

Sl.No.	Faculty	Designation	Areas for Supervision (2021-2022)	Ph.D. Vacancies
1.	Dr. Ch. Venkata Ramana	Professor	Microbial Discoveries	1
2.	Dr. S. Rajagopal	Professor	Plant Biochemistry and Biophysics	2
3.	Dr. Ragiba Makandar	Professor	Plant-Microbe Interactions	1
4.	Dr. Yelam Sreenivasulu	Professor	Plant Reproductive Biology	2
5.	Dr. Y. Sreelakshmi	Associate Professor	Tomato Functional Genomics	1
6.	Dr. Irfan Ahmad Ghazi	Assistant Professor	Functional Genomics and Biochemical Analysis of Rice Cultivars	2
7.	Dr. M. Muthamilarasan	Assistant Professor	Molecular Genetics and Genomics of Millet Species	1
			Total	10

9. MICROBIOLOGY

Sl.No.	Faculty	Designation	Areas for Supervision (2021-2022)	Ph.D. Vacancies
1.	Dr. Appa Rao Podile	Senior Professor	Plant-Microbe Interactions; Chitinases/Chitosanases and Plant Cell Wall Degrading Enzymes	1
2.	Dr. Ch. Venkata Ramana	Professor	Microbial Discoveries	2
3.	Dr. K. Gopinath	Associate Professor	Molecular Plant Virology	1
			Total	4

10. ANIMAL BIOLOGY

Sl.No.	Name of the Faculty	Designation	Areas for Supervision (2021-2022)	Ph. D Vacancies
01.	Prof. P. Jagan Mohan Rao	Professor	Systems Immunology, Stem cell biology, Gene expression and regulation.	2
02.	Prof. Anita Jagota	Professor	Neurobiology, neurodegeneration and brain aging, Molecular Chronobiology	3
	Prof. Arun Kumar		Genetic engineering of malaria	1

03.		Professor	parasite, Plasmodium interactions in mosquito and hepatocytes.	
04.	Dr. Nooruddin Khan	Associate Professor	Immunobiology of infectious and metabolic diseases, Vaccine and adjuvant development.	2
05.	Dr. M.K. Arunasree	Assistant Professor	Epigenetics of development, differentiation and pathogenesis.	1
06.	Dr. Raja Ram Mohan Roy	Assistant Professor	Cellular homeostasis, Inflammation and Tumorigenesis.	1
07.	Dr. Parul Mishra (UGC-FRP)	Assistant Professor	Ubiquitin mediated protein degradation, Protein Engineering, Chaperone networks in neurological diseases and cancer.	1
Total				11*

- * Please note that among the total number of vacancies (11) only Five of them are filled through entrance examination followed by interview. Rest Six vacancies are allotted to ongoing Integrated MSc PhD Animal biology and Biotechnology (2019) batch students.

11. BIOTECHNOLOGY

S.No.	Name of the faculty	Designation	Areas for supervision (2021-22)	Ph.D. vacancy
1	Prof. Anand K. Kondapi	Senior Professor	SARS Cov-2 Biology	1
2	Prof. Anand K. Kondapi	Senior Professor	HIV-1 Biology	1
3	Prof. Anand K. Kondapi	Senior Professor	Evolution of HIV and Cov-2 by bioinformatics and systems biology methods	1
4	Prof. P. Prakash Babu	Senior Professor	Mechanism of Neuro-infections/neurodegenerative diseases	1
5	Prof. P. Prakash Babu	Senior Professor	Brain tumor progression and therapeutics	1
6	Prof. K.P.M.S.V.Padmasree	Professor	Insecticidal potential of seed protease inhibitors; Host-Pest Interactions	1
7	Dr. Vaibhav Vindal	Assistant Professor	Computational and Functional Genomics	1
8	Dr. N. Prakash Prabhu	Assistant Professor	Protein biophysics: folding & dynamics	1
9	Dr. Sunanda Bhattacharyya	Assistant Professor	Study of DNA replication of human malarial parasite as novel drug	1

			target	
10	Dr. Sunanda Bhattacharyya	Assistant Professor	Studying role of Hsp90 in preventing genome instability - a potent cause of cancer	1
11	Dr. G B Madhu Babu	Assistant Professor	Neuroscience, Neurodegenerative Diseases	1
12	Dr. G B Madhu Babu	Assistant Professor	Circadian Rhythms	1
13	Dr. G B Madhu Babu	Assistant Professor	Cell Biology and Genetics	1
			Total	13

12. SYSTEMS & COMPUTATIONAL BIOLOGY:

Sl.No.	Name of faculty	Designation	Research area	No. of vacancies
1.	Dr. Vivek Thakur	Assistant Professor	Computational analysis of plant genomes, metagenomics	1
2.	Dr. Manjari Kiran	Assistant Professor	Cancer Genomics, Non-coding RNAs, Network Biology	2
3.	Dr. Moumita Saharay	Assistant Professor	Protein dynamics, computer simulations of biomaterials and biofuels	1
4.	Dr. Pramod Rajaram S.	Assistant Professor	Mathematical modelling and simulations for systems medicine and bioengineering	1
			Total	5

13. ENGLISH:

Sl.No.	Name of faculty	Designation	Research area	No. of vacancies
1.	T Sireesha	Assistant Professor	Indian Diaspora and Literature South Asian Diaspora Studies Indian Writing in English	1
2.	Gopika Sankar	Assistant Professor	Literature and space British/American literature: fiction Short fiction IWE: fiction	2

			Total	3

14. PHILOSOPHY

Sl.No.	Name of faculty	Designation	Research area	No. of vacancies
1.	Prof. C A Tomy	Professor	Western Philosophy	1
2.	Dr Ananda Sagar:	Assistant Professor	Western Philosophy	1
3.	Dr Shinod NK	Assistant Professor	Western Philosophy	1
4.	Dr Kavita Chauhan	Assistant Professor	Indian Philosophy	1
5.	Dr Abhjeet Joshy	Assistant Professor	Indian Philosophy	1
			Total	5

15. HINDI:

Sl. No.	Name of the Faculty	Designation	Areas for Supervision	Ph.D. Vacancie
01	V.Krishna	Professor	Modern literature, Philosophy of literature, Comparative studies, Functional Hindi, Translation, Dalit Literature and Identity Studies	01
02	Ravi Ranjan	Professor	Bhakti Poetry, Modern Literature, sociology of Literature & Literary Criticism	04
05	Gajendra Kumar Pathak	Professor	Bhakti movement and poetry, Hindi navajagaran, Hindi Criticism, Philosophy of History of literature, Modern and contemporary Hindi Literature	02
06	Alok Pandey	Professor	Kabir, Nirala, Ageyay,, Media, Cinema, Cultural Studies, Interdisciplinary and comparative studies.	03
07	Cherla Annapurna	Professor	Language studies, Translation studies, Comparative and Modern Literature.	01
09	M.Shyam Rao	Professor	Modern Hindi Poetry, Modern Hindi prose, Aesthetics, Marxist Approach to Literature, Sociology of Literature, Comparative Literature, Indian Literature.	02
10	Bhim Singh	Associate Professor	Modern Hindi Literature, Contemporary Hindi literature and Discourses, Historiography of Hindi Literature, Folk Literature of Rajasthan, Lexicography and Semantics.	01

12	J.Atmaram	Assistant Professor	Hindi Criticism, Modern Hindi Literature (Poetry & Prose), Functional Hindi and Translation, Social Contest of Hindi language and Registers.	01
	Total			15

16. TELUGU:

Sl. No.	Name of the Faculty	Position	Specialization	Vacancy for the Academic year 2021-22	Broad Area of specialization.
1	Prof.M.Gona Naik	Professor	Folk Literature and Telugu Literature	01	Telugu Literature
2	Prof.P.Pavan Kumar	Professor	Classical and Modern Telugu Grammar, Applied Linguistics, Natural Language Processing (NLP), Preparation of Text books and Writing for Mass Media.	03	Telugu Language and Literature
3	Prof. D.Vijayalakshmi	Professor	Socio linguistic studies on Telugu Language and Comparative Dravidian	02	Telugu Language and Literature
4	Dr.D.Vijaya Kumari	Assistant Professor	Folk Literature and Desi Literature	01	Telugu Literature
5	B. Bhujanga Reddy	Assistant Professor	Literary Criticism, Literary Translation, Telugu Grammar and Linguistics.	01	Language and Literature
			Total	08	

17. URDU:

S.No.	Faculty	Designation	Specialization	PhD vacancy
1.	Dr. Syed Fazlullah	Professor	Fiction, Non-fiction, Urdu Journalism & Urdu-Telugu comparative literature	02
2.	Dr. Arshia Jabeen	Associate Prof	Criticism, Modern Prose and Poetry, Non-Fiction and Journalism	01
3.	Dr. Md. Zahidul Haque	Associate Prof	Modern prose and poetry, Mass media	02
4.	Dr. A R Manzar	Associate Prof	Modern Criticism, Modern Prose and Poetry.	02
5.	Dr. Md. Kashif	Assistant Prof	Fiction, Modern Prose and Poetry, Non-Fictional Prose and Journalism	01
6.	Dr. Nishath	Assistant Prof	Deccani Literature, Modern Prose and	02

	Ahmed		Poetry.	
7.	Dr. Rafia Begum	Assistant Prof	Fiction, Modern Fiction Non- fiction and poetry	01
Total				11

18. APPLIED LINGUISTICS

S.No.	Faculty	Designation	Specialization	PhD vacancy
1.	J. Prabhakara Rao	Professor	Systemic Linguistics and Systemic Typology, Mathematical & Computational Linguistics, Methodology of Linguistics, Translation Studies, Russian Linguistics and Russian as a Foreign Language	1
2.	Dr. Gracious Mary Temsen	Associate Professor	Syntax, Linguistic Typology, Language Documentation, Khasi Linguistics, Descriptive & Comparative Linguistics.	1
3.	Dr. S. Arulmozi	Associate Professor	Corpus Studies, Language Endangerment Studies	1
			Total	3

19. TRANSLATION STUDIES

S.No.	Faculty	Designation	Specialization	PhD vacancy
1.	Dr.Sriparna Das	Assistant Professor	Translation Studies, Gender Studies, Literature Studies, Multilingualism.	1
2.	Dr. Annem Naresh	Assistant Professor	Translation Studies, Postcolonial Literature.	2
			Total	3

20. COMPARATIVE LITERATURE:

S.No.	Faculty	Designation	Specialization	PhD vacancy
1.	Dr. Sowmya Dechamma C C	Professor	Comparative Indian Literatures, Gender and Caste, Translation Studies, The Politics of Languages, and Kodava Performative Cultures.	2
2.	Dr. Vamshi Krishna Reddy	Assistant Professor	Cultural Studies, Film Studies, and Critical Theory	1
6.	Dr. J.Bheemaiah	Associate	Dalit and studies of other	1

		Professor	Margins, Indian Literatures and Cultures.	
			Total	4

21. SANSKRIT STUDIES:

S.No.	Faculty	Designation	Specialization	PhD vacancy
1.	Prof. Amba P. Kulkarni	Professor	Sanskrit Computational Linguistics	1
2.	Prof. J.S.R. Prasad	Professor	Indian Psychology, Philosophical Scientific and linguistic aspects of Ayurveda.	1
	Total			2

22. HISTORY

Sl.No.	Name of the faculty	Specialization	Vacancies
1.	Prof. Sanjay Subodh	Medieval	1
2.	Prof. Bhangya Bhukya	Modern	1
3.	Prof. Anindita Mukhopadhyay	Modern	2
4.	Prof. Suchandra Ghosh	Ancient	1
5.	Dr. B. Eswara Rao	Modern	1
6.	Dr. V. Rajagopal	Modern	1
7.	Dr. V.J. Varghese	Modern	1
	Total		8

23. POLITICAL SCIENCE

S.No.	Faculty	Specialization	PhD vacancy
1.	Prof Arun Kumar Patnaik	Political Theory	1
2.	Prof Jyotirmaya Sharma	Political Theory	4
3.	Prof Vasanthi Srinivasan	Political Theory	1
4.	Prof Manjari Katju	Comparative Politics/Indian Politics	1
5.	Dr Anagha Ingole	Comparative Politics/Indian Politics	2
6.	Prof Kham Khan Suan Hausing/Prof KK Kailash	Indian Political Processes	1
7.	Prof Ramdas Rupavath	Indian Political Processes	1
8.	Dr. Bhim B. Subba	International Relations	3
9.	Dr. Sneha Banerjee	International Relations	2
10.	Prof E. Venkatesu	Public Policy	2
	Total		18

24. SOCIOLOGY:

Sl. No.	Faculty	Designation	Areas for Supervision (2019-2020)	Ph.D. Vacancies
1.	Aparna Rayaprol	Professor	Sociology of Gender, Indian Diaspora, Urban Sociology, and Qualitative Research Methods.	1
2.	Purendra Prasad	Professor	Agrarian Studies, Sociological Theory, Political Economy of Development and Health, Urban Studies	1
3.	C Raghava Reddy	Professor	Science and Technology Studies, Sociology of Organisations, and Sociology of Disability.	1
4.	G Nagaraju	Professor	Sociology of Education, and Information Technology and Society.	1
5.	Pushpesh Kumar	Professor	Sociology of Gender and Sexuality, & Globalisation and Social Change.	1
6.	Tanweer Fazal	Professor	Sociology of Nationalism & Minority Studies, Historical Sociology, Peace and Conflict Studies	1
7.	L.Lam khan Piang	Professor	Ethnicity, Identity, nation and nationalism, tribal studies, border studies, health system research, and Quantitative Techniques	1
8.	V. Janardhan	Associate Professor	Sociology of Industrial Relations, Corporate Business and Society, Sociology of Culture, Sociological Theory, Marxism and Capitalism, and Ethics and Society.	1
9.	Satyapriya Rout	Associate Professor	Sociology of Environment, Natural Resource Management and Development, and Decentralized Governance.	2
10.	Anurekha Chari Wagh	Associate Professor	Sociology of Gender, Development studies, Agrarian studies, Citizenship lights and Teaching and Pedagogy	1
11.	Hoineilhing Sitlhou	Assistant Professor	Religion, Culture and Ethnicity Studies	1
12.	C. Nagalakshmi	Assistant Professor	Sociology of Organisations, Sociology of Science and Technology.	1
13.	Asima Jena	Assistant Professor	Sexuality Studies, Sociology of Health, Sociology of Gender.	1
			Total	14

25. ANTHROPOLOGY:

S.No.	Faculty	Designation	Specialization	PhD vacancy
1.	Prof. BV Sharma	Professor	SOCIAL-CULTURAL ANTHROPOLOGY	2
2.	Dr. Alok Kumar Pandey	Assistant Professor	SOCIAL-CULTURAL	1

			ANTHROPOLOGY	
11.	Dr. George Tharkan	Associate Professor	SOCIAL-CULTURAL ANTHROPOLOGY	1
			Total	4

26. EDUCATION:

Sl.No.	Faculty Name	Areas of Research	Ph.D. Vacancies
1.	Dr.J.V.Madhusudan Head &Associate Professor	Demography of Schooling, Health Education and Early Childhood Care and Education and Education Technology/ICT in Education.	2
		Total	2

27. REGIONAL STUDIES:

Sl.No.	Faculty Name	Designation	Areas of Research (2021-22)	Ph. D Vacancies
1.	Dr. Arvind S. Susarla	Associate Professor	Geography of Hazards and Disasters Environmental Studies Communicating Risks	1
2.	Dr. V. Srinivasa Rao	Associate Professor	Tribal Studies Regional Education Politics of Tribal Development Exclusion and Inclusion of Regions	2
3.	Dr. Salah P	Assistant Professor	Sociology of Violence Region and Collective Identities Migration and Borderlands Marginalized Communities	1
	Total			4

28. FOLK CULTURE STUDIES:

Sl.No.	Faculty Name	Desgn.	Areas of research	Ph. D vacancies
1.	Dr. Joly Puthussery	Associate Professor	Folk Cutlure/Folk Lore	1
Total				1

29. GENDER STUDIES:

Sl.No.	Faculty Name	Desgn.	Areas of research (2020-21)	Ph. D Vacancies
1.	Prof. K. Suneetha Rani	Professor	Gender Studies, New Literatures in English, Cultural Studies, Comparative Studies,	1

			Translation Studies	
2.	Dr. Deepa Sreenivas	Associate Professor	Cultural Studies, Feminist Pedagogy, Childhood Studies	1
3.	Dr. SheelaSuryanarayanan	Associate Professor	Reproductive Health, Gender, Development and Environment, Assisted Reproductive Technologies. In concepts: Transnational Feminism, Intersectionality and Agency	2
	Total			4

30. ECONOMICS:

Sl.No.	Faculty Name	Desgn.	Areas of research (2020-21)	Ph. D Vacancies
4.	Prof. R. Vijay	Professor	Political Economy, Development Economics, New Institutional Economics	1
5.	Dr. G. Sridevi	Associate Professor	Food Security, Health Care, Economics of Discrimination.	1
6.	Dr G vijay	Asst Professor	Lab	1
7.	Dr Pragna Mishra	Asst Professor	Environmental Economics	2
Total				5

31. DANCE

S.No	Faculty	Designation	**Areas of Supervision (2021-22)**	Ph.D Vacancies
1	Dr. Anuradha J	Professor	Dance Studies, Applied Theory and any form based area	1
2	Dr. M.S.Siva Raju	Professor	Dance Studies, Dance Music and related areas and also any dance from based areas	1
	Total			2

32. THEATRE ARTS

Sl.No	Faculty name	Designation	Areas of Supervision	Ph.D vacancies
01	Prof.B.Ananthakrishnan	Professor	Theatre/Performance studies	04
	Total			04

33. COMMUNICATION:

Sl.No.	FACULTY	RESEARCH AREAS	VACANCY

1.	Prof. Kanchan K. Malik	Community Media, Media Law and Ethics, Media and Gender, Communication and Social Change	1
2.	Dr. Madhavi Ravikumar	Digital media, Digital cultures, Media Studies	1
	Total		2

34. MANAGEMENT STUDIES

SL. No.	FACULTY	Designtion	RESEARCH AREAS	VACANCY
1	Prof. V. Mary Jessica, Dean,SMS	Professor	Corporate Finance, Financial Services and Investment Management, Financial Wellness and Literacy	1
2	Prof. B. Raja Shekhar	Professor	Quantitative Techniques, Operations Management, Quality Management, Consumer Protection, Research Methodology and Supply Chain Management	2
3	Prof. P. Jyothi	Professor	Organisational behaviour, Human Resource Management, Organisational Development, and Entrepreneurship.	1
4	Prof. G.V.R.K. Acharyulu	Professor	Quantitative Techniques, Operations Management, Supply Chain Management and Healthcare Management.	2
5	Dr. Chetan Srivastava	Associate Professor	Strategic Marketing, Services Marketing, Retailing, Advertisement & Brand Management, International Marketing, Sales Management, HRD and Systems.	2
6	Dr. D.V.Srinivas Kumar	Assistant Professor	Customer Relationship Management, Marketing of Services, Management Information Systems and DBMS.	1
7	Dr. Punam Singh	Assistant Professor	Human Resource Management, Organisational Behaviour, Corporate Social Responsibility, Performance Management and Compensation Management	1
8	Dr. Pramod Kumar Mishra	Assistant Professor	Supply Chain Management, Logistics Management, Mathematical Modelling and Business Analytics.	1
9	Dr. Ranjit Kumar Dehury	Assistant Professor	Health Systems Studies, Public Health, TQM in Hospital, Strategic Management in Health Care, Health Manpower Planning, Marketing Management of Health Care, Global Health Diplomacy, Healthcare Data Analytics	1
	Total			12

35. HEALTH SCIENCES: PUBLIC HEALTH

Sl.No.	FACULTY	RESEARCH AREAS	VACANCY
1.	Dr. Ajitha Katta	Public Health (Ageing and disability, health care for the vulnerable population, Road Traffic Injuries, and infectious disease epidemiology)	1
	Total		1

36. BIOMEDICAL SCIENCES

Sl.No.	FACULTY	RESEARCH AREAS	VACANCY
1.	Dr. Athar Habib Siddiqui	Non-Alcoholic Fatty Liver Disease, Insulin Resistance, Diabetes, Metabolic Disorders	1 (JRF)
2.	Dr. Mahadev Kalyankar	Integrative Physiology, Cardio Vascular biology, Renal mechanisms of Hypertension, Renal Dysfunction under Diabetes	1 (JRF)
	Total		2

37. PSYCHOLOGY:

S.No	Faculty	Designation	Areas of Supervision (2021)	PhD Vacancies
1	Dr. G. Padmaja	Head & Associate Professor	Psycho-oncology Geriatric Health Health of Women	1
2	Dr. N.D.S. Naga Seema	Assistant Professor	Community Health Psychology and Yoga	1
3	Dr. Meera Padhy	Assistant Professor	Behavioural Diabetology and Occupational Health	3
4	Dr. Suvashisa Rana	Assistant Professor	Peace Psychology, Positive Psychology, and Psychometrics	1
4	Dr. C.V. Usha	Assistant Professor	Behavioural Cardiology, Adolescent Health, Community Health Psychology	2
5	Dr. Vanlalhruaii	Assistant Professor	Health Psychology, Psycho Oncology, Caregiver Health	2
			Total	10

38. COGNITIVE SCIENCE:

Sl.No.	FACULTY	RESEARCH AREAS	VACANCY
1.	Prof. Ramesh Kumar Mishra	Bilingualism Visual Cognition	2
2.	Dr. Joby Joseph	Information processing in neuronal systems using electrophysiology and computation in insect models.	2
	Total		4

39. MATERIALS ENGINEERING:

Sl. No.	Faculty Name	Areas of Research	No. of Vacancies
1.	Dibakar Das	Magnetic ceramics for microwave applications	1
2.	K Guruvidyathri	Computational materials engineering	1
3.	VVSS Srikanth	Waste biomass conversion to useful Materials	1
4.	Jaiprakash Gautam	1. Laser shock peening of alloy steels and super alloys 2. Texture development and characterization in electrical steels	2
5.	Raj Kishora Dash	Synthesis, characterisation and properties of novel 2D Nanomaterials	1
		Total	6

40. NANOSCIENCE AND TECHNOLOGY:

Sl. No.	Faculty Name	Areas of Research	No. of Vacancies
1.	Swati Ghosh Acharyya	Removal of heavy metal ions from water	1
2.	Raj Kishora Dash	Development of novel nanomaterials incorporated smart materials	1
		Total	2