



हैदराबाद विश्वविद्यालय

University of Hyderabad

विवरण-पत्रिका सहित आवेदन पत्र

Prospectus-cum-Application Form

2012-13

UNIVERSITY OF HYDERABAD
(A Central University established by an Act of Parliament)

Visitor

The President of India

Chief Rector

The Governor of Andhra Pradesh

Chancellor

Prof. C.H. Hanumantha Rao

Vice-Chancellor

Prof. Ramakrishna Ramaswamy

Pro Vice-Chancellor

Prof. E. Haribabu

University's Official Address:

The University of Hyderabad

P.O. Central University

Hyderabad 500 046,

Andhra Pradesh, (India)

University's EPABX: 040-2313 0000

University's Website: <http://www.uohyd.ac.in>

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 शिल्पनेपुणम् ॥

*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 Vasistha. The verse obviously possesses an ethical-
spiritual import and may be translated as follows:*

*"That is (right) action which does not conduce to bondage; that is (true)
knowledge which conduces to final liberation or spiritual emancipation;
(any) other action would cause (mere) exertion; (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 परिक्षम रूप और भिन्न विद्याएँ केवल
कला-कौशल रूप ही हैं ।”



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P.O. Central University
Hyderabad – 500 046
Andhra Pradesh

Admission Enquiries:
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University with Potential for Excellence

To introduce the element of excellence in the University system, the University Grants Commission has identified a few Universities and granted them the status of 'Universities with Potential for Excellence'. Based on the evaluation and recommendations of a committee, the University Grants Commission declared the University of Hyderabad a 'University with Potential for Excellence'. The University was sanctioned a grant of Rs.30 crore under UPE Phase – 1 under this scheme for Interfacial Studies & Research and Holistic Development for a period of 5 years (2002-2007) and Rs.25 crore under the Phase - 2 (2011-2015).

Awarded top grade by NAAC

The University opted for 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 has gone through the re-accreditation process of the NAAC and the NAAC has awarded a Cumulative Grade Point Average (CGPA) of 3.89 on 4.0 scale at 'A' grade.

Rated a High Output-High Impact by NISSAT

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. 4.00 crore 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 Department of Science and Technology (DST) has established High Performance Computing facility, Centre for Nanotechnology, Centre for Modeling Simulation and Design at University of Hyderabad under the FIST Programme with a total financial support of Rs.24 crore.

A 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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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.

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, 20 kms from the city of Hyderabad 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

1. School of Mathematics and Computer / Information Sciences
2. School of Physics
3. School of Chemistry
4. School of Life Sciences
5. School of Humanities
6. School of Social Sciences
7. Sarojini Naidu School of Arts and Communication
8. School of Management Studies

9. School of Medical Sciences
10. School of Engineering Sciences and Technology

The Schools of Physics, Chemistry, Management Studies, and Engineering Sciences & Technology are single discipline schools and the others are multi-department schools.

Departments / Centres of Study

The **School of Mathematics and Computer / Information Sciences** has the following Departments:

1. Department of Mathematics & Statistics
2. Department of Computer and Information Sciences

The **School of Life Sciences** has the following Departments and a Centre:

1. Department of Biochemistry
2. Department of Plant Sciences
3. Department of Animal Sciences
4. Department of Biotechnology
5. UoH DBT Centre for Research and Education in Biology and Biotechnology (CREBB)

The **School of Humanities** has the following Departments and 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 & Translation Studies
7. Centre for Comparative Literature
8. Department of Sanskrit Studies
9. Centre for the Study of Foreign Languages
10. Centre for English Language Studies
11. Centre for Dalit and Adivasi Studies and Translation
12. Centre for Classical Language – Telugu
13. Centre for Endangered Languages and Mother Tongue Studies

The **School of Social Sciences** has the following Departments and Centres:

1. Department of Economics
2. Department of History
3. Department of Political Science
4. Department of Sociology
5. Department of Anthropology
6. Centre for Regional Studies
7. Centre for Folk Culture Studies
8. Centre for Social Exclusion and Inclusive Policy
9. Centre for the Study of Indian Diaspora
10. Centre for Knowledge, Culture & Innovation Studies
11. Centre for Gandhian Economic Thought
12. Centre for Human Rights

The **S.N. School of Arts and Communication** has the following Departments:

1. Department of Dance
2. Department of Theatre Arts
3. Department of Fine Arts
4. Department of Communication

The **School of Medical Sciences** has the following Centre:
Centre for Physical Fitness and Sports Sciences

Standalone Centres offering Academic Programmes

1. Centre for Integrated Studies (CIS)
2. University Centre for Earth and Space Sciences (UCESS)
3. Advanced Centre of Research in High Energy Materials (ACRHEM)
4. Centre for Health Psychology

5. Centre for Neural and Cognitive Sciences
6. Centre for Women's Studies
7. Centre for Buddhist Studies
8. Centre for Modelling Simulation and Design (CMSD)

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 30% of the students are Ph.D. scholars and more than 34% of the students are women. Till 31.3.2012, over 19,947 students of the University had been awarded various degrees through formal education, which consists of 1,756 Ph.Ds., 3,588 M.Phils. 1,556 M.Techs. and 13,047 Postgraduate Degrees and Diplomas. The Faculty of the University include 153 Professors, 71 Associate Professors, 48 Readers and 125 Assistant Professors.

The Faculty of the University have published widely and have obtained research support from several funding agencies. Several Faculty members have won national and international awards and honours in recognition of their out-standing 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 part of the year is pleasant except for the months of 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 and libraries.

MEDIUM OF INSTRUCTION, COURSES, CRITERIA FOR ADMISSION AND ENTRANCE EXAMINATIONS

Medium of Instruction

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

Courses of Study

Admissions during 2012-13 are open for the following courses:

M.A. / M.Sc. (5-year Integrated) Courses

**M.Sc. Courses in Sciences (5-year Integrated) –
(10 Semesters)**

Mathematical Sciences
Physics
Chemical Sciences
Systems Biology
Optometry & Vision Sciences
Health Psychology

**M.A. (5-year Integrated) Courses in Humanities –
(10 Semesters)**

Languages: Hindi, Telugu and Urdu
Language Science

**M.A. (5-year Integrated) Courses in Social Sciences –
(10 Semesters)**

Economics, History, Political Science, Sociology and Anthropology

Postgraduate Courses

M.Sc. courses (4 Semesters)

Mathematics
Applied Mathematics
Statistics-OR
Physics
Chemistry

Biochemistry
Plant Biology & Biotechnology
Molecular Microbiology
Animal Biotechnology
Biotechnology*
Ocean and Atmospheric Sciences
Health Psychology

* The admissions for M.Sc. Biotechnology course during the year 2012-13 will be based on the allotment made by the Jawaharlal Nehru University (JNU), New Delhi which will conduct a common entrance test on 25.5.2012.

M.C.A. (6 Semesters)

M.B.A. Health Care and Hospital Management (4 Semesters)

M.B.A. (4 semesters)*

**The admissions to MBA course for the academic year 2012-13 have been completed based on the percentile scores obtained in CAT 2011 followed by an Interview / Group Discussion.*

M.A. courses (4 Semesters)

English
Philosophy
Hindi
Telugu
Urdu
Applied Linguistics
Comparative Literature
Economics
History
Political Science
Sociology
Anthropology
Communication (Communication & Media Studies, Print Journalism & New Media, and Television & Radio)

M.P.A. Dance (4 Semesters)
(Kuchipudi and Bharatanatyam)

M.P.A. Theatre Arts (6 Semesters)

M.F.A. Courses (4 Semesters)
Painting, Print Making and Sculpture
Art History

Adv. P.G. Diploma Courses (2 Semesters)
Mineral Exploration

(This course is offered in collaboration and cooperation with National Geophysical Research Institute (NGRI), Atomic Minerals Directorate (AMD), National Remote Sensing Agency (NRSA), and National Mineral Development Corporation (NMDC).

Folk Culture studies

P.G. Diploma Courses (2 Semesters)

Health Fitness and Life Style Management
Health Communication

M.Tech. Courses (4 Semesters)

Computer Science

Artificial Intelligence

Information Technology - (The course is offered in collaboration with IDRBT, an Institute established by the Reserve Bank of India)

Computational Techniques (CT) - (a post M.Sc (Physics) course offered by the School of Physics and the Department of Computer and Information Sciences).

Integrated Circuit Technology (I.C.T.)

Bioinformatics - (The course is offered in collaboration with the Centre for DNA Fingerprinting and Diagnostics [CDFD], Hyderabad)

Mineral Exploration - (The course is offered in collaboration and cooperation with National Geophysical Research Institute (NGRI), Atomic Minerals Directorate (AMD), National Remote Sensing Agency (NRSA), and National Mineral Development Corporation (NMDC).

M.Phil. Courses (2 Semesters)

English

Philosophy

Hindi

Telugu

Urdu

Applied Linguistics

Translation Studies

Comparative Literature

English Language Studies

Dalit and Adivasi Studies and Translation

Economics

History

Political Science

Sociology

Anthropology

Regional Studies

Social Exclusion & Inclusive Policy

Indian Diaspora

Cognitive Science

Gender Studies

Ph.D. Programmes (2 to 5 years)

Mathematics

Applied Mathematics

Statistics / Operations Research (OR)

Computer Science

Physics

Chemistry

Biochemistry

Plant Sciences

Animal Sciences

Biotechnology

English

Philosophy

Hindi

Telugu

Urdu

Applied Linguistics

Translation Studies

Comparative Literature

Sanskrit Studies

English Language Studies

Dalit and Adivasi Studies and Translation

Economics
History
Political Science
Sociology
Anthropology
Regional Studies
Folk Culture Studies
Social Exclusion & Inclusive Policy
Indian Diaspora
Science Technology and Society Studies
Human Rights
Gandhian Economic Thought

Dance
Theatre Arts
Communication
Management Studies
Medical Sciences
Materials Engineering
Nano Science and Technology
Earth & Space Sciences
ACRHEM
Psychology
Cognitive Science
Gender Studies
Buddhist Studies
Advanced Computational Methods

Integrated M.Tech / Ph.D. (2 to 5 years)

Materials Engineering
Nano Science and Technology

Integrated M.Sc./Ph.D. (2 to 5 years)

Biotechnology

Note: Candidates seeking admission to any of the Ph.D. programmes listed above should note that it may not be possible to work under a supervisor of her/his choice if the supervisor is already guiding more students than the number prescribed by the respective Board of Studies of the Schools.

Criteria for Admission

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

2. Admission to the University is open to all who fulfill the prescribed qualifications without any distinction of race, caste, creed, language or sex. The selection is made strictly on the basis of merit at the entrance examination except the admission into the following subjects:

M.Tech CS/AI/IT: Admission is based on only the GATE percentile scores in Computer Science and Information Technology. (No written test or interview will be conducted)

M.Tech. IC Technology: Shortlisting of candidates for interview is based on the GATE scores in the order of merit, in one of the following subjects: (1) Electronics and Communication Engineering (2) Instrumentation Engineering (3) Physics.

M.Tech. Computational Techniques: Shortlisting of candidates for interview is based on the GATE scores in the order of merit in Physics or being qualified in UGC-CSIR NET for JRF.

M.Tech. Bioinformatics: Shortlisting of candidates for interview is based on the scores obtained in GATE in the following subjects: Biotechnology – BT; Chemistry – CY; Mathematics - MA; Physics – PH; Agricultural Engineering – AG; Electronics & Communication Engg. – EC; Computer Science and Information Technology – CS; Chemical Engineering – CH. Upto half of the total number of seats may be filled with candidates having background other than Biotechnology.

3. No student shall be eligible for admission to the Postgraduate Degree/Diploma Courses unless She/he has successfully 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.

4. 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 on the basis of 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.

5. Candidates who may be appearing for the qualifying degree examination and expecting their results and certificates before 31.7.2012 may also apply for admission.

Candidates who have completed and will be completing all the formalities viz., written the theory examinations, completed practical examinations, submitted Project reports, completed viva-voce exams etc. before 31.7.2012 and are waiting for 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 **31 July, 2012** will also be allowed to appear for the entrance test. 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. In exceptional cases, the University may give extension of time up to **31.8.2012** to submit the certificates of the qualifying degree examination. Such candidates will be given conditional admission up to **31.8.2012** only. *However, this facility*

shall not be extended to those who are taking regular or supplementary or improvement examinations of the qualifying degree after 31.07.2012 and waiting for the results. In the event of the concerned students failing to (i) submit their certificates of the qualifying Degree examination by **31.8.2012**, 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 conditional admission shall be cancelled forthwith. No request will be entertained for extension of time to submit the certificates under any circumstances beyond **31.8.2012**.

In case of non-submission of other certificates like Transfer Certificate, Migration Certificate and any other academic certificate other than the qualifying degree examination certificates, students may be allowed time upto **30.9.2012**, failing which the Provisional admission of such candidates shall also be 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 interview for admission 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.

6. All courses at the Master's Degree level, 5-Year Integrated Master's Degree, Advanced PG/PG Diploma, M.Phil.; M.Tech.; Integrated M.Sc./Ph.D. and M.Tech./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 do research on full time basis, a limited provision exists for part time research. Facility is also available for external registration to Ph.D. on regular basis

at the recognized Centres of the University. The details are given in 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 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

1. Reservation of seats for SC and ST candidates:

In accordance with 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 inter changeability between these categories, wherever necessary. *Candidates should submit along with the application a copy of the certificate of their caste/ tribe from a Revenue Officer not below the rank of Tahsildar / Mandal Revenue Officer.* Remedial courses in English and other subjects are conducted for such students depending upon the actual need.

Note: SC/ST candidates belonging to the State of Andhra Pradesh should submit an Integrated Community Certificate issued by the competent revenue authority.

For admission to all Postgraduate Courses, viz., M.A., M.Sc., M.C.A., M.F.A., M.P.A., Adv. P.G. Diploma; PG Diploma Courses and 5-Year Integrated Master’s Degree Courses, the minimum eligibility condition for SC/ST candidates is “Pass” in the minimum qualifying examination.

For admission to M.Phil., M.Tech., and Ph.D. a relaxation of only 5% marks in the minimum eligibility condition is provided to SC/ST candidates.

2. Reservation of seats for OBC candidates

In accordance with the policy of the Govt. of India and the guidelines of the University Grants Commission, 27% of the seats in each course are reserved for OBC (non-creamy layer category) candidates. There is no relaxation in minimum qualifications for admission and no concession in the entrance examination fee for OBCs. However, there is a concession in the cut off marks in the entrance examination (both written and interview put together) which is 10% lower than the cut off prescribed for admission for General category candidates in any course. Candidates claiming reservation under this category must enclose an attested copy of the OBC (non-creamy layer) certificate issued by a competent authority without which their claim will not be considered under OBC category.

3. Reservation of seats for the Persons with Disability (PWD) (physically challenged) candidates

3% of seats on approved intake in each course are provided as supernumerary seats for the physically challenged candidates having minimum degree of disability to the extent of 40% provided that their physical disability does not come in the way of pursuing the course. This is split into: 1% for visually challenged (VH), 1% for hearing impaired (HI) and 1% for orthopedically handicapped (OH) candidates with a provision of interchangeability. The minimum eligibility requirements prescribed are relaxed in their cases as in the cases of SC / ST candidates. The candidates under this category should take the entrance examination for admission. Physically Challenged candidates are required to submit a certificate from a 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 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 extra time of 20 minutes for two hour papers and will also be allowed the use of a personal typewriter during the examination. The University will provide scribes for such students. ***They will not be allowed to bring their own scribes.***

4. Reservation of seats to the wards/dependants of Defence personnel

Upto 5% of seats on the approved intake in each course are provided as supernumerary seats for the wards/dependants of Defence Personnel. 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 fulfill all other requirements of admission.

5. Reservation of seats for candidates from the Union Territories / North-Eastern States:

One seat in each of the Departments/Centres in multi-departmental Schools of the University is reserved for the nominees from the following States/Union Territories: **Tripura, Sikkim, Andaman & Nicobar Islands, Manipur, Mizoram, Nagaland, Arunachal Pradesh, Lakshadweep, Dadra and Nagar Haveli.** Further, in the event of non-availability of nominated candidates for a particular department, other departments in the multi-departmental Schools may be permitted to admit up to two students provided that the total number of nominated candidates in a multi-departmental School shall not exceed the total number of departments/centres in the school. In the Schools having no departments, there is a provision of a maximum of two nominated seats in each School.

The nominations of the candidates belonging to the above Union Territories / States should reach the University through the respective UT / State Government by **31st May, 2012.** (*The candidates should fulfill the minimum eligibility requirements prescribed*). Reservations are made for candidates of all the above mentioned States and Union Territories as a whole on the basis of the candidate's performance in the qualifying degree, and the seats so filled

shall be over and above the approved intake (supernumerary seats) for the year.

Note : Applications received directly from the candidates without routing them through the respective Directorate of Higher Education of the UT/NE state and nominations received after 31.5.2012 will not be considered.

Weightage for distinction in sports/cultural activities:

With a view to encourage admission of candidates with an excellent record in Sports and Cultural activities, the University provides a weightage of upto two marks in the entrance examinations - two marks for distinctions achieved at national level and one mark for distinctions at the state level (but not both), for admission to various Post-Graduate courses, and 5-year Integrated Master's Degree courses provided the candidates satisfy the prescribed qualifications for admission. (*Candidates seeking weightage for distinctions in sports / cultural activities must furnish along with their applications, attested/Xerox copies of certificate/s in support of their claim, failing which no weightage would be considered*).

Admission of Foreign Nationals:

Foreign nationals will be admitted over and above the approved intake in each course up to a maximum of 15% of the sanctioned seats in each course, depending upon the availability of adequate infrastructure. Foreign nationals seeking admission through ICCR or other governmental agencies may apply to the University in the prescribed form through the respective bodies. However, self supporting foreign nationals may apply directly to the University for admission in the prescribed form latest by **15th April, 2012** for the July 2012 session. The University may consider admission of foreign nationals '*in absentia*', on the basis of their desire "to be considered *in absentia*" if they possess a valid foreign passport at the time of applying to the University, irrespective of from where they have passed the qualifying examination, subject to the condition that they are found suitable for admission by the Admission Committee of the concerned School / Department / Centre.

Those who have passed the qualifying examination from Universities outside India should enclose with their application, copies of relevant certificates, marks sheets together with the English version of such copies duly attested, if they are in a different language.

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. ***Proficiency in English is a pre-condition for admission of foreign nationals.*** No foreign national will be admitted without a student visa. **Foreign nationals selected for Ph.D. programmes will be allowed to complete the admission only after obtaining a research visa from the Indian Embassy abroad. There is a different fee structure for foreign nationals, as indicated on subsequent pages of this chapter.** Accommodation in the University hostels may be provided if available.

Non-Resident Indians (NRIs): NRIs will also be considered for admission in different courses in accordance with the rules in vogue. NRIs may apply directly to the University for admission in the prescribed form latest by **15th April 2012.** They may be considered for admission, if they are found suitable for admission by the Admission Committee of the concerned School / Department / Centre in accordance with the rules. Candidates who take admission under this category **shall pay the tuition and other fees as payable by foreign nationals.**

Entrance Examinations

1. The Entrance Examinations for various P.G. Degree Courses (other than those offered by the Sarojini Naidu School and M.Sc Mathematics, Statistics-OR, Physics, Health Psychology), M.Sc. (5-year Integrated) courses in Sciences and M.A. (5-year Integrated) courses in Humanities and Social Sciences will consist of only a written test of 100 marks.

2. The entrance examinations in the case of MPA, MFA, and M.A. in Communication in the Sarojini Naidu School will consist of a written test and a practical test/interview.

Only such candidates who are found successful in the written test will be called for the practical test/interview at Hyderabad. *The tentative schedule for the written test, practical test/ interview for all the courses is given in a tabular form at the end of this chapter.*

3. The entrance examination for the **M.Sc. Mathematics, Statistics-OR, Physics, and Health Psychology, M.Phil, Integrated M.Sc./Ph.D. Biotechnology; M.Tech. / Ph.D. Materials Engineering, Nano Science and Technology and Ph.D.** in different subjects will consist of a written test and an interview (after qualifying in the former). The written test will carry 75 marks and the interview 25 marks.

Admissions in **M.Tech Computer Science, Artificial Intelligence, and Information Technology,** will be granted only on the basis of GATE scores in Computer Science and Information Technology.

Admission in **M.Tech IC Technology** is based 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 followed by an interview for the short listed candidates. There is no written test for admission to this course.

Admission in **M.Tech. Computational Techniques** is based on the GATE scores in the order of merit in Physics or being qualified in UGC-CSIR NET for JRF followed by an interview for the shortlisted candidates. There is no written test for admission to this course.

Admission in **M.Tech. Bioinformatics** is based on the percentile score obtained in GATE examination and followed by an interview. GATE in the following subjects will be considered: Biotechnology – BT; Chemistry – CY; Mathematics - MA; Physics – PH; Agricultural Engineering – AG; Electronics & Communication Engg. – EC; Computer Science and Information Technology – CS; Chemical Engineering – CH.

4. **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 **written test in some of the courses** as listed below is in objective or multiple choice questions and will be evaluated using the OMR technology. The candidates will be required to **mark the answers in the OMR Sheet with 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 :

M.Sc. and M.A. (5-year Integrated) in different disciplines, M.Sc. - Mathematics/Applied Mathematics, Statistics-OR, Physics, Chemistry, Biochemistry, Plant Biology & Biotechnology, Molecular Microbiology, Animal Biotechnology, Ocean and Atmospheric Sciences, Health Psychology; M.C.A., M.A. - Hindi, Telugu, Applied Linguistics, Economics; M.Phil. – Hindi, Telugu, Applied Linguistics, Translation Studies Economics; Integrated M.Tech./Ph.D. Materials Engineering, Nano Science and Technology; Ph.D. in Animal Sciences, Plant Sciences, Biotechnology, Hindi, Applied Linguistics, Translation Studies, Economics, Management Studies, Materials Engineering, Nano Science and Technology, ACRHEM, Integrated M.Sc./Ph.D. Biotechnology and PG Dip in Health Fitness & Life Style Management.

Note: The candidates for M.A. Communication are required to answer the question paper partly in OMR sheet and partly in a separate answer book provided to them.

5. The written tests for all the courses will be held from **1st to 7th June 2012** at 35 different Centres in the country, as listed in this chapter.

6. **The duration of the written test for all courses will be two hours.**

7. **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.

8. **Please read the following carefully:**

The question paper for the entrance test for all courses (except for Ph.D. in some subjects - please see the Chapter on 'Schools of Study' for further details) shall consist of two parts - Part-'A' and Part- 'B'.

Part-'A' of the question paper shall necessarily consist of objective type questions preferably of one mark each for a total of 25 marks. *The marks obtained by the candidates in Part 'A' will be used for resolving tie cases.*

All the Schools/Departments/Centres will follow negative marking for Part- 'A' of the question paper. **There will be negative marking of 0.33 mark for every wrong answer.**

Those Schools/Departments/Centres, which may set the entire paper as "objective type", may follow negative marking for Part- 'B' of the question paper as well.

The following criteria shall be followed, in sequence to resolve ties, where candidates secure the same marks in the written test :

- (a) **First criterion:** Marks obtained in Part - A of the written test.
- (b) **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.
- (c) **Third criterion:** Marks obtained in the degree examination immediately preceding the qualifying degree examination.
- (d) **Fourth criterion:** Marks obtained in the next lower public examination.

9. Interviews for candidates short-listed for admission to M.Phil., M.Tech., and Ph.D. on the basis of written test and those exempted from written test (on the basis of UGC/CSIR JRF, RGNF/MANF, (NBHM, in the case of Ph.D. for Maths, ICMR/ ICAR/DBT Fellowship for Ph.D. in the School of Life Sciences), and ICMR Fellowship for

Ph.D. in the School of Social Sciences, Integrated M.Tech./Ph.D. Materials Engineering, Nano Science and Technology, Integrated M.Sc./Ph.D. Biotechnology, M.Sc Mathematics, Statistics-OR, Physics, Health Psychology and the courses offered by the S.N. School are tentatively scheduled to be held between 5th July to 11th July 2012, in the respective Schools/ Departments/ Centres. However, exact dates of the interview/practical test will

be notified and made available on the University website for the information of the short listed candidates.

10. Candidates called for the entrance examinations (Both written and/or practical test / interview) will appear for the examinations at their own expense.

Schedule for notification of the entrance examination results etc. and making them available on the University website

Particulars of the scheduled event	Adv. PG Dip. / PG Degree Courses in Sciences (except M.Sc in Maths, Statistics-OR, Physics, and Health Psychology), Humanities, Social Sciences and M.A./M.Sc. (5-year Integrated) Courses	M.Tech. CT, IC Technology and Bioinformatics, Adv. PG Dip. / M.Tech. Mineral Exploration , M.Phil, Ph.D, P.G./P.G. Diploma courses of S.N. School, M.Sc. in Maths, Statistics-OR, Physics, and Health Psychology, M.Sc. (5-year Integrated) in Optometry and Vision Sciences, P.G. Dip. in Health Fitness and Life Style Management	M.Tech CS/AI/IT
Notification of short-listed candidates for interviews / practical tests	-----	27.6.2012	---
Notification of list of selected candidates (Main & waiting lists)	4.7.2012	23.7.2012	6.6.2012

Note:(i) The Entrance results will be made available on the internet: <http://www.uohyd.ac.in>; www.schools9.com; <http://www.indiaresults.com>. 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.

(ii) No request for extension of time for interview/practical test or for completion of admission will be entertained on account of any reason/s whatsoever.

iii) Lists will be notified at the Office of the Controller of Examinations, Administration Building, University Campus, Hyderabad, and also at the city campus “The Golden Threshold (GT)”, Abids, Nampally Station Road, Hyderabad.

Commencement of classes

- a) MBA and M.Tech. in CS/AI/IT : **16.7.2012**
- b) All PG courses in Sciences (except M.Sc., Mathematics, Statistics-OR and Physics), Humanities, Social Sciences and M.A./M.Sc.(5-year Integrated) Courses : **23.7.2012**
- c) M.Tech. Integrated Circuit Technology, Computational Techniques, Bioinformatics, M.Phil., Ph.D., Adv. PG Dip/ M.Tech. Mineral Exploration, Integrated M.Tech./Ph.D.; M.Sc./Ph.D.; PG/PG Dip Courses offered by the S.N. School, M.Sc in Mathematics, Statistics-OR, Physics and Health Psychology : **8.8.2012**

Cut off marks for admission to M.Phil., M.Tech., Integrated M.Sc./Ph.D., M.Tech./Ph.D. and Ph.D. programmes

- 1) The following cut-off marks will be followed in respect of the entrance examination (both written and interview put together) for admission to M.Phil., M.Tech., Integrated M.Tech./Ph.D., Integrated M.Sc./Ph.D. and Ph.D. programmes with a provision that all the seats reserved for SC/ST will be filled during July 2012 session.

Course	Cut off marks		
	For General category	For OBC (10% less than the cut off for General category)	For SC/ST/PH
M.Phil and M.Tech	50%	45.0%	30%
Ph.D.	55%	49.5%	40%
Integrated M.Tech/ Ph.D. and M.Sc./Ph.D.	55%	49.5%	40%

- 2) a) Candidates qualified in **UGC/Joint UGC-CSIR** National level test for JRF, **NBHM Fellowships test** (for the purpose of admission to Ph.D. in Mathematics/Statistics), **ICMR / ICAR / DBT** Fellowship test (for the purpose of admission to Ph.D. in the School of Life Sciences), and **ICMR Fellowship** test (for the purpose of admission to Ph.D. in the School of Social Sciences) and the awardees of **RGNF and MANF** are exempted from appearing in the written test of the entrance examination for admission to **M.Phil or Ph.D.** in the concerned subject, in lieu of which they will be given a weightage of 40 out of 75 marks in the written tests. They will, however, have the option to appear in the written tests to secure more than 40 out of 75 marks.
- b) As the UGC-CSIR JRF holders are expected to avail of the Fellowship within one year from the date of the award, such candidates may be exempted from the written test for admission to Ph.D. if they have been holding the Fellowship for not more than two years before their application for Ph.D. admission. No candidate will be allowed to avail of this facility more than once.
- c) KVPY scholars, Science Olympiad and 1st rankers of different Boards of +2 level of education seeking admission in 5-year Integrated M.Sc. in Sciences, Health Psychology and M.A. in Humanities/Social Sciences courses are exempted from the written test in

lieu of which they will be given a weightage of marks equal to the average of first 64 students from our entrance examination in lieu of the written test.

Note: - (i) *Candidates qualified in UGC-CSIR National level test for Lectureship alone and those who have qualified in GATE, JEST, wherever these are prescribed as one of the eligible conditions for admission are not exempted from appearing in the written test for admission to M.Phil./Ph.D. Therefore such candidates should appear in the written test also.*

- (ii) Candidates possessing M.Phil./M.Tech. degree and seeking admission to the Ph.D. Programme for which they are otherwise eligible to apply, are also not exempted from appearing in the written test of the entrance examination. Therefore, they must note that they have to take the written test also.

(iii) Wherever interview is component of entrance examination for admission, though the candidates secure more than the cutoff marks in the written test / weightage and fail to appear for the interview shall not be entitled for admission.

3) **Part time registration to Ph.D.:** Facilities exist to a limited extent 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 anywhere in Andhra Pradesh for the remaining Schools (except the Department of Computer and Information Sciences). Part-time Registration to Ph.D in Computer Science is only for teacher candidates who are teaching in UGC/AICTE approved Universities or P.G colleges or Engineering Colleges within Andhra Pradesh.

4) **External Registration to Ph.D.:** The University also provides facility for admission to the Ph.D. under External Registration category. The external candidate shall work at the recognised 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 recognised institution.

In the case of External Registration to Ph.D in Computer Science, the candidates who are working in the following Institutes in the twin cities alone are allowed to register under this category. Candidates who register under external registration should have a recognised guide

(recognised by the University) from the parent organization listed below, and also a guide from the Department of Computer / Information Sciences.

* NRSA *CMC *ADRIN *ANURAG *RCI *IDRBT * NGRI * CDAC *ATC of TCS

List of Institutions recognized as External Centres

The following Institutions in the twin cities of Hyderabad and Secunderabad have been recognised by the University for external registration to Ph.D. in the subjects indicated against them.

S.No. Name of the Institution	Subject/s of Research
1 National Remote Sensing Agency	- Computer Science, Physics, Earth & Space Sciences
2 Computer Maintenance Corporation Ltd.	- Computer Science
3 Defence Metallurgical Research Laboratory	- Physics, Engineering Sciences & Technology
4 Centre for Economic and Social Studies	-Economics, Political Science, Anthropology, and Regional Studies
5 National Institute of Small Industry Extension Training	- Economics and Anthropology
6 Institute of Public Enterprise	- Economics
7 Advanced Data Processing Research Institute	- Computer Science
8 Directorate of Rice Research	- Life Sciences
9 Directorate of Oil Seeds Research	- Life Sciences
10 Bhagwan Mahavir Medical Research Centre	- Life Sciences
11 Advanced Numerical Research and Analysis Group	- Computer Science (ANURAG)
12 Dr. Reddy's Research Foundation	- Chemistry and Life Sciences
13 International Crops Research Institute for Life Sciences	- Semi Arid Tropics (ICRISAT)
14 Research Centre Imarat (RCI)	- Computer Science
15 Centre for DNA Fingerprinting and Diagnostics (CDFD)	- Life Sciences
16 National Institute of Rural Development (NIRD)	- Economics, Political Science, Sociology, Anthropology, Regional Studies
17 Institute for Development and Research in Banking Technology (IDRBT)	- Computer Science, Information Technology, Management Studies
18 Indian Institute of Chemical Technology	- Chemistry
19 L.V. Prasad Eye Research Institute	- Biochemistry, Animal Science, and Communication
20 Shantha Biotechnics	- Animal Sciences
21 Indian Immunologicals	- Animal Sciences
22 Administrative Staff College of India (ASCI)	- Management Studies
23 Blue Peter Research Centre	- Animal Sciences
24 National Geophysical Research Institute (NGRI)	- Computer Science, Artificial Intelligence, Physics, Chemistry and Earth & Space Sciences
25 National Institute of Nutrition (NIN)	- Biochemistry
26 International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI)	- Engineering Sciences & Technology, ACRHEM and Physics
27 Non-ferrous Materials Technology Development Centre(NFTDC)	- Engineering Sciences & Technology
28 Institute of Life Sciences (ILS)	- Chemistry and Life Sciences
29 Centre for Development of Advanced Computing (CDAC)	- Computer/Information Sciences
30 Advanced Technology Centre (ATC) of TCS	- Computer/Information Sciences, Life Sciences
31 Bharat Biotech Foundation	- Life Sciences
32 Aurigen Discovery Technologies	- Chemistry and Life Sciences
33 Asian Health Care Foundation	- Life Sciences
34 Global Medical Education and Research Centre	- Life Sciences
35 Indian National Centre for Ocean Information Sciences (INCOIS)	- Earth and Space Sciences

Associate Institution Status

In order to boost partnerships for mutual benefit, the University has granted **Associate Institution Status** to the following Institutions. These Institutions are entitled to admit Ph.D. students based on their infrastructure and logistics strictly complying with the guidelines approved by the University in this regard and also complying with the other rules and regulations on admissions of the University which will change from time to time.

1. Indian Institute of Chemical Technology (IICT)
2. L.V. Prasad Eye Research Institute (LVPEI)
3. Institute of Life Sciences (ILS)
4. Institute for Development and Research in Banking Technology (IDRBT)

6) Ph.D. admissions for October 2012, January 2013, and April 2013 sessions

After completion of the regular admissions in July, 2012, vacant seats if any, in the Ph.D. programmes may be filled from among the JRF qualified candidates. CSIR JRFs may join an interested Faculty member of the University at any time before the time lapse of the award for the sake of claiming their fellowship. However, they may be considered for admission in accordance with the norms of the University for which the candidates have to apply in the prescribed application form. Interviews will be conducted and selections for admission will be made based on the performance of the candidates in the interview, also considering the weightage for their JRF qualification in accordance with the following schedule :

- i) **1st to 31st of October 2012**
- ii) **1st to 31st of January 2013**
- iii) **1st to 30th of April 2013**

The University will not issue any press notification in this regard. However, information indicating the likely number of seats to be filled in each School/Department/Centre, will be available at the University's web site: www.uohyd.ac.in

Note: Candidates for admission to Ph.D during the above sessions **should possess the certificates of their qualifying degree examination by the date of their interview.** Selected candidates must submit all their qualifying degree certificates and other certificates required at the time of admission. Extension of time will not be granted for submission of any of the certificates during these sessions 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

In order 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/associate 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./Integrated Master's Degree/Adv. PG/PG Dip./ M.Phil./ M.Tech./ Ph.D./M.Sc./Ph.D.), are required to clear their dues of the earlier semester/s in all respects before registering for the following semester of the course.

Every Ph.D. student (regular/part-time/external/associate) 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.

Note: In the case of post-matric scholarship holders belonging to the SC/ST/OBC categories from the State of Andhra Pradesh, semester-wise registration for the winter semester will be done without insisting on the clearance of mess and tuition fee dues of the monsoon semester, if the same are reimbursable by the Social Welfare/Backward Classes Welfare Department of the State Government. However, they should clear all the dues of the winter semester before registering for the monsoon semester.

Implementation of Credit System for all the courses

The credit system has been implemented for all the PG / Adv.PG / PG Diploma, all the M.Phil and M.Tech courses from the academic year 2004-05. The necessary guidelines for evaluation of students under this system are available in Chapter 6 of this brochure.

General

1) Before filling the Application Form and the Basic Data 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.

2) The last date for receiving the completed applications for admissions for the July session is **May 4, 2012**. Applications received after the closing date will not be considered. *For further details, please refer to the "Instructions to the Candidates for filling the application form"*.

3) The University will not be responsible for any postal delay. Candidates are therefore advised to apply for admission well in time.

4) **All disputes are subject to Hyderabad jurisdiction.**

Hall Tickets for the Entrance Examinations:

a) The Hall Tickets will be made available for downloading on the University website by 21st May, 2012. The University will not send the hall tickets by post.

b) The candidates are required to download the hall tickets and appear for the examination at the centre opted for. **Candidates will not be permitted to write**

the entrance exam at any other centre except the centre mentioned in the hall tickets downloaded.

c) It may be noted that all those who apply may be issued Hall Tickets without verifying whether or not they satisfy the eligibility criterion for admission to a course. This will be examined at the time of final admission, if granted. The candidates are therefore advised to go through the Prospectus-cum-application 2012-2013 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 exam including interview / practical test will not entitle a candidate for any claim on admission if she/he does not fulfil the required eligibility conditions for admission as prescribed in the Prospectus-cum-application form 2012-13. **This will be thoroughly verified at the time of admission, if granted. At any stage if it is found that any candidate does not fulfill the minimum eligibility requirements, the admission if granted, shall be cancelled forthwith.**

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

e) *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.*

List of Examination Centres

S.No.	Exam Centre	Venue of the Exam Centre
1.	Ahmedabad	School of Sciences, Gujarat University, Navrangpura, Ahmedabad – 380 009. Gujarat, India.
2.	Aizawl	Life Science Block, Pachhunga University College, Aizawl, Mozoram
3.	Anantapur	S.K.University College, Anantapur
4.	Bengaluru	Rashtreeya Vidyalaya Teachers College, Jayanagar, Bangalore – 560 011
5.	Bhubaneswar	P.G. Dept. of Political Science, Utkal University, Bhubaneswar 751 004, Orissa
6.	Bhopal	Barkatullah University Institute of Technology Barkatullah University, Hoshangabad Road, Bhopal – 462026 (MP)
7.	Chennai	Chandrashekar Hall, The Institute of Mathematical Sciences, 4 th Cross Road, CIT., Campus, Taramani, Chennai – 600 113
8.	Cochin	Department of Polymer Science & Rubber Technology, Kochi – 682022
9.	New Delhi	Faculty of Engineering & Technology, Jamia Millia Islamia, Maulana Mohammed Ali Jauhar Marg, New Delhi – 110 025
10.	Dimapur	Dimapur Government College, Oriental Colony, Dimapur – 797112 – Nagaland
11.	Guwahati	Arts Building, Gauhati University, Guwahati – 781014
12.	Hyderabad	University of Hyderabad Campus, Prof. C.R. Raod, P.O. Central University, Hyderabad – 500 046
13.	Jammu	Govt. Gandhi Memorial Science College, Canal Road, Jammu (Tawi) Main Block, Room NO.10 & 11
14.	Jaipur	Jaipur University, Jaipur
15.	Kadapa	Yogi Vemana University, Kadapa
16.	Karimnagar	S.R.R.Government Degree & P G College, Jagtial Road, Karimnagar – 505001
17.	Kolkatta	Jadhavpur University Campus, Kolkatta
18.	Lucknow	School for Ambedkar Studies (SAS), Babasaheb Bhimrao Ambedkar University, Vidya Vihar, Raibareli Road, Lucknow – 226025
19.	Madurai	School of Historical Studies, Madurai Kamaraj University, Palkalai Nagar, Madurai 625 021
20.	Mumbai	University of Mumbai, Vidyanagari Campus, Kalina, Santacruz (East), Mumbai – 400 098
21.	Nellore	Vikrama Simhapuri University, Dargamitta, Nellore 534003
22.	Nizamabad	Telangana University, Nizamabad
23.	Nagpur	Laxminarayana Institute of Technology, Opp. Bharat Nagar, Amravati Road Nagpur – 44003 (M.S.)
24.	Pune	Department of Law, University of Pune, Ganeshkhind Road, Pune – 411 007
25.	Patna	B.N. College, Pariksha Bhavan, Ashok Rajpath, Patna – 800004
26.	Raipur	College of Agriculture, Krishak Nagar, Raipur (CG) – 492012
27.	Ranchi	Multipurpose Examination Hall, Morhabadi Campus, Ranchi University, Ranchi
28.	Shillong	Science Seminar Hall, Near Department of Biochemistry, NEHU, Permanent Campus, Malai Shillong – 793022
29.	Srikakulam	Dept. of Commerce & Management Studies, Dr. B.R.Ambedkar University Srikakulam, Etcherla (A.P.) – 532410
30.	Srinagar	Examination Block, University of Kashmir, Srinagar
31.	Tirupathi	S.G.S. Arts College, Tiruchanoor Road, Tirupati 517 501
32.	Vijayawada	P.B.Siddhartha College of Arts & Science, Mogalrajpuram, Siddhartha Nagar, Vijayawada – 520 010
33.	Visakahapatnam	School of Distance Education, Near Outgate, Andhra University, Visakhapatnam – 530 003
34.	Vizianagaram	M.R. College (Autonomous), Vizianagaram, Near Police Station Complex And Clock Tower
35.	Warangal	1. Humanities Building, University College, Kakatiya University, Warangal 2. Examination Branch, Kakatiya University, Warangal.

- Note :** (1) The University reserves the right to cancel any of these centers and allot another nearer centre to the applicants of the Centre cancelled.
- (2) 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. However, the entrance examination fees paid by the candidates opted for such centres for whom the examination / s were disturbed and could not be held will be refunded.
- (3) Based on the number of candidates, the venues at the centres may be increased.

Fees Payable by Students (Indian Nationals) admitted during 2012-2013

- | | | |
|----------------------------------|---|---------------------------------|
| 1) Course | 6) Library Fee (Per Sem) | 11) Medical Fee, (Per annum) |
| 2) Admission Fee | 7) Exam fee (Per Sem) | 12) Students aid fund (Per Sem) |
| 3) Other Fees: | 8) Sports Fee (Per Sem) | 13) Total Cols. (2-12) |
| a) once at the time of admission | | |
| b) Fees (Per Sem /Per annum) | | |
| 4) Tuition Fee (Per Sem) | 9) Internet Charges (Per Sem) | 14) Deposits (Refundable) |
| 5) Lab Fee (Per Sem) | 10) Students Welfare / Union Fund (Per annum) | 15) Grand Total Col (13-14) |

Figures in Rs.

(1)	(2)	(3)		(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
		(a)	(b)												
M.A. (5-year Integrated), M.A. Courses in Humanities & Social Sciences	240	250	--	385	--	200	150	120	175	330	700	65	2615	1100	3715
M.Sc. Maths/Statistics/Physics M.P.A Dance/Theatre Arts M.F.A Painting/ Print Making/ Sculpture/ Art History/ Adv.P.G. Diploma In Folk Culture Stud.	240	250	--	385	660	200	150	120	175	330	700	65	3275	1320	4595
M.Sc. Biotechnology	240	250	--	2630	1275	200	150	120	175	330	700	65	6135	1320	7455
5 – Year Int. M.Sc. in Optometry & Vision Sciences	240	250	5500 *	6710	1165	200	150	120	275	330	700	65	15705	1980	17685
M.Sc. Animal Biotechnology	240	250	4950**	385	660	200	150	120	175	330	700	65	8225	1980	10205
M.Sc. Chemistry/ Biochemistry /Plant Biology & Biotechnology, Molecular Microbiology, M.Sc. (5-year Integrated) (Sciences/ Health Psychology)	240	250	--	385	660	200	150	120	175	330	700	65	3275	1980	5255
M.Sc. Health Psychology	1605	250	5500**	1250	1275	200	220	120	175	330	700	65	11690	1980	13670
M.C.A.	240	250+ 14300	--	7920	2145	200	150	120	175	330	700	65	26595	1320	27915
M.B.A.	2145	250 + 14300	--	1646 5	4290	200	150	120	175	330	700	65	39190	2805	41995
M.B.A. Health Care and Hospital Management	2220	250 + 17600	--	2200 0	5500	200	220	120	275	330	700	65	49480	2640	52120
P.G. Diploma in Health Fitness and Life Style Management	240	250	--	6820	2200	200	220	120	275	330	700	65	11420	1980	13400
M.A. Communication	240	250	4950*	385	1320	200	150	120	175	330	700	65	8885	1320	10205
P.G. Diploma in	240	250	--	385	1320	200	150	120	175	330	700	65	3935	1320	5255

(1)	(2)	(3)		(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
		(a)	(b)												
Counseling Psychology															
M.Tech (CS / AI / IT)	240	250+ 14300	--	7865	2145	200	220	120	275	330	700	65	26710	1320	28030
M.Phil Courses in Humanities and Social Sciences/ Gender Studies	240	250	--	605	--	200	220	120	275	330	700	65	3005	1320	4325
M.Phil. Cognitive Science/ M.Tech. Comp. Tech./ M.Tech IC Technology	240	250	--	605	660	200	220	120	275	330	700	65	3665	1320	4985
M.Tech. Bioinformatics	1610	250	13200 **	1255	1275	200	220	120	175	330	700	65	19400	1980	21380
Ph.D. (Full – time) Humanities/Social Sciences / Gender Studies / Buddhist Studies	240	250	--	825	--	200	--	120	275	330	700	65	3005	1100	4105
Maths/Statistics/Computer Science/ Physics/ Electronics Science/ Dance/Theatre Arts / Management Studies/ Communication/ Folk Culture Studies/ Cognitive Science	240	250	--	825	660	200	--	120	275	330	700	65	3665	1320	4985
Chemistry/Biochemistry/ Plant Sciences/Animal Sciences/ Biotechnology/ ACRHEM/ Earth & Space Science/ Int. M.Sc./Ph.D. Biotechnology/ High Performance Computing/ Medical Sciences	240	250	--	825	660	200	--	120	275	330	700	65	3665	1980	5645
Int. M.Tech/Ph.D. Materials Engineering/ Nano Science and Technology / Ph.D. Materials Engineering / Nano Science & Technologies	240	250	5500 *	3960	1650	200	220	120	275	330	700	65	13510	1980	15490
Ph.D. Part –Time / External Registration Humanities/Social Sciences / Gender Studies / Buddhist Studies	240	250	--	1430	--	200	--	120	275	330	700	65	3610	1100	4710
Maths/Statistics/ Computer Science/ Physics/Electronics Science/Dance/Theatre Arts/ Management Studies/ Communication/ Folk Culture Studies/ Cognitive Science	240	250	--	1485	660	200	--	120	275	330	700	65	4325	1320	5645
Chemistry/Biochemistry/ Plant Sciences/Animal Sciences/ Biotechnology/ ACRHEM/ Earth & Space Science/ High Performance Computing/Medical Sciences	240	250	--	1485	660	200	--	120	275	330	700	65	4325	1980	6305
Ph.D. Materials Engineering / Nano Science & Technologies	240	250	5500 *	3960	1650	200	220	120	275	330	700	65	13510	1980	15490

Note: * = fees per semester; ** = fees per annum

Mess deposit to be paid at the time of Hostel admission

	General Category Rs.	SC/ST Scholarship holders Rs.
Mess Deposit (At the time of admission)(refundable) : 5-Year Integrated courses	5000 *	1500
For all other courses	2500	
Room rent (per semester)	500	-Nil-
Crockery fees (per year)	250	250
Hostel Caution Money Deposit (refundable except service charge of Rs.200/-)	600	400

* To be collected in two installments @ 2500/- at the time of admission and Rs.2500/- at the beginning of their 3rd year of study.

Fees payable by the Foreign National/NRI students

Sl. No.	Course	Fees per semester (in US \$)
1	MCA, M.Tech.(CS / AI / IT) and M.A. Communication	990
2	MBA For the candidates from developed countries For the candidates from developing countries	4950 2200
3	MBA Health Care and Hospital Management	
4	PG Courses in Sciences, 5-Year Integrated Master's Degree courses in Sciences, M.Tech. in CT, IC Technology and Bioinformatics	990
5	PG Courses other than Sciences and 5-year Integrated M.A. Courses in Humanities and Social Sciences	605
6	M.Phil Programmes in Humanities and Social Sciences	800
7	Ph.D. Programmes in Sciences, Computer Science and Management Studies	990
8	Ph.D. Programmes in Humanities, Social Sciences and S.N. School	800
9	M.Phil/Ph.D. Programmes in all subjects for the candidates from SAARC countries	400

- Note:**
- Foreign Nationals/ NRIs are required to pay the above specified semester fees and the fees as shown against columns **9 to 11 and 14** of the fees structure and Rs. 250 towards the Alumni fund in Indian Rupees.
 - Candidates who are granted admission in MBA, MCA and M.Tech (CS/AI/IT), M.Tech Bioinformatics, M.Sc Animal Biotechnology, Health Psychology, Integrated M.Tech/Ph.D. in Materials Engineering/Nano Science and Technology, 5-year Integrated M.Sc in Optometry & Vision Sciences, MBA in Health Care and Hospital Management and M.A. communication are also required to pay in Indian Rupees an amount equivalent to US \$ 910 as one time payment towards Development Fee at the time of admission.

**Minimum qualifications for admission to various courses
and schedule for the entrance examinations during the year 2012-13**

Master's degree courses (5-year Integrated)

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
M.Sc. (5-Year Integrated) in Sciences	Mathematical Sciences	16	With a minimum of 60% marks at +2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent) with Science subjects Note: The candidates who hold KVPY fellowship, Science Olympiad (those who have atleast attended the training programs conducted by the Homi Bhabha Centre, Mumbai), IIT - JEE 2012 main list qualified candidates and first rank holders of different State/Central Boards at +2 level may seek exemption from the written test. In such cases, they would be awarded the equivalent of the average of the first 64 students from the University written test. They have the option of writing the exam to improve their position.	7.6.2012 10.00 a.m.	--
	Physics/ Chemical Sciences	16			
	Systems Biology	16			
		16			
M.A. (5-Year Integrated) in Humanities	Telugu	15	With a minimum of 60% marks at +2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent)	5.6.2012 10.00 a.m.	--
	Hindi	08			
	Urdu	07			
	Language Science	15			
M.A. (5-Year Integrated) in Social Sciences	Economics	11	With a minimum of 60% marks at +2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent)	7.6.2012 2.00 p.m.	--
	History	10			
	Political Science	10			
	Sociology	11			
	Anthropology	10			
M.Sc. (5-Year Integrated)	Health Psychology	16	With a minimum of 60% marks at +2 level of education or equivalent (Intermediate/ CBSE/ ICSE/ HSC or equivalent) in Arts and Sciences	2.6.2012 10.00 a.m.	--
M.Sc. (5-Year Integrated)	Optometry and Vision Sciences	20	With a minimum of 60% aggregate marks in Intermediate/CBSE/ICSE/HSC or equivalent Board Examination with Science subjects	6.6.2012 2.00 p.m.	7.7.2012 10.00 a.m.

Postgraduate courses

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of interview
M.Sc.	Mathematics/ Applied Mathematics	40	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	2.6.2012 2.00 p.m.	6.7.2012 & 7.7.2012 10.00 a.m.
M.Sc.	Statistics-OR	20	Same as above	1.6.2012 2.00 p.m.	6.7.2012 & 7.7.2012 10.00 a.m.
M.Sc.	Physics	45	B.Sc. with a minimum of 60% marks in the aggregate of science subjects with Physics as one of the main subjects in combination with Mathematics OR with atleast 55% marks in B.E./B.Tech. degree with a minimum of 60% in the aggregate of science related subjects: Physics, Mathematics and Electronics.	5.6.2012 2.00 p.m.	6.7.2012 & 7.7.2012 10.00 a.m.
M. Sc.	Chemistry	45	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	3.6.2012 2.00 p.m.	--
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	1.6.2012 2.00 p.m.	--
M.Sc.	Plant Biology & Biotechnology	18	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, Biotechnology.	6.6.2012 10.00 a.m.	--
M.Sc.	Molecular Microbiology	12	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.	1.6.2012 10.00 a.m.	--
M.Sc.	Animal Biotechnology	18	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.	2.6.2012 10.00 a.m.	--
M.Sc.	Biotechnology*	25*	Bachelor/s degree in Physical, Biological, Agricultural, Veterinary and Fishery Sciences, Pharmacy, Engineering/Technology, 4 years B.Sc. (Physician Assistant Course) or medicine (MBBS) or BDS with atleast 55% marks		

M.Sc.	Health Psychology	12	With a minimum 60% marks at the Graduate level with Psychology as one of the subjects	4.6.2012 10.00 a.m.	7.7.2012 10.00 a.m.
M.C.A.		60	Bachelor's degree with at least 60% marks in aggregate, in any discipline with mathematics as a compulsory subject at the Higher Secondary (10+2) level.	3.6.2012 10.00 a.m.	--
M.Sc.	Ocean & Atmospheric Sciences	10+5@	With atleast 55% marks in the Bachelor's degree in any branch of Science with Mathematics & Physics as compulsory subjects at the B.Sc. level, OR B.Tech. in Civil / Mechanical / Electrical.	4.6.2012 2.00 p.m.	9.7.2012 10.00 a.m.

* The admissions will be based on the allotment made by Jawaharlal Nehru University (JNU), New Delhi which will conduct a common entrance test on 25.5.2012.

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- Note:** 1. For calculating the prescribed percentage of marks for admission to M.Sc./MCA courses the marks obtained in the language papers of the qualifying degree will be excluded.
2. 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.

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Inter-view
M.A.	English	45	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 compulsory subject.	5.6.2012 10.00 a.m.	--
M.A.	Philosophy	23	Bachelor's degree in any subject/s with at least 50% marks in aggregate.	6.6.2012 10.00 a.m.	--
M.A.	Hindi	38	With at least 50% marks in the Bachelor's degree with at least 50% marks in Hindi as optional (Elective) subject; OR with at least 50% marks in the Bachelor's degree with at least 55% marks in Hindi as compulsory Language subject (second language). Note: <i>Bachelor Degree holders who do not possess 55% marks in compulsory (Second language) Hindi or 50% marks in optional (elective) Hindi will also be considered for admission provided they pass the certificate examination with 50% marks (equivalent to B.A. in Hindi) approved by the Government of India.</i>	4.6.2012 10.00 a.m.	--
M.A.	Telugu	45	With at least 50% marks in the Bachelor's degree with at least 50% marks in Telugu as optional subject; OR with at least 50% marks in the Bachelor's degree with at least 55% marks in Telugu as the compulsory subject.	6.6.2012 2.00 p.m.	--
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 compulsory subject i.e. as second language.	6.6.2012 2.00 p.m.	--
M.A.	Applied Linguistics	23	At least 50% marks in the Bachelor's degree with at least 50% marks in Linguistics / any language as an optional/honours subject; OR with at least 55% marks in the Bachelor's degree in any other discipline.	4.6.2012 2.00 p.m.	--
M.A.	Comparative Literature	11	50% marks in the Bachelors degree with at least 50% marks in English as optional subject; OR 50% marks in Bachelors degree with 55% marks in any literature subject/ English as <u>Compulsory</u> subject.	1.6.2012 2.00 p.m.	--
M. A.	Economics	60	With at least 50% marks in the Bachelor's degree 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.	4.6.2012 2.00 p.m.	
M.A.	History	52	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.	4.6.2012 10.00 a.m.	
M.A.	Political Science	52	Bachelor's degree with atleast 50% marks OR Equivalent Grade in Social Sciences or Humanities subjects OR 55% marks in any other subjects.	6.6.2012 10.00 a.m.	

Course	Subject	Intake	Minimum Qualification	Date and time of written test	Date and time of interview
M.A.	Sociology	52	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 the Bachelor's degree and at least 55% 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.	6.6.2012 2.00 p.m.	--
M.A.	Anthropology	30	With at least 50% marks in the Bachelor's degree in Social Sciences / Humanities / Commerce subjects OR Bachelor's degree with at least 55% marks in any other subject.	2.6.2012 2.00 p.m.	--
Adv. PG Diploma	Folk Culture Studies	19	Any Master's degree with a minimum of 55% aggregate Marks in Social Sciences, Humanities, Fine Arts, Performing Arts and Communication	7.6.2012 2.00 p.m.	--
P.G. Diploma	Health Fitness & Life Style Management	30	Bachelor's degree in any subject	5.6.2012 2.00 p.m.	6.7.2012 & 7.7.2012 10.00 a.m.

- Note: 1. For calculating the prescribed percentage of marks for admission to M.A. Courses in Economics, History, Political Science, Sociology and Anthropology marks obtained in the language papers of the qualifying degree will be excluded.
2. 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.

Post-graduate courses offered by the Sarojini Naidu School of Arts and Communication

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
M.P.A.	Dance (Kuchipudi) (Bharata-natyam)	08 08	Bachelor's degree in dance; OR Bachelor's degree in any subject with a professional diploma or certificate in dance recognised by the University; OR Bachelor's degree in any subject with a certificate from a reputed Guru recognised 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. <i>(The experience/training certificate should be furnished during the practical test.)</i> OR A candidate with 10+fulltime 4 year diploma / certificate from a nationally recognized institution + 1 year practical work in the same institution; OR A candidate with 10+2+fulltime 3 year diploma from a nationally recognized institution.	2.6.2012 10.00 a.m.	6.7.2012 10.00 a.m.
M.P.A.	Theatre Arts	23	Bachelor's degree in any subject with an aptitude for theatre which will be tested at the time of viva.	1.6.2012 10.00 a.m.	6.7.2012 10.00 a.m.
M.F.A.	Painting Print making Sculpture	14 08 08	Bachelor's degree in Painting / Printmaking / Sculpture	6.6.2012 2.00 p.m.	6.7.2012 & 7.7.2012 10.00 a.m.
M.F.A.	Art History	08	BA/BFA/BVA/BPA in subjects of Arts, Humanities or Social Sciences with 55% marks. Bachelor's degree in Fine Arts, Visual Arts, Architecture, Applied are eligible to apply, with a minimum of 55% marks. Students from design, film and media studies, Performing Arts, humanities and Social Sciences will also be considered. All candidates must demonstrate adequate linguistic and interpretative skills in English and another Indian language to demonstrate conceptual thinking capacity.	5.6.2012 10.00 a.m.	8.7.2012 10.00 a.m.
M. A.	Communi-cation	40@	Bachelor's degree with at least 55% marks in Communication / Journalism; OR Bachelor's degree in any subject with at least 55% marks in aggregate. @ Communication & Media Studies 10 Print Journalism & New Media 15 Television & Radio 15	1.6.2012 10.00 a.m.	6.7.2012 to 8.7.2012 10.00 a.m.
PG Diploma	Health Commu-nication	15+5*	Bachelor's degree in any discipline with atleast 55% aggregate marks PLUS work experience of two years in a communication or a health related organization OR Master's degree in any Social Science discipline with atleast 50% aggregate	1.6.2012 2.00 p.m.	10.7.2012 10.00 a.m.

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MBA	Health Care & Hospital Management	20	Three or four year Bachelor's degree with a minimum of 60% marks or equivalent grade of any University recognized by AIU/AICTE. Preference will be given to those who have an academic background/experience relating to health care management/administration areas.	7.6.2012 2.00 p.m.	7.7.2012 & 8.7.2012 10.00 a.m.
MBA**		60	A three year Bachelor's degree (or its equivalent) in any discipline recognized by the Association of Indian Universities/AICTE, obtained before July 2012.	--	--

** The admission of candidates into MBA for the year 2012-13 has been completed based on the percentile scores of the applicants in CAT 2011 followed by Group Discussion/Interview.

M.Tech. Courses

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
M.Tech	Computer Science	45+5*	With a minimum of 60% marks in the Bachelor's degree examination in Engineering/Technology (B.E./B.Tech); OR First class in MCA or M.Sc in (Computer Science/Information Sciences/Electronics) GATE scores in Computer Science and Information Technology and in order of merit, will be the only criteria for admission. (No entrance examination or any interview will be conducted).	--	--
	Artificial Intelligence	30+5*			
	Information Technology	30+5*			
M.Tech.	Computational Techniques	15	With at least 55% marks in the Master's degree in Physics or a closely related area with at least one computer related course either in M.Sc. or more than one computer course at the B.Sc. level. Note: Valid GATE scores in the order of merit in Physics or qualified in UGC-CSIR NET for JRF will be the criterion for short listing candidates for interview. No written test will be conducted.	--	8.7.2012 10.00 a.m.
M.Tech.	IC Technology	15+8*	With at least 55% marks in the Master's degree in Electronics, or in Physics with Electronics Specialization OR B.E. / B.Tech., with a minimum of 60%, with Electronics as one of the subjects Note: Valid GATE scores in the order of merit, in one of the following: (1) Electronics and Communication Engineering (2) Instrumentation Engineering (3) Physics will be the criterion for short listing candidates for interview. No written test will be conducted.	--	9.7.2012 10.00 a.m.
M.Tech.	Bioinformatics	25	Masters degree with a minimum of 55% aggregate marks in Biological or Agricultural or Physical or Chemical sciences OR Statistics or Mathematics or computer sciences or B.Pharmacy, B.Tech with a minimum of 60% marks. Candidates will be short-listed in two categories Biotechnology and Non-Biotechnology subjects based on the GATE scores obtained in respective subjects. The admission is based on the performance of the candidates in Computer Sciences, Mathematical Sciences, Physical Sciences and Biological Sciences in a comprehensive interview.	--	8.7.2012 10.00 a.m.
M.Tech. /Adv. PG Diploma	Mineral Exploration	10+5*	With at least 55% Marks in the Masters degree in any branch of Science with Mathematics as one of the subjects at the B.Sc. level.	6.6.2012 2.00 p.m.	6.7.2012 10.00 a.m.

* Sponsored seats

M.Phil. Courses

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
M.Phil.	English	15	Master's degree in English with at least 55% marks	5.6.2012 10.00 a.m.	5.7.2012 to 8.7.2012 10.00 a.m.
M.Phil.	Philosophy	14	Master's degree in Philosophy with at least 55% marks	5.6.2012 2.00 p.m.	6.7.2012 10.00 a.m.
M.Phil.	Hindi	23	Master's degree in Hindi with at least 55% marks	5.6.2012 2.00 p.m.	6.7.2012 10.00 a.m.
M.Phil.	Telugu	20	Master's degree in Telugu with at least 55% marks	5.6.2012 2.00 p.m.	6.7.2012 10.00 a.m.
M.Phil.	Urdu	30	Master's degree in Urdu with at least 55% marks	5.6.2012 2.00 p.m.	6.7.2012 10.00 a.m.
M.Phil.	Applied Linguistics	09	Master's degree in the subject concerned (Linguistics/ Applied Linguistics) with at least 55% marks; OR Master's degree in allied subjects with at least 55% marks and a post-graduate diploma in Linguistics / Applied Linguistics or an equivalent field in Linguistics. Allied subjects include all language and literature disciplines, Philosophy, Anthropology, Sociology, Psychology, Computer Science, Mathematics, Statistics, Communication Studies, Speech and Hearing	4.6.2012 2.00 p.m.	6.7.2012 10.00 a.m.
M.Phil.	Translation Studies	09	Master's degree in any subject with a minimum of 55% marks with proficiency in two languages reflected in previous qualifying examination.	6.6.2012 10.00 a.m.	7.7.2012 10.00 a.m.
M.Phil.	Comparative Literature	08	Master's degree in Comparative Literature with at least 55% marks; OR Master's degree in any language / literature / related discipline with at least 55% marks. Whatever the M.A., the candidate must present documentary evidence of knowledge of at least two literatures / languages.	2.6.2012 2.00 p.m.	8.7.2012 10.00 a.m.
M.Phil.	English Language Studies	02	i) M.A. in English OR ii) M.A. in Linguistics OR Education OR Comparative Literature (with English as the medium of instruction) OR iii) M.Ed. (with English as the medium of instruction) - all with at least 55% marks	2.6.2012 2.00 p.m.	10.7.2012 10.00 a.m.
M.Phil.	Dalit and Adivasi Studies and Translation	06	Master's degree in Hindi with atleast 55% marks Desirable : Sound knowledge of any Indian Language.	4.6.2012 10.00 a.m.	9.7.2012 10.00 a.m.
M.Phil.	Economics	30	Master's degree in Economics, OR in any of the allied subjects with at least 55% of marks. (Allied subjects : Commerce, Statistics, Mathematics, Engineering, Management or any of the Social Science subjects)	1.6.2012 2.00 p.m.	6.7.2012 10.00 a.m.
M.Phil.	History	14	Master's degree in History with at least 55% marks or equivalent grade; OR Master's degree in allied subjects with at least 60% marks or Equivalent Grade (Allied subjects: Political Science, Public Administration, Economics, Sociology, Anthropology, Indology, Archaeology, Ancient Indian History and Culture, Literature, Religious Studies, Environmental Studies and Science Policy.)	6.6.2012 10.00 a.m.	6.7.2012 10.00 a.m.
M.Phil.	Political Science	15	Master's degree in Political Science or Public Administration or in any Social Science subjects including Humanities with at least 55% marks or Equivalent Grade	5.6.2012 2.00 p.m.	6.7.2012 10.00 a.m.
M.Phil.	Sociology	12	Master's degree in Sociology or Social Anthropology with at least 55% marks.	5.6.2012 2.00 p.m.	6.7.2012 10.00 a.m.
M.Phil.	Anthropology	08	Master's degree in Anthropology with at least 55% marks; OR Master's degree in an allied subject with at least 60% marks (Allied subjects: Sociology, Social Work, Social & Preventive Medicine, History, Political Science, Economics, Archaeology, Linguistics, Environmental Sciences and Developmental Studies including Rural and Regional Development)	5.6.2012 10.00 a.m.	8.7.2012 10.00 a.m.
M.Phil.	Regional Studies	06	M.A. degree with at least 55% marks or equivalent grade in any of the Social Science subjects.	2.6.2012 2.00 p.m.	9.7.2012 10.00 a.m.
M.Phil.	Social Excl. & Incl. Policy	12	Master's degree with at least 55% marks in any of the Social Science or Humanities subjects.	1.6.2012 10.00 a.m.	8.7.2012 10.00 a.m.
M.Phil.	Indian Diaspora	06	Master's degree in any subject in Social Sciences or Humanities with at least 55% of marks. Also should have some exposure to migration and diaspora studies either in the form of a course in Indian diaspora during their M.A. degree or have some research experience.	4.6.2012 2.00 p.m.	8.7.2012 10.00 a.m.
M.Phil.	Cognitive Science	08	Master's degree in any discipline in humanities or social or natural sciences with at least 55% marks.	1.6.2012 10.00 a.m.	9.7.2012 10.00 a.m.
M.Phil.	Gender Studies	10	Master's degree with a minimum of 55% marks in aggregate in Social Sciences , Humanities, Management, Natural sciences, Performing Arts and Communication.	6.6.2012 2.00 p.m.	10.7.2012 10.00 a.m.

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
M.Tech./ Ph.D	Materials Engineering	16	BE/B.Tech., or equivalent degree in Metallurgy, Mechanical/Production/ Manufacturing Engineering, Materials Engineering, Chemical Engineering, Ceramic Engineering/Technology, Polymer Engineering/Technology or Engineering Physics OR B.Sc. or equivalent degree with Mathematics, Physics & Chemistry followed by AMIE in Chemical Engineering, Materials & Metallurgical Engineering, Mechanical Engineering, Production Engineering or AMIIM (Metallurgical/Materials) OR Diploma in Mechanical Engineering, Metallurgical Engineering, and Production Engineering followed by AMIE in Chemical Engineering, Materials and Metallurgical Engineering, Mechanical Engineering, Production Engineering or AMIIM OR Master's degree in Physics, Chemistry, or Materials Science <i>Candidates should have at least 60% marks in the respective qualifying exam.</i>	7.6.2012 2.00 p.m.	6.7.2012 10.00 a.m.
M.Tech./ Ph.D.	Nano Science & Technology	12	B.E./B.Tech. or equivalent degree in Metallurgy, Mechanical/Production/Manufacturing Engineering, Materials Engineering, Chemical Engineering, Ceramic Engineering/ Technology, Polymer Engineering/ Technology, Nano Science and Engineering/Technology or Biotechnology or Engineering Physics OR B.Sc. or equivalent degree with Mathematics, Physics, & Chemistry followed by AMIE in Chemical Engineering, Materials & Metallurgical Engineering, Mechanical Engineering, Production Engineering or AMIIM OR Diploma in Mechanical Engineering, Metallurgical Engineering, and Production Engineering followed by AMIE in Chemical Engineering, Material and Metallurgical Engineering, Mechanical Engineering, Production Engineering or AMIIM OR Master's degree in Physics, Chemistry, Materials Science, Nano Science and Technology, Nano Science and Engineering. <i>Candidates should have atleast 60% marks in the respective qualifying exam.</i>	7.6.2012 10.00 a.m.	8.7.2012 10.00 a.m.

Ph.D. programmes

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
Ph. D.	Mathematics/ Applied Maths/	06	Master's degree in concerned or related subjects with at least 55% marks or equivalent grade	2.6.2012 2.00 p.m.	8.7.2012 10.00 a.m.
Ph.D.	Statistics/OR			1.6.2012 2.00 p.m.	2.00 p.m.
Ph. D.	Computer Science	12	Masters Degree in any Engineering/Technology; OR M.Phil. in Mathematics or Statistics or Electronics; OR Bachelor's Degree in BE/B.Tech.; OR Master's degree in Computer Applications / Computer Science / Mathematics / Statistics / Electronics / Information Systems / Internet Technology / GeoInformatics / BioInformatics with a minimum of 60% marks in the above stated qualifying degrees.	5.6.2012 10.00 a.m.	6.7.2012 & 7.7.2012 10.00 a.m.
Ph. D.	Physics	20	M.Sc. degree with at least 55% marks in Physics or a closely related area.	1.6.2012 2.00 p.m.	10.7.2012 & 11.7.2012 10.00 a.m.
Ph. D.	Chemistry	34	M.Sc OR equivalent degree with at least 55% marks with JRF/RGNF/MANF (Note: B.Tech, B.Pharm. etc., are also treated as equivalent to M.Sc for this purpose)	--	6.7.2012 To 8.7.2012 10.00 a.m.
Ph.D.	Biochemistry	06	Master's degree in Biochemistry or in a closely related area with at least 55% marks OR an M.B.B.S. degree with a minimum of 55% marks with UGC/CSIR/ICMR/JRF/RJNF/MANF.	--	7.7.2012 10.00 a.m.
Ph.D.	Plant Sciences	18	M.Sc. in Plant Sciences/Botany or in a closely related area with at least 55% marks or B.Tech. in Biotechnology/ Bioengineering; B.Pharm. etc. with a minimum of 55% marks	6.6.2012 10.00 a.m.	8.7.2012 10.00 a.m.
Ph. D.	Animal Sciences	12	Master's degree in Animal Sciences or in any area of Life Sciences with atleast 55% marks; OR M.Pharm, M.V.Sc. degree with a minimum of 55% marks.	4.6.2012 2.00 p.m.	9.7.2012 10.00 a.m.

Ph.D.	Biotechnology	13	Master's degree in Biotechnology or in a closely related area with atleast 55% marks OR an M.B.B.S., M.Tech., M.Pharm, M.V.Sc., with a minimum of 55% marks	1.6.2012 10.00 a.m.	10.7.2012 10.00 a.m.
Integrated M.Sc./ Ph.D.	Biotechnology	06	Bachelor degree in Physical and Biological Sciences, Pharmacy, Engineering/Technology, MBBS with 60% marks. Degree should be awarded within 2 years from the year of examination	1.6.2012 10.00 a.m.	11.7.2012 10.00 a.m.
Ph.D.	Medical Sciences	03	Masters degree in Biochemistry/Animal Sciences/ Biotechnology/Biosciences/ Toxicology/ Microbiology/ Life Sciences/Genetics/Medical Sciences / Pharmacology and those who have NET qualification for JRF from CSIR, UGC RGNF, MANF and ICMR, are eligible to apply.	--	9.7.2012 10.00 a.m.
Ph.D.	ACRHEM: Physics Chemistry	5 2	Same as above in the case of Ph.D. Mathematics/ Applied Maths/Statistics/OR, Computer Science; Physics; and Chemistry OR with atleast 60% marks in B.E./B.Tech. degree in an appropriate area with strong aptitude in Physics/Chemistry/Mathematics.	2.6.2012 10.00 a.m.	10.7.2012 10.00 a.m.
Ph.D.	Advanced Computational Methods	03	Minimum qualifications for admission will be as per the stipulations for the doctoral programmes by the respective Schools/Departments/Centres including the Schools of Life Sciences, Chemistry, Physics, Mathematics/Computer Science, Engineering Sciences and Technology, University Centre for Earth and Space Sciences, and Advanced Centre of Research in High Energy Materials.		6.7.2012 10.00 a.m.
Ph.D.	Cognitive Sciences	03	Master's degree in any discipline in humanities or social or natural sciences with at least 55% marks.	1.6.2012 10.00 a.m.	9.7.2012 2.00 p.m.

** Subjects concerned are: Computer Science, Animal Science, Biotechnology, Chemistry, Physics, Earth and Space Sciences, Materials Engineering and ACRHEM. Only one option of subject will be considered.

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
Ph. D.	English	05	M. Phil degree in the subject concerned and Master's degree in the subject concerned with at least 55% marks; OR Master's degree in the subject concerned with at least 55% marks with two years teaching experience in a degree college or two years of teaching/research experience in the subject concerned in a University department or a recognised institute of higher learning or qualified in UGC JRF/RGNF/MANF OR Master's degree with at least 60% marks in any subject with 2 years of teaching experience in a degree college or two years of teaching/research experience in the subject concerned or closely related area in a University department or recognized institute of higher learning or a minimum of 3 publications in a recognized refereed journal in the subject in which admission is sought.	4.6.2012 10.00 a.m.	9.7.2012 10.00 a.m.
Ph.D.	Communi- cation	04	Same as above Note: The concerned subjects are Communication or Journalism.	1.6.2012 2.00 p.m.	9.7.2012 10.00 a.m.
Ph.D.	Dance	03	M.Phil. degree in the subject concerned and Master's degree in the subject concerned with at least 55% marks ; OR Master's degree in the subject concerned with at least 55% marks with two years teaching experience in a degree college or two years of teaching/research experience in the subject concerned in a University department or a recognised institute of higher learning or qualified in UGC JRF/RGNF/MANF OR Master's degree with atleast 60% marks in any subject with 2 years of teaching experience in a degree college or two years of teaching/research experience in the subject concerned or closely related area in a University department or recognized institute of higher learning or a minimum of 3 publications in a recognized refereed journal or in reputed non-refereed journals/magazines/ websites in the subject in which admission is sought. The non-refereed publications must be from a pre-approved list prepared by the Department. Note: The concerned subjects are Dance and related areas.	2.6.2012 10.00 a.m.	7.7.2012 10.00 a.m.

Ph.D.	Theatre Arts	04	<p>Master's degree or equivalent in the subject concerned with at least 55% marks with practical experience in three major productions after the Master's programme</p> <p style="text-align: center;">OR</p> <p>Master's degree in the subject concerned with at least 55% marks with two years teaching experience in a degree college or two years of teaching/research experience in the subject concerned in a University department or a recognised institute of higher learning or qualified in UGC JRF/RGNF/MANF;</p> <p style="text-align: center;">OR</p> <p>Master's degree with at least 60% marks in any subject with 2 years of teaching experience in a degree college or two years of teaching/research experience in the subject concerned or closely related area in a University department or recognized institute of higher learning or a minimum of 3 publications in a recognized refereed journal in the subject in which admission is sought.</p> <p>Note: The concerned subjects are Theatre Arts.</p>	1.6.2012 2.00 p.m.	67.2012 2.00 p.m.
Ph. D.	Philosophy	09	<p>M. Phil degree in the subject concerned and Master's degree in the subject concerned with at least 55% marks;</p> <p style="text-align: center;">OR</p> <p>Master's degree in the subject concerned with at least 55% marks with two years teaching experience in a degree college or two years of teaching/research experience in the subject concerned in a University department or a recognised institute of higher learning or qualified in UGC National level test for JRF//RGNF/MANF or for Lectureship;</p> <p style="text-align: center;">OR</p> <p>Master's degree in any subject with atleast 60% marks with 2 years of teaching experience in a degree college or two years of teaching/research experience in the subject concerned or closely related area in a University department or recognised institute of higher learning or a minimum of 3 publications in a recognised refereed journal in the subject in which admission is sought.</p>	5.6.2012 10.00 a.m.	7.7.2012 10.00 a.m.
Ph.D	Telugu	12	Same as above	5.6.2012 10.00 a.m.	7.7.2012 10.00 a.m.
Ph. D.	Urdu	14	Same as above	2.6.2012 2.00 p.m.	7.7.2012 10.00 a.m.
Ph.D.	Hindi	14	<p>M.Phil. degree in the subject concerned and Master's degree in the subject concerned with at least 55% marks ;</p> <p style="text-align: center;">OR</p> <p>Master's degree in the subject concerned with at least 55% marks with two years teaching experience in a degree college or two years of teaching/research experience in the subject concerned in a University department or a recognised institute of higher learning or qualified in UGC National level test for JRF/RGNF/MANF</p> <p style="text-align: center;">OR</p> <p>Master's degree in any subject with 2 years of teaching experience in a degree college or two years of teaching/research experience in the subject concerned or closely related area in a University department or recognized institute of higher learning or a minimum of 3 publications in a recognized refereed Hindi journal.</p>	5.6.2012 10.00 a.m.	7.7.2012 10.00 a.m.
Ph. D.	Applied Linguistics	08	<p>M.A. in the subject concerned (with at least 55% marks) or Master's degree in allied subjects (with at least 60% marks) with M.Phil. Degree/UGC JRF/RGNF/MANF or NET qualification for Lecturership/Two years of teaching/ research experience in Linguistics/Applied Linguistics in a recognised institution of higher learning or three publications in the subject concerned in recognised and refereed journals.</p> <p>Allied subjects include all language and literature disciplines, Philosophy, Anthropology, Sociology, Psychology, Computer Science, Mathematics, Statistics, Communication Studies, Speech and Hearing.</p>	1.6.2012 2.00 p.m.	6.7.2012 2.00 p.m.
Ph. D.	Translation Studies	08	<p>M.A. in any subject (with at least 55% marks) with M.Phil. Degree/ UGC JRF/RGNF/MANF or NET qualification for Lectureship/ Two years of teaching/ research experience in language/literature/ translation/comparative literature/linguistics in a recognised institution of higher learning or three publications in the subject concerned in recognised refereed journals.</p>	4.6.2012 2.00 p.m.	7.7.2012 2.00 p.m.

Ph.D.	Comparative Literature	04	M.Phil. degree in Comparative Literature or related disciplines. OR Master's degree in the subject concerned / or related disciplines with at least 55% marks with two years of teaching experience in a degree college or two years of teaching / research experience in the subject concerned in a university department or a recognized institute of higher learning or qualified in UGC JRF/RGNF/MANF. <i>Note: The concerned subject is Comparative Literature / English / Indian Language / Literature / Liberal Arts / Social Sciences & Communication. Furthermore a candidate without any earlier Comparative Literature degree must present documentary evidence of knowledge of at least two literatures / languages. The medium of instruction is English..</i>	5.6.2012 2.00 p.m.	8.7.2012 2.00 p.m.
Ph.D.	Sanskrit Studies	03	M.A. in Sanskrit or equivalent with at least 55% marks / P.G. Diploma in Sanskrit from a recognized Institution, AND M.Phil Degree or qualified in UGC JRF/RGNF/MANF/NET/SET/SLET OR M.A. in Natural Language Processing / PG Diploma in Computational Linguistics/ PG Diploma in Linguistics/P.G. Diploma in Manuscriptology / Master's degree with at least 60% marks in any subject with 2 years of teaching experience in a degree college/Two years of teaching or research experience in the subject concerned or closely related area in a University department or recognized institute of higher learning/a minimum of 3 publications in a recognized refereed journal in the subject in which admission is sought.	6.6.2012 10.00 a.m.	10.7.2012 2.00 p.m.
Ph.D.	English Language Studies	02	i) M.Phil. degree in English OR Linguistics OR Education (with a dissertation in any area of English Language Studies written in English) OR ii) a) Master's degree in English OR b) Master's degree in Linguistics OR Education OR Comparative Literature (with English as the medium of instruction) With at least 55% marks and two years experience of teaching English in a degree college or university OR two years of research experience in any area of English Language Studies in a University department or a recognized institute of higher learning OR qualified in UGC/JRF/RGNF/MANF in English or Linguistics or Education.	2.6.2012 10.00 a.m.	10.7.2012 2.00 p.m.
Ph.D.	Dalit and Adivasi Studies and Translation	02	M. Phil degree in the subject concerned and Master's degree in the subject concerned with at least 55% marks; OR Master's degree in the subject concerned with at least 55% marks with two years teaching experience in a degree college or two years of teaching/research experience in the subject concerned in a University department or a recognised institute of higher learning or qualified in UGC National Level Test for JRF //RGNF/MANF or for Lectureship; OR Master's degree in any subject with 2 years of teaching experience in a degree college or two years of teaching/research experience in the subject concerned or closely related area in a University department or recognized institute of higher learning or a minimum of 3 publications in a recognized refereed journal in the subject in which admission is sought. Desirable : Sound knowledge of any Indian Language.	2.6.2012 10.00 a.m.	9.7.2012 2.00 p.m.
Ph.D.	Economics	23	M.A. in Economics (with at least 55% marks or Equivalent Grade) OR Masters degree in the allied subjects(Commerce, Statistics, Mathematics, Engineering and Management or any of the Social Science subjects with at least 60% marks or Equivalent Grade) And any one of the following : M.Phil. Degree/ in Economics or allied subjects as mentioned above OR UGC JRF /RGNF/MANF qualification OR Two years of teaching/ research experience in economics or allied subjects in a recognised institution of higher learning OR Three publications in the subject concerned in recognised refereed journals.	1.6.2012 2.00 p.m.	7.7.2012 10.00 a.m.

Ph. D.	History	12	M.A. in the subject concerned (with at least 55% marks) or Equivalent Grade or M.A. in allied subjects (with atleast 60% marks) or equivalent grade with M.Phil. Degree /UGC JRF /RGNF/MANF / Two years of teaching/research experience in the subject concerned in a recognised institution of higher learning or three publications in the subject concerned in recognised refereed journals. OR With at least 60% marks Or Equivalent Grade in Master's degree in any subject with two years teaching experience in a degree college in the subject concerned or a closely related area or two years teaching/research experience in the subject concerned or in a closely related area in a University Department or a recognised institute of higher learning or a minimum of three publications in recognised refereed journals in the subject in which admission is sought.	4.6.2012 10.00 a.m.	7.7.2012 10.00 a.m.
Ph. D.	Political Science	12	M.A. in the subject concerned (with at least 55% marks) or Equivalent Grade OR M.A. in allied subjects (with at least 60% marks) or Equivalent Grade with M.Phil. Degree /UGC JRF /RGNF/MANF/Two years of teaching/research experience in the subject concerned in a recognised institution of higher learning or two publications in the subject concerned in recognised journals. OR With at least 60% marks Or Equivalent Grade in Master's degree in any subject with two years teaching experience in a degree college in the subject concerned or a closely related area or two years teaching/research experience in the subject concerned or in a closely related area in a University Department or a recognised institute of higher learning or a minimum of two publications in recognised refereed journals in the subject in which admission is sought. Note: The concerned subjects are Political Science or Public Administration.	5.6.2012 10.00 a.m.	7.7.2012 10.00 a.m.
Ph. D.	Sociology	10	M. Phil degree in the subject concerned and Master's degree in the subject concerned with at least 55% marks; OR Master's degree in the subject concerned with at least 55% marks with two years teaching experience in a degree college or two years of teaching/research experience in the subject concerned in a University department or a recognised institute of higher learning or qualified in UGC National level test for JRF /RGNF/MANF Note: The concerned subjects are Sociology or Social Anthropology	6.6.2012 2.00 p.m.	7.7.2012 10.00 a.m.
Ph. D.	Anthropology	06	M.A./M.Sc in Anthropology with a minimum 55% marks OR M.A. in allied subject with at least 60% marks; AND M.Phil degree in Anthropology or allied subjects OR UGC-JRF/RGNF/MANF or equivalent qualification OR Two years of teaching/research experience in the subject concerned in a recognized institution of higher learning/degree college with three publications in recognized and referred research journals, in the subject in which admission is sought.	5.6.2012 10.00 a.m.	8.7.2012 2.00 p.m.
Ph.D.	Regional Studies	04	M.A. in any of the Social Science subjects with at least 55% marks or Equivalent Grade Or M.A. in allied subjects (with at least 60% marks) or Equivalent Grade with M.Phil. Degree in a Social Science subject/UGC JRF//RGNF/MANF Two years of teaching/ research experience in any Social Science subject in a recognised institution of higher learning or three publications in any Social Science subject in recognised refereed journals.	2.6.2012 2.00 p.m.	9.7.2012 2.00 p.m.
Ph.D	Folk Culture Studies	04	Master's degree with at least 55% marks in any of the subjects in Social Sciences, Humanities, Fine Arts, Performing Arts, and Communication with any one of the following qualifications: a) M.Phil in any of the above subjects with Folklore/Folk Culture related topic b) Qualified in UGC-NET for JRF/RGNF/MANF or for Lectureship in any of the above subjects. c) 2years teaching experience in a Degree College or equivalent experience of teaching or research in a University Department or a recognized institute of higher learning. d) A minimum of three publications in any of the above subjects in a refereed journal.	7.6.2012 10.00 a.m.	6.7.2012 10.00 a.m.
Ph.D.	Social Excl. Incl. Policy	03	M.A. in Social Sciences or Humanities subjects (with at least 55% marks) or equivalent Grade; OR M.A. in allied subjects (with at least 60% marks) or Equivalent Grade with M.Phil Degree/ UGC JRF/RGNF/MANF or NET qualification for Lecturership / Two years of teaching/research experience in the subject concerned or three publications in the recognized refereed journals in the subject in which admission is sought.	6.6.2012 10.00 a.m.	9.7.2012 10.00 a.m.
Ph.D.	Indian Diaspora	04	M.Phil degree in any subject in Social Sciences or Humanities and a Master's degree with at least 55% marks OR two years teaching experience in a degree college OR two years of teaching/research experience in the subject in migration and diaspora studies in a recognized institute of higher learning and/or research or qualified in UGC National level test for JRF/RGNF/MANF. Also should have some exposure to migration and diaspora studies either in the form of a course in Indian diaspora during their M.A. degree or have some research experience.	7.6.2012 10.00 a.m.	8.7.2012 2.00 p.m.

Ph.D.	Science, Technology, and Society Studies	02	<p>An M.Phil degree in the area of social studies of science from the following disciplines: Sociology, Political Science, History, Economics, Anthropology and Philosophy.</p> <p style="text-align: center;">Or</p> <p>i) M.Sc. degree in any branch of science or B.E/ B.Tech degree in any branch of Engineering with 60 per cent marks; and ii) a published research paper in a peer reviewed journal in any area of social studies of science, technology and innovation to be submitted along with the application form.</p> <p style="text-align: center;">Or</p> <p>i). M.A. degree in any discipline of the social sciences or philosophy with 55 per cent marks; or M.Sc. Degree in any branch of science or B.E./B.Tech in any branch of engineering with 60 per cent marks; ii) at least three years of work experience in an industry/research organization; and iii) a sample of written work of 2000 words or a published research paper in a peer reviewed journal in any area of social studies of science, technology and innovation to be submitted along with the application form.</p> <p style="text-align: center;">Or</p> <p>i) UGC-CSIR JRF/RGNF/MANF holders in any of the social science disciplines mentioned above, and Philosophy with 55 per cent marks in their M.A. degree. UGC-CSIR JRF holders in any discipline of sciences or GATE-qualified with a score above 85 percentile in any discipline of Engineering with 60 per cent in their M.Sc. degree in sciences or BE/B.Tech degree in Engineering; and ii) a sample of written work of 2000 words or a published research paper in a peer reviewed journal in any area of social studies of science, technology and innovation to be submitted along with the application form.</p>	7.6.2012 10.00 a.m.	9.7.2012 10.00 a.m.
Ph.D.	Gandhian Economic Thought	02	<p>Postgraduate degree in any subject (with atleast 55% marks or Equivalent Grade points), AND any one of the following :</p> <p>M.Phil. (in any subject); OR</p> <p>UGC-JRF/RGNF/MANF qualification; OR</p> <p>three publications in recognized refereed journals OR 2 years teaching / research / administrative experience in a recognized institution of higher learning.</p>	7.6.2012 2.00 p.m.	10.7.2012 10.00 a.m.

Ph.D.	Human Rights	02	<p>M.A. with 55% marks in any branch of Social Sciences OR 60% marks in allied subjects (Philosophy, Psychology, Management, Education and Literature) with M.Phil. degree/ UGC JRF/RGNF/MANF /two years teaching/research experience in the subject concerned in a recognized institute of higher learning or two publications in the subject concerned in recognized journals OR candidates with any branch of science with 60% marks in Masters degree with proven interest in Human Rights will also be considered (in the form of publications, research reports etc.)</p>	2.6.2012 10.00 a.m.	9.7.2012 10.00 a.m.
Ph.D	Management Studies	12	<p>With at least 55% marks in Master's degree or its equivalent in Management or Commerce or Accounting (MBA, M.Com, C.A, ICWA)</p>	5.6.2012 2.00 p.m.	6.7.2012 10.00 a.m.
Ph.D.	Psychology	07	<p>Qualification in UGC JRF/RGNF/MANF exam in Psychology or Post Graduation Degree in Psychology with atleast 55% marks</p>	4.6.2012 10.00 a.m.	8.7.2012 10.00 a.m.
Ph.D.	Earth and Space Sciences	06	<p>Master's degree in Earth / Ocean / Atmospheric Sciences, Remote Sensing, Environmental Sciences, Water Resources or a closely related area with atleast 55% marks</p>	4.6.2012 2.00 p.m.	7.7.2012 2.00 p.m.
Ph.D.	Materials Engineering	08 Regular 06 External	<p>M.E./M.Tech. or equivalent Master's degree in Metallurgy, Mechanical (Production or Manufacturing Engineering), Materials Engineering, Chemical Engineering, Ceramic Engineering/ Technology, Polymer Engineering/ Technology or Engineering Physics OR Master's degree in Physics/Chemistry / Materials Science or Bachelor's degree in Engineering/Technology in any of the above disciplines.</p> <p><i>Candidates should have at least 60% marks in the respective qualifying exam.</i></p>	7.6.2012 2.00 p.m.	7.7.2012 10.00 a.m.
Ph.D.	Nano Science & Technology	4 Regular 4 External	<p>M.E./M.Tech. or equivalent Master's degree in Metallurgy, Mechanical (Production /Manufacturing Engineering), Materials Engineering, Chemical Engineering, Ceramic Engineering/ Technology, Polymer Engineering/ Technology, Nano Science and Technology, Nano Science and Engineering, Bio-Technology, or Engineering Physics OR Master's degree in Physics/Chemistry/ Materials Science, or M.Sc. in Nano Science, or Bachelor's degree in Engineering/Technology in any of the above disciplines.</p> <p><i>Candidates should have at least 60% marks in the respective qualifying examinations.</i></p>	7.6.2012 10.00 a.m.	9.7.2012 10.00 a.m.

Ph.D.	Gender Studies	08	An M.A., MBA or M.Sc. in Social Sciences, Humanities, Performing Arts, Communication, Management and the Natural Sciences, with at least 55% marks, or an equivalent grade with any one of the following qualifications : 1. M.Phil degree in any of the above subjects with women's issue or gender related topics. 2. UGC JRF /RGNF/MANF or NET qualification for lecturership 3. Two years of teaching/research experience in a recognized institution of higher learning 4. Minimum of three publications in a recognized, refereed Journal.	4.6.2012 2.00 p.m.	10.7.2012 2.00 p.m.
Ph.D.	Buddhist Studies	Upto 4	With atleast 60% marks in M.A. in i) Buddhist Studies OR ii) M.A. in Pali Language & Literature OR iii) M.A. in Humanities/Social Sciences with atleast one paper in Buddhism OR a candidate must have passed UGC JRF/RGNF/MANF /NET in (a) Buddhist Studies (UGC subject code 60); or (b) Pali (UGC subject Code 83). In case of an applicant with a foreign Master's Degree in the above areas must have proven proficiency in English in the above subject with atleast one paper in Buddhism.	2.6.2012 2.00 p.m.	6.7.2012 10.00 a.m.

- Note:**
1. The approved intake for Ph.D. is expected to be filled over four sessions in July 2012, October, 2012, January 2013 and April 2013. Therefore, all the seats need not necessarily be filled in July 2012 alone.
 2. Candidates possessing M.Phil. or M.Tech. or UGC-NET for lecturership alone should also appear for the written test as they are not exempted from written test for admission to Ph.D. programmes.

SCHOOLS OF STUDIES

School of Mathematics and Computer / Information Sciences

The School offers facilities for intensive training and research in the basic areas of Mathematics (including Applied Mathematics), Statistics, Operations Research and Computer and Information Sciences. The School has two constituent departments, namely:

- 1) Department of Mathematics & Statistics
- 2) Department of Computer and Information Sciences

Prof. T. Amaranath, Dept. of Mathematics and Statistics is the Dean of the School.

Department of Mathematics & Statistics

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

The Department offers research facilities in the following areas:

- Algebra, Analysis (Complex Analysis, Functional Analysis, Global Analysis), Algebraic Geometry, Topology, Algebraic Number Theory, Dynamical Systems.
- Fluid Mechanics.
- Statistical Inference, Outliers, Regression Diagnostics, Order Statistics, Reliability, Operations Research.

Programmes of Study

The Department offers 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 Department offers **Ph.D.** programmes in Mathematics, Applied Mathematics, Statistics and Operations Research. Admission to the Ph.D. Programme is open to both M.Phil. and M.Sc. Students. Students admitted to this programme are required to pass a few courses recommended by the Department in the first year and have to face a comprehensive viva at the end of the 1st year. Only those candidates who qualify in the viva are eligible to continue their registration in the Ph.D. programme of the Department. They are also expected to take part in the weekly Colloquium / Seminar of the School.

Entrance Examination

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

Admission to **M.Sc. (Maths/Applied Maths and Statistics-OR)** is based on a written test followed by an interview. The written test consists of objective type questions only.

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, vector spaces, matrices, determinants, linear transformations, rank, nullity, eigen values, system of linear equations, elementary probability and logical reasoning.

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.

The admission will be made separately for M.Sc. Mathematics (including Mathematics and Applied Mathematics) and M.Sc. Statistics-Operations Research. At the end of the first year, the students of M.Sc. Mathematics will be given the option to choose either Mathematics or Applied Mathematics.

Note: Change of option between Mathematics and Statistics-OR is not allowed.

There will be separate entrance tests for programmes in Ph.D Mathematics (including Applied Mathematics) and Statistics/Operation Research.

Only those who qualify on the basis of their performance in the written examination will be called for interview.

Those candidates who have a UGC-CSIR/NBHM fellowship are exempted for the written exam, but have to appear for the interview. These candidates will be given a weightage of 40 marks out of 75 in lieu of the written exam. A majority of questions in the written test for admission to **Ph.D. Programme (Mathematics, Applied Mathematics)** will be at the level of M.Sc. in the areas: Real Analysis, Complex Analysis, Algebra, Linear Algebra, Topology, Functional Analysis, Ordinary and Partial differential equations, Calculus of Variations, Classical Mechanics, Numerical Analysis.

For **Ph.D. (Statistics/OR)** the questions will be at the level of M.Sc. in the areas: Probability theory, Statistical Inference, Sampling techniques, Stochastic Processes, Linear Models, Design & Analysis of experiments, Multivariate analysis, Linear Programming, Combinational Optimization.

The questions need not only be of the objective type and may require writing out answers. Credit will be given more

to the understanding of concepts rather than to mechanical proofs of the results.

For a **Ph.D** in **OR**, a person may appear for the admission test either in Applied Mathematics or Statistics/OR.

Infrastructure facilities

The Department has good computing facilities. There are four labs. A Statistics lab with 15 PCs and 2 UGC (SAP) labs with 25 Pentium –IV and another Lab with 10 Pentium IV.

These labs have licensed versions of Mathematica, SPSS 17.0 and SYSTAT 12 along with other open source software such as Maxima, Octave, R, etc.

The University Library has been recognized as a Regional Library by the National Board for Higher Mathematics (NBHM).

Faculty

Professors

R.Tandon, Ph.D.(Yale) - Algebraic Number Theory, Cryptology

T. Amaranath, Ph.D. (I.I.T.Madras) F.N.A.Sc. - Fluid Mechanics (**Dean of the School**)

V. Suresh, Ph.D. (TIFR, Mumbai) F.A.Sc., F.N.A., F.N.A.Sc. – Algebra & Algebraic Geometry (on leave till 30.5.2013)

Mirza Iftexhar Beg, Ph.D. (AMU) - Order Statistics

S. Kumaresan, Ph.D. (TIFR, Mumbai) – Differential Geometry, Analysis, Pedagogy (**Head of the Department**)

B.Sri Padmavati, Ph.D. (Hyderabad) - Fluid Dynamics

V.Kannan, Ph.D.(Madurai) F.A.Sc., F.N.A. - Topology and Analysis (**Re-employed**)

Associate Professors

R. Radha, Ph.D. (IIT, Bombay) – Fluid Dynamics

G. Lakshma Reddy, Ph.D. (Madras) – Complex Analysis and Applications

B. Shobha, Ph.D. (IIT, Delhi) – Statistical Inference and Reliability

M. Sumanth Datt, Ph.D. (Hyderabad) – Hopf Algebras, Algebraic Groups

Assistant Professors

Saroj Panigrahi, Ph.D. (Berhampur) – Differential Equations (on leave till 11.09.2012)

Vishnu Namboothiri K, Ph.D. (Hyderabad) – Algebraic Number Theory (on leave till 03.08.2012)

T.K.S. Moothathu, Ph.D. (Hyderabad) – Topological Dynamics

Sudheesh Kumar Kattumannil, Ph.D. (Cochin) Reliability (on leave till 22.12.2012)

T. Suman Kumar, Ph.D. (Universite Pierre et Marie Curie) Nonlinear population dynamics, Hyperbolic PDE.

Honorary Professor

M.S.Raghunathan, F.R.S. – Lie groups and algebraic groups

Manjul Bhargava, Ph.D. (Princeton University, USA) - Algebraic Number Theory

Dr. Homi J. Bhabha Chair Professor

B.L.S. Prakasa Rao, Ph.D. (MSU, USA) F.A.Sc., F.N.A., F.N.A.Sc. – Probability, Inference & Stochastic Processes

Adjunct Professor

Prof.R.Parimala, Ph.D (TIFR, Mumbai) (Emory University, USA) – Arithmetic -Algebraic Geometry, Quadratic Forms

Department of Computer and Information Sciences

The Department of Computer and Information Sciences offers high quality postgraduate teaching and research programmes in all major areas of Computing, Information Science and Artificial Intelligence. The department is unique in offering M.Tech. Programmes (with GATE fellowships) in Artificial Intelligence (since 1987), and in Information Technology with specialization in Banking Technology and Information Security (since 2001). The research areas of faculty include Computer Networks and Distributed Processing, Database Management Systems, Software Engineering, Computer and Network Security, Mobile Computing, Logic, Cryptography, Network Forensics, Geographical Information Systems, Data Warehousing and Data Mining, Bioinformatics, Artificial Intelligence, Machine Learning, Cognition, Natural Language Engineering, Speech Processing, Image

Processing, Pattern Recognition, Vision, Parallel & Grid Computing.

Department of Science and Technology (DST), Government of India has recognized the research contributions of the department by funding it under FIST programme. University grants commission (UGC) has sanctioned a Special Assistance Program (SAP), at the level of Departmental Research support (DRS) - Phase I, to enhance teaching and research programmes in department.

The Department maintains active contact with both industry and research labs and participates in developing state-of-art computing systems. The department has initiated academic collaboration at an international level with United Nations University/International Institute of Software Technology, Macau, University of Trento, Italy and Mahasarakham University, Thailand. The Department has MoUs for collaborative work with NISG (National Institute for Smart Government), Anna University, IBM (ISTL), Sierra Atlantic and Altair Engineering to promote research and teaching programme in Business Process Re-engineering and Middleware Technology.

The Department currently executes several research projects (funded by MIT, UGC, ISRO, DRDO, DLRL, MHA, DST, INCOIS etc.) on 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 and Grid Middleware etc.

Ph.D. students may have opportunity to work at University of Trento, Italy, National University of Singapore, Freie University, Berlin etc. As the department has a high priority for research, it strongly encourages students to participate in the above exciting research programmes as full-time Ph.D. students.

GATE fellowships are offered to eligible M.Tech. students by the UGC/AICTE as per their norms.

A department orientation programme will be conducted on the first day of the semester for all the new students of M.C.A and M.Tech. programmes. The Elective Orientation & Elective Registration will be conducted on the following day.

Programmes of Study

The Department offers four different programmes of study leading to **M.C.A.**, **M.Tech.** (Computer Science), **M.Tech.** (Artificial Intelligence), **M.Tech.** (Information Technology) with specialization in Banking Technology & Information Security, in collaboration with IDRBT and **Ph.D.** in Computer Science.

In addition, the department also contributes and supports the **M.Tech.** (Computational Techniques) of Schools of Physics and MCIS, **M.Tech.** (Bioinformatics) of School of Life Sciences, M.A. and M.Sc. (5-year Integrated) courses and Center for Neural & Cognitive Science.

In all the courses, classroom teaching is supplemented with seminars, term papers, minor projects and assignments.

M.C.A. 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. The training is rigorous and involves five semesters of course work and one semester of project work. Students through a selection process are offered internships at companies such as IBM, GE, Microsoft, CA, CMC, Honeywell etc thus being provided an opportunity to learn in industry environment during their last semester.

Master of Technology (M.Tech.) Programme is meant for graduates in engineering disciplines and meant for postgraduates in related sciences. This is a four-semester programme with two semesters of course work and two semesters of project work. The first semester constitutes major core courses of that stream and many state-of-art electives are offered during both first and second semesters. The projects offered by faculty provide an opportunity for students to work on real world research problems.

M.Tech. (Computer Science) Programme offer core courses of computer science like Operating Systems, Computer Architecture, Algorithms and Software Engineering at an advanced level. Specialized electives of faculty research interest are offered as electives. The course work develops scientific and mathematical approach to computing.

M.Tech. (Artificial Intelligence) Programme is meant for students already well equipped in computing sciences and imparts advanced training in all the major areas of artificial intelligence and other emerging technologies, such as Human Computer Interaction, Machine Learning and Computational Intelligence etc. The projects are offered in major areas of artificial intelligence.

M.Tech. (Information Technology) Programme with specialization in Banking Technology and Information Security aims at imparting in-depth knowledge and state-of-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 financial-banking sector.

The general information on admission of sponsored candidates and foreign nationals in M.Tech. is as follows:

Sponsored candidates: Five sponsored seats are available for admission into each stream of M.Tech. (CS, AI and IT). 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 Organisations can apply for admission in M.Tech. (CS/AI). 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) 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 department. 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.

Foreign candidates: Foreign nationals seeking admission to M.Tech. programmes should have the required 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/ELT at the time of admission. In addition, students should submit a letter of reference which supports their claims to the background, capabilities and ability to communicate in English.

Note: Sponsored and foreign candidates seeking admission in the **M.Tech.** (CS/AI/IT) programmes are exempted from the **GATE** qualification.

Ph.D. programme is offered on full time, part time* and external registration basis as per the university regulations. The department has a very vibrant Ph.D programme with more than 70 students registered currently. Interested candidates are advised to study the areas of research from the department and faculty profiles.

*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 subject to the availability of seats under this category.

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 following guidelines are stipulated:

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

Entrance examination

M.C.A. Program. Admission is based on a written test conducted by the University. The written test consists of objective type questions in two parts with equal weightage. Part 'A' deals with general mental ability (consisting of items on reasoning, analysis, comprehension and synthesis). Part 'B' deals with mathematical topics such as Sets, Relations, Integration, Differentiation, Analytical Geometry, Trigonometry, Vectors, Matrices, Determinants, Differential Equations, Elementary Probability and Statistics, Number Systems, Data Representation, Algorithms and Flowcharts. Part A and Part B are for 50 marks each for a total of 100 marks. Part A consists of 25 objective type questions each for 2 marks. Part B consists of 50 objective type questions each for one mark.

Admission will be done by counseling.

M.Tech. Programmes. Admission to programmes in *Computer Science, Artificial Intelligence* and *Information Technology* courses is based on only GATE scores in Computer Science and Information Technology. **No entrance examination or any interviews will be conducted. GATE scores, in order of merit, will be the basis for admission which done by counseling.**

Students should indicate their preference for the choice of program (whether CS/AI/IT) in the application form. Request for change of option will not be entertained during counseling. Admission and tuition fees for all the three M.Tech. programmes are uniform. Sliding from one branch to another may be allowed subject to availability only upto 1st August 2012.

Ph.D. Programme. Admission is based on a written test with objective type questions, short answer questions, descriptive questions and technical comprehension. The written test covers the areas of Computer Organization,

Computer Programming, Discrete Mathematics, Data Structures, Algorithms, Operating Systems, Database Management Systems, Graph Theory, Computer Networks and Automata. The written test consists of Part A for 40 marks and Part B for 35 marks for a total of 75 marks. The number of candidates called for interview is four times the available seats. Candidates must indicate their research interest. Candidates having UGC-CSIR JRF are eligible to appear directly for interview. They will be given a weightage of 40 marks in lieu of written test for 75 marks. However to gain more than the minimum marks they are strongly advised to appear for the written test.

At the time of interview all candidates must come prepared with a tentative research plan write-up of maximum size of 4 pages and are encouraged to submit details of research papers/technical reports they have authored.

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

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

1. All candidates admitted to PhD in the department, whether full time, part time or external, are required to pass a comprehensive examination within a period of One (1) year from the date of admission. Initial admission is provisional and the continuation of the registration is subject to candidate passing the comprehensive examination. In case a candidate is unable to pass the comprehensive exam within One year and One month, his/her admission stands automatically cancelled.
2. The comprehensive exam will be a written examination and will consist of four papers (2 core papers and 2 elective papers), to be decided by the Doctoral Research Committees of the candidates concerned.
3. Passing the comprehensive examination means passing each of the papers with a minimum of 50% mark.
4. We are conducting exam for two core subjects during November /December in the first semester and for two

elective subjects during April/May in the second semester.

Candidates are advised to write and clear two exams at a time, eg: Core and electives.

5. Students can take supplementary examination at the end of the academic year for the course(s) he/she has failed. Supplementary examination will be conducted once in a year during July/August of every year. The result of the supplementary will be notified by last working day of August.

On successful completion of the four papers, the candidate will be allowed to continue the registration for Ph.D.

Infrastructural facilities

The facilities at the Department include a variety of computing machines such as SUN Workstations, Multi-Core Processor based Multi-Media personal computers with high resolution graphics cards, network support and cluster systems all equipped with the latest software packages. Image processing equipment such as flat-bed scanners, 20" high-resolution monitors, CCD-Cameras are also available to students.

Under DST-FIST programme and PURSE grants, the department hosts the following labs: Software Engineering lab, Spoken Language Processing lab, Network & Security Systems lab, Embedded Systems lab, Computer Vision and Image Processing lab and Data & Network Forensic lab. It also hosts a resource center for Telugu Language funded by MCIT, Govt. of India.

These facilities are also continually augmented through funded research projects as well as industrial consultancy projects. Apart from the departmental facilities, there is also a well-equipped University Computer Centre and state-of-the-art high performance computing facilities at CMSD.

Faculty

Professors

Arun Kumar Pujari, Ph.D. (I.I.T.Kanpur) - Combinatorial Algorithms, Data Mining, Artificial Intelligence.

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.

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

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

P.N. Girija, Ph.D. (SVU) - Speech Recognition, Speech Synthesis, Human Computer Interaction (**Head of the Department**)

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

Chakravarthy Bhagvati, Ph.D. (RPI, USA) - Image Processing, Computer Vision, Pattern Recognition

Bapi Raju Surampudi, Ph.D. (UTA, USA) - Neural Networks, Cognitive Modeling, Pattern Recognition, Machine Learning

Associate Professors

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

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

S. Durga Bhavani, Ph.D. (University of Hyderabad) - Analysis of Algorithms, Fractal Geometry, Mathematical Modeling

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

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

Assistant Professors

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

K. Swarupa Rani, MCA(SKU), M.Phil(CS) - Incremental Mining, Time-Variant Databases, Text Mining

Y.V. Subba Rao, M.Tech. (ISI, Kolkata) - Cryptography, Theory of Computation, DBMS, Data Forensics

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

P. Anupama, M.S. (UMBC, USA) - Networking, Systems Security, Operating Systems

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

PSVS Sai Prasad, M.Tech. (Sri Satya Sai University, Prasanthi Nilayam) - Data Mining, Rough Sets, Unix and Network Programming (Study Leave)

Rajendra Prasad Lal, M.Tech. (Computer Applications, IIT-Delhi) - Graph Algorithms, Mathematical Programming, Computational Geometry

N. Rukma Rekha, M.Tech. (Andhra University) - Object Oriented Analysis and Design, UML, Cryptography, Pervasive Computing, Software Engineering

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

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

Faculty of IDRBT

V.N. Sastry, Ph.D. (IIT, Kharagpur) - Networks, Multiple Criteria Optimization, Risk Modeling, Fuzzy Control.

V. Radha, Ph.D (University of Hyderabad) - Computer Applications, Multimedia, Databases and Internet.

M.V. Sivakumaran, MBA (IGNOU) - Customer Relationship Management, Internet and Intranet Technology, Total Branch Automation Packages.

Mahil Carr, Ph.D. (University of Hong Kong) - Software Engineering, Programming Languages, Research Methodology.

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

Vadlamani Ravi, Ph.D. (Osmania University) - Fuzzy Optimization & Fuzzy Rule based classification models and applications.

B. M. Mehtre, Information Security, Biometrics, Pattern Recognition, Image Processing

G. R. Gangadharan, Internet Technologies, Information and Communication .

Jitendra Kumar, Time Series, Design of Experiment, Business Process Reengineering

Rajarshi Pal, Visual Attention, Image Watermarking, Steganography, Video Summarization

Shakti Mishra, Distributed Computing, Formal Methods

Visiting Professors

Andre Rossi, Université de Bretagne Sud, France.

Raj Kumar Buyya, University of Melbourne, Australia.

Vivek Sarkar, Rice University, USA.

N S Choudhari, IIT Indore.

Chatrakul Sombattheera, Mahasarakham University, Thailand.

Richard Booth, University of Collective Reasoning, Luxembourg.

Sheela Ramanna, University of Winnipeg, Canada.

James F. Peters, University of Manitoba, Canada.

School of Physics

The School of Physics is a centre of excellence for multi-disciplinary and interfacial research and teaching in diverse fields ranging from nanosciences to cosmology, photonics to spintronics, quantum computing to complex systems and biology. The School has been selected by the UGC as the Centre of Advanced Study (CAS) to strengthen its teaching and research programs. The School of Physics has been chosen for level II funding under the FIST scheme of DST in a nation wide competition. The DST recognized the School as one of the five founding centers in the country for the Theoretical Physics Seminar Circuit (TPSC). The School has been recognized as a ‘Centre for Excellence’ by the Third World Academy of Sciences, Trieste, Italy.

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

The School has vigorous research programs to train Ph.D. scholars and has achieved national and international recognition in the areas of condensed matter physics, high energy physics, non-linear optics, quantum optics and laser physics, materials science, nanosciences and electronics science. The areas of research include high T_c superconductivity, magnetism, phase transitions, critical phenomena, glasses and ceramics, liquid crystals, thin films, ion-solid interactions, semiconductors and super lattices, nanostructured materials, low-dimensional systems, localization, percolation, molecular dynamics, neural networks, quantum field theory, quantum chromo dynamics, CP violation, heavy quarks, non-linear dynamics, quantum computing, stochastic-quantization, modern quantum optics including Femto second laser experiments and theory, VLSI and Signal processing, ferroelectrics and microwave devices.

Prof. C. Bansal is the Dean of the School.

Programs of Study

The School offers M.Sc. (5-year Integrated) Physics, M.Sc. (Physics), M. Tech. in Computational Techniques,

M. Tech. in Integrated Circuits Technology and Ph.D. in Physics.

M.Sc. (5-year Integrated) (Physics): This program is of five years (10 semesters) duration. The courses taken by the students during the first six semesters are Mechanics and Properties of Matter, Kinetic Theory and Thermodynamics, Waves and Optics, Electromagnetic Theory and Modern Physics and Atomic / Molecular Physics. Emphasis is on tutorials and problem solving.

M. Sc. (Physics): This program is of four semesters duration. The first three semesters cover the fundamentals of the subject. The courses taken by all the students include Classical Mechanics, Quantum Mechanics, Mathematical Methods, Nuclear Physics, Introductory Particle Physics, Solid State Physics, Laser Physics, Computer Applications, Electronics, Electrodynamics, Statistical Mechanics, besides laboratory courses in Electronics, Solid State Physics, Digital Electronics, Lasers, Microwaves, Modern Physics and Nuclear Physics. There is a strong emphasis on problem solving and learning experimental techniques.

During the fourth semester, students may opt for one of the following specializations:

- a) Particle Physics and Field Theory
- b) Condensed Matter Physics
- c) Laser Physics and Modern Optics

In addition, a student can opt for a course of 100 maximum marks among the current topics run in any interdisciplinary subject/department of the University. Each student also has to do a project work of 6 credits in the fourth semester.

M. Tech. in Computational Techniques: This is a four semester program open to students with Master’s degree in Physics or related areas. The objective of this program is to train physicists in modern areas of computational techniques suitable for solving physics problems using simulation methods. The first two semesters involve formal instructions, while the third and fourth semesters are devoted to project work. The subjects covered include:

numerical techniques, mathematical methods, computer organization, data structures, programming methodology, Monte Carlo techniques and molecular dynamics. The second semester offers four electives to be chosen from: evolutionary computing, disorder, wavelet transforms, quantum computing, cellular automata, direct discrete methods, file structures, image processing, pattern recognition, speech recognition, algorithms and computer graphics. This program is being offered with the participation of the Department of Computer and Information Sciences of the University.

The project work in the third and fourth semesters may be carried out in School of Physics or Department of Computer and Information Sciences, or other recognized R & D centers in Hyderabad.

M. Tech. (Integrated Circuits Technology): This is a four semester program with two semesters of course work and two semesters of project work. The program is designed to impart broad based knowledge in Integrated Circuit Technology. All cutting edge technology aspects involving design techniques, fabrication techniques, numerical techniques required in the field of I.C. Technology will be covered. The curriculum involves theory courses covering semiconductor physics, digital systems design, special IC design (such as DSP), rf/microwave IC's, IC fabrication techniques, MEMS, nano-devices, integrated optics and computer simulation techniques. The curriculum also includes laboratory courses covering all the above subjects. In addition to existing Faculty, experts in this area from Government and private laboratories / industries will be participating in this program, both in teaching as well as in the project work.

Admissions to M. Tech. (IC Technology) program is also open to sponsored candidates from DRDO, ISRO, DAE, CSIR, and to ISO certified organizations as per the rules laid down by the University of Hyderabad for sponsored candidates in M. Tech. programs. The academic qualifications for sponsored candidates would be the same as that of regular candidates but the requirement for valid GATE scores would be waived for the sponsored candidates. Up to 8 candidates can be admitted in this

category. The sponsored candidates would be allowed to do their project work in their parent organizations.

Ph.D. All students admitted into the Ph. D. program are required to undergo course work. Satisfactory completion of course work with at least 50% marks is a prerequisite for confirmation of Ph. D registration. This is a research program with students undertaking research under the supervision of a Faculty member, on a topic approved by the School. The student is required to show satisfactory progress throughout the period of research as well as fulfill other requirements prescribed by the School. The Ph.D. requirements include prescribed course work and submission of research results in the form of a thesis, two research papers in journals and defense of the thesis in a viva voce.

Entrance Examination

The written test for **M.Sc. (Physics)** will mainly be in Physics (mechanics, general properties of matter, kinematics, 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). Short listed candidates from among those who qualify in the written test have to appear for an interview.

Admission to **Ph. D.** in Physics will be based on a written test and interview. The material covered in the written test will be based on typical M. Sc. syllabus of Indian Universities i.e. 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. The written test will be followed by an interview for the short listed candidates.

Candidates who have qualified for UGC-JRF can appear for interview without appearing in the written test if they so desire. They would be awarded 40 marks in lieu of the written test.

Infrastructural facilities

Materials preparation and characterization facilities including nanocluster deposition systems, pulsed laser deposition system, Nano Indenter, C- V & I- V measurement system, Wafer inspection microscope, Rheometer, Micro-Raman Spectrometer, Scanning Probe Microscope, crystal growth equipment, cutting and surface polishing equipment, high vacuum coating machine, RF sputtering units, arc-melting furnace and RF induction furnace, temperature controlled ovens, continuous flow cryostat and electronic equipment for measurement of electrical and thermal transport properties, facilities to investigate field cycling NMR spectrometer, pulsed NMR, simultaneous measurement of electro optic and dielectric properties, vibrating sample magnetometer, closed cycle helium refrigerator, INEL X-ray diffractometer with wide angle position sensitive detector, atomic force microscope, vector network analyzer, Laser spectroscopy using pulsed Nd-YAG high power helium-neon and nitrogen lasers, dye laser and Femto second laser facilities, CW tunable Ar ion laser, ESR, NMR, Mossbauer and laser Raman spectrometer, Liquid Helium plant, Carl Zeiss Field Emission Scanning Electron Microscope, and X-ray reflectometry system are some of the facilities available in the School of Physics. Varieties of EDA tools (complete VLSI tools from FPGA implementation, PCB layout design tools) are also available. Microfabrication facilities, including mask aligner, scribe, wire bonder, profiler, spin coater, have been set up. Electron Microscope, Physical Properties Measurement System & Magnetic Properties Measurement System are available in the Centre for Nanotechnology.

The School attracts substantial funding from agencies such as UGC, CSIR, DST, DAE, DRDO, ISRO and DOE for research work.

Computer facilities

A number of PCs are networked through LAN with the Computer Centre so that internet and E-Mail facilities are directly accessible from laboratories and Faculty offices. The school has a teaching laboratory with 20 terminals connected to an IBM server.

CMSD/HPCF computer facility is used for simulation work.

Faculty

Professors

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

V. S. S. Sastry, Ph.D. (I. I. Sc., Bangalore) - Condensed Matter Physics, Magnetic Resonance, Computer Simulations (E)

A. K. Kapoor, Ph.D. (I.I.T. Kanpur) - Elementary Particles, Quantum Field Theory, Path Integrals (T)

Vipin Srivastava, Ph.D. (Roorkee) - Condensed Matter Physics, Neural Networks, Brain Function Modeling (T)

C. Bansal, Ph.D. (TIFR, Bombay) - Condensed Matter Physics, Phase Transformations, Mossbauer Spectroscopy, Nanomaterials and Devices (E) (**Dean of the School**)

S. P. Tewari, Ph.D. (Delhi) - Quantum Optics, Nonlinear Optics (T)

S. Chaturvedi, Ph.D. (Waikato, NZ) F.A.Sc., F.N.A.Sc. – Space Quantum Field Theory, Stochastic Processes, Non-Equilibrium Phenomena (T)

C. S. Sunandana, Ph.D. (I.I.T. Madras) - Condensed Matter Physics (E)

Rajender Singh, Ph.D. (Delhi) - Condensed Matter Physics, Ultrasonics, Superconductivity and Magnetism (E)

S. Dutta Gupta, Ph.D. (Moscow) - Nonlinear Optics (T)

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

Bindu A. Bambah, Ph.D. (Chicago) – Particle Physics, Non Linear Dynamics (T)

V. Seshu Bai, Ph.D. (I.I.T. Madras) - Condensed Matter Physics, Magnetism and Superconductivity (E)

Ashok Chatterjee, Ph.D. (IACS, Jadavpur) - Condensed Matter Physics (T)

M. Sivakumar, Ph.D. (Madras) - Quantum Field Theory (T)

G. Rajaram, Ph.D. (TIFR, Bombay) - Condensed Matter Physics, Magnetism and Superconductivity, Device Fabrication.

K. P. N. Murthy, Ph.D. (UoH, Hyderabad) Equilibrium and non-Equilibrium Statistical Physics, Monte Carlo Simulation (T)

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

Readers

P. Anantha Lakshmi, Ph.D. (UoH, Hyderabad) - Quantum Optics (T)

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

K. C. James Raju, Ph.D. (IIT, Madras) - Microwave Electronics, Ferroelectric thin films, RF MEMS, Microwave materials and characterization techniques (E)

M. Ghanashyam Krishna, Ph.D. (IISc, Bangalore) – Nanostructured Materials, Thin Films and Sensors (E)

Janaki Balakrishnan, Ph.D. (Delhi) – Dynamical systems, stochastic processes, problems motivated by biology, quantum field theory (T)

Nirmal K. Viswanathan, Ph.D. (UoH, Hyderabad) – Photonics Devices – Fiber optic devices, Polymer optic devices – Optical interferometry (E)

Rukmani Mohanta, Ph.D. (Utkal) - High Energy Physics (T)

Samrat L. Sabat, Ph.D. (Berhampur) – Embedded Systems, Digital Signal Processing (E & T)

Surajit Dhara, Ph.D. (RRI Bangalore) – Liquid Crystals (E & 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)

S. V. S. Nageswara Rao, Ph.D. (UoH, Hyderabad) – Condensed Matter Physics: Ion-solid interactions and Ion-beam based materials science (E)

Assistant Professors

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

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

Guest Faculty

P. A. Govindacharyulu, Ph.D. (I. I. Sc.) – Semiconductor Device Physics, IC Technologies. Professor, ECE Department., Vasavi Engineering College, Hyderabad.

K. Venu, Ph. D. (UoH, Hyderabad)- Magnetic Resonance, Electronics, VLSI design and fabrication

Distinguished Faculty

A. K. Bhatnagar, Ph.D. (Maryland) – Materials Science (E) – INSA Senior Scientist

A. P. Pathak, Ph.D. (I.I.T. Kanpur), F.N.A.Sc., F.Inst.P. (London), C.Phys. - Atomic Collisions in Solids, Radiation Damage, Surface Physics, Superlattices & Heterostructures (T & E) – BSR Fellow of UGC

Honorary Professors

Professor Horst Hahn, Director, Institute of Nanotechnology, Karlsruhe, Germany

Professor T. V. Ramakrishnan, FRS, DAE Homi Bhabha Professor, BHU

School of Chemistry

School of Chemistry is a dynamic centre for research in the frontier areas of chemical sciences. The emphasis at the curricular level is to give a broad coverage of all branches of chemistry in keeping with the interdisciplinary nature of the subject today.

The School of Chemistry has made notable impact on the chemical research scene and is widely acclaimed at the national and international levels. The School receives support from a large number of research grants from funding agencies like Department of Science and Technology (DST) and Council of Scientific and Industrial Research (CSIR), international collaborative projects and industrial projects. The School has been identified by DST for support under the new FIST programme at Level II. UGC has selected the School of Chemistry as a Centre for Advanced Studies under Special Assistance Programme. DST has awarded a special one time research grant to the school during the International Year of Chemistry (2011).

A networking Resource Centre in Chemistry funded by the UGC is functioning in the school. The centre supports short term visits by about 50 teachers, research scholars and students (M.Sc. and B.Sc.) from other Universities and Colleges. Further information and details of the program can be obtained from the school website.

The School website can be reached at <http://202.41.85.161/> or <http://chemistry.uohyd.ernet.in>

Prof. M.V.Rajasekharan is the **Dean of the School**.

Programmes of study

The School admits students to the **M.Sc.** and **Ph.D.** Programmes.

The 2-year **M.Sc.** programme lays equal emphasis on Organic, Inorganic and Physical Chemistry. The **M.Sc.** programme lasting four semesters comprises 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 is reviewed and upgraded regularly paying special attention to the contemporary development in Chemical Sciences. Some of the unique features of the programme are the core courses in Instrumentation and Computer Applications, Mathematics for Chemists, Materials Chemistry, Biological Chemistry, elective courses and project work in final

semester. The student completing the M.Sc. is proficient in all branches of Chemistry and is equipped to take up research in a variety of specialized fields including those areas where Chemistry intersects with Biology on the one hand and Physics on the other.

The School is actively involved in the M.Sc. (5-year Integrated) course run by the Centre for Integrated Studies.

The **Ph.D.** programme is entirely research-oriented in which a student undertakes research under the guidance of the Faculty of the School in an area chosen by him/her and approved by the School. The specific research areas of the individual Faculty members are mentioned against their names. Students admitted to the Ph.D. programme are required to satisfactorily complete a course work within the first four semesters; the modules consists of core course in research methodology and optional courses chosen on the basis of their background and the requirements of their research. Candidates who have passed the **NET** of the **CSIR/UGC** with a **JRF** qualification may apply for admission at any time of the year. However, admission will be based on the interviews to be conducted three times in a year i.e. October, January and April in addition to the July session.

Infrastructure facilities

The School is well equipped with a wide range of sophisticated analytical equipment such as infrared and UV-visible spectrometers, spectrofluorimeters, single photon counting spectrofluorimeter, GC-MS and LC-MS chromatographic systems, CHNS elemental analyzer, polarimeter, electrochemistry equipment, isothermal titration calorimeter, high sensitivity differential scanning calorimeter laser flash photolysis setup, atomic force microscope, dynamic light scattering apparatus, confocal Raman microscope, fluorescence lifetime imaging microscope and small/wide angle x-ray diffractometer. The NMR facility in the School consists of 200, 400 and 500 MHz spectrometers. A X/Q-band EPR spectrometer with low temperature accessories is also available. The single crystal X-ray diffractometer facility consists of two CCD detector based diffractometers and a powder x-ray diffractometer with variable temperature accessories. The School also uses the facilities at the Central Instrumentation Laboratory, (X-band ESR spectrometer,

circular dichroism spectrometer, scanning electron microscope, differential scanning calorimeter, vibrating sample magnetometer) and Centre for Nanotechnology (transmission electron microscope, rapid thermal annealing and scanning near field optical microscope). The School has ample computing facility consisting of a large number of workstations and personal computers; the state-of-the-art high performance computing facility available at the Centre for Modeling, Simulation and Design is also extensively used by the School. The internet and email facility provided by the University is effectively utilized by the School for scientific correspondence work. Access to most of the important journals is available online.

Entrance Examinations

The admission to **M.Sc.** is based on the performance of the candidates in the written test. The written test for admission to the **M.Sc.** degree course consists of objective type questions. Candidates are expected to have sound knowledge of **B.Sc.** level general Chemistry and basic Mathematics. The question paper for the test consists of two parts. **Part I** carries 25 marks and **Part II** carries 75 marks. The paper consists of multiple choice questions and wrong answers carry negative marks.

The admission to **Ph.D.** is confined to the awardees of Junior Research Fellowships (JRF) from various government agencies and the shortlisted candidates will be required to appear for an interview.

Faculty

Professors

Kalidas Sen, Ph.D. (IIT, Kanpur) – Confined quantum systems, Eigenspectral, information theoretical and complexity studies

M. Periasamy, Ph.D. (IISc, Bangalore), F.A.Sc., F.N.A. – Organic Chemistry, Organometallics and Chiral Reagents, Renewable energy sources

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

M.V. Rajasekharan, Ph.D. (IIT, Madras) – Inorganic Chemistry (**Dean of the School**)

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

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

Ashwini Nangia, Ph.D. (Yale), F.A.Sc., F.N.A.Sc., F.N.A. – Supramolecular Chemistry, Crystal Engineering, Cocrystals and Polymorphism

K.C. Kumara Swamy, Ph.D. (IISc, Bangalore) F.A.Sc., F.N.A. - Organophosphorus Chemistry, Main Group Chemistry

Anunay Samanta, Ph.D. (Jadavpur) F.A.Sc., F.N.A.Sc. F.N.A. - Physical Chemistry, Photochemistry, Fluorescence Spectroscopy, Time-resolved Spectroscopy

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

Musti J. Swamy, Ph.D. (IISc, Bangalore) F.A.Sc., F.N.A.Sc. – Biophysical Chemistry

Susanta Mahapatra, Ph.D. (IIT, Kanpur) – Theoretical Chemical Dynamics, Non-adiabatic Chemistry (Professor – ACRHEM)

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

Samar Kumar Das, Ph.D. (IIT, Kanpur), F.A.Sc. – Inorganic and Supramolecular Chemistry

Associate Professors

K. Lalitha Guruprasad, Ph.D. (Osmania) – Structural Biology

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

D.B. Ramachary, Ph.D. (IISc, Bangalore) – Synthetic Organic Chemistry, Engineering Asymmetric Organocatalysis, Theoretical Aspects of Organocatalysis and engineering multi-catalysis cascade (MCC) reactions

R. Nagarajan, Ph.D. (Madras) – Organic Chemistry: Heterocycles Chemistry

Assistant Professors

Pradeepta Kumar Panda, Ph.D. (IISc, Bangalore) – Synthesis and Exploration of Chemical, Material and Biological Aspects of Porphyrinoids.

Rangarajan Balamurugan, Ph.D. (IIT, Kanpur) – Synthetic Organic Chemistry, Development of Inhibitors for Biological Functions

K. Muralidharan, Ph.D. (IIT, Kanpur) – Synthetic Main Group Chemistry, Polymers and Nano materials

Viswanathan Baskar, Ph.D. (IIT, Kanpur) – Clusters: Main group, Transition and Lanthanides

P. Ramu Sridhar, Ph.D. (IISc, Bangalore) – Synthetic Carbohydrate Chemistry

Akhil Kumar Sahoo, Ph.D. (NCL, Pune) – Organic Chemistry, Material/Medicinal Chemistry, Organometallic Chemistry

R. Chandrasekhar, Ph.D. (Max-Planck) - Nano Materials Chemistry

School of Life Sciences

The School of Life Sciences has been established with an emphasis on interdisciplinary teaching and research in modern biology.

The School consists of four departments:

1. Department of Biochemistry
2. Department of Plant Sciences
3. Department of Animal Sciences
4. Department of Biotechnology

M.Sc. (5-year Integrated) course in Systems Biology is offered at the school level with the participation of faculty from all the departments of the School of Life Sciences as well as faculty from School of Mathematics and Computer Information Sciences, School of Chemistry and School of Physics. The first two years of the programme is coordinated by the Centre for Integrated Studies and the next 3 years by the School of Life Sciences. The School participates in a P.G. Diploma programme in “Medicinal Botany” offered by the Centre for Distance and Virtual Learning. The other academic programmes offered by the School are given under the respective departmental profiles.

The School has established the following Centres for teaching and research:

1. UoH-DBT Centre for Research and Education in Biology and Biotechnology (CREBB)

The Centre has been established in 2007 with financial support from the Department of Biotechnology. The activities of this centre include teaching, research and training in diverse areas of Biology and Biotechnology by establishing state-of-the-art teaching and research labs. One of the major objectives of the Centre is also to significantly increase the number of M.Sc., Ph.D. and Post-doctoral researchers over a period of 5 years.

Prof. A.S. Raghavendra is the **Principal Investigator** of UoH-DBT-CREBB and **Prof. S. Dayananda** is the **Co-PI**.

2. UGC-SAP Centre for Advanced Studies

The University Grants Commission has accorded the status of “**Centre for Advanced Studies**” to the School of Life Sciences for a period of 5 years from 2008. The thrust areas identified under this programme are Bioresources, Novel Biomolecules and Functional Genomics.

Prof. A.S. Raghavendra is the Programme Co-ordinator and Prof. Manjula Sritharan is the Dy. Coordinator.

3. The Department of Science and Technology has granted assistance under the FIST programme to Department of Biochemistry (Level-I), Department of Plant Sciences (Level – II) & Department of Animal Sciences (Level –I).

Prof. M. Ramanadham, Dept. of Biochemistry is the **Dean of the School**.

Department of Biochemistry

Programmes of Study: The Department offers a 2-year (4-Semester) M.Sc in Biochemistry and a Ph.D programme in Biochemistry. In addition, the faculty participates in the teaching of the M.Sc. (5-year Integrated) programme in Systems Biology.

The **M.Sc. Programme** is envisaged and emphasized as the foundation and most important for understanding the various processes of living organisms or biological systems at the cellular and molecular level. The course is offered to students with a B.Sc. qualification with a minimum of 60% marks in the aggregate of Science subjects with Chemistry or Biochemistry as one of the subjects. As Biochemistry played a crucial role in developing methods that are important in medicine, agriculture and biotechnology, the course offers a good amount of training in experimental skills to students to eventually pursue a career in both basic and applied aspects of biology. The following courses are offered for the two year or four semester M.Sc programme in Biochemistry. All core courses are three credits (3 hrs/week) and electives are 2 credits in nature. **Semester I:** Biophysical Chemistry, Intermediary Metabolism I, Genetics, Microbiology, and two lab courses: Computational Biology (2 credits) and *Biochemical*

Techniques -I(4 credits). **Semester II:** Intermediary Metabolism II, Enzymology, Molecular Biology-I, Structural Biology and a lab course on *Biochemical Techniques* II (6 credits). **Semester III:** Basic immunology, Molecular Biology-II, Bioenergetics and Biomembranes, two electives (any from School of Life Sciences) and *Biochemical Techniques-III* (5 credits). **Semester IV:** Nutritional and Clinical Biochemistry, two electives (any from School of life sciences), lab course (3 credits) and a Project work of 8 credits. The following electives are offered by the Dept Biochemistry: Endocrine biochemistry, Immunochemistry, Epigenetics, Protein phosphorylation and signal transduction, and Protein-DNA interactions. The admission of students to the **M.Sc.** course is based on a written test consists of 100 objective type questions of B.Sc. standard. The questions are drawn from Biochemistry, Chemistry and other areas of Biology including Biophysics.

The admission of the students to the M.Sc. course is based on a written test consists of 100 objective type questions of B.Sc. standard. The questions are drawn from Biochemistry, Chemistry, and other areas of Biology including Biophysics.

The admission of students to the **Ph.D programme** is based on the performance in an interview conducted by the Department for those applicants who are qualified for a Junior Research Fellowship (JRF) at the National Level conducted by the CSIR, ICMR, UGC etc. At present, the Department carries out research in the areas of Gene Expression, DNA-repair, Telomere Biology, Cellular Signalling, Survival and Death; Immunology, Molecular Biophysics, Bioenergetics, Protein Biochemistry, Molecular Virology, Molecular Genetics, and Modelling.

Funding, Research and Infrastructural Facilities: The Departmental faculty is engaged in highly active and productive research in several frontier areas of modern biology. You may please visit the section of the faculty of Biochemistry and their specializations. The faculty conducts their research with support from several National and International funding agencies in the form of research grants. The Department has also been supported by a grant

from the Department of Science and Technology (DST), New-Delhi, to strengthen the postgraduate teaching and research in the Department under the 'FIST' programme for a period of 5-years (2008.-2013). In addition, the Department has been receiving grants from the Center For Advanced Studies – a status sanctioned to the combined School of Life Sciences (UGC-SAP-CAS-I) for a period of five years (2008-2013) by UGC, New-Delhi; infrastructure grant from the University of Hyderabad-DBT- Center for Research and Education in Biology and Biotechnology (UOH-DBT-CREBB) sanctioned by the Department of Biotechnology, New-Delhi, and a special PURSE grant given to the University of Hyderabad by the Department of Science and Technology, New-Delhi for a period of 5-years.

The faculty of the Department of Biochemistry have on an average of 4-5 years of post doctoral research experience in the most prestigious Universities and institutes from abroad such as Max Planck, MIT, NIH, University of Albany, University of Goettingen, Johns Hopkins, University of Pennsylvania, MD Anderson Cancer Center, Univ of Geneva and Washington, Harvard Medical School etc., prior to joining the Dept. The faculty have been publishing their work in long standing core journals of Biochemistry and Biophysics and also in other areas like Genetics, Cell Biology, and Glycobiology of International repute which include JBC, Biochemistry, BBRC, Genetics, Apoptosis, Arch Biochem Biophys, J. Bacteriology, Glycoconjugate, Mol Cell Biology and Science. The School in general and the Department in particular have many advanced facilities such as platforms for Proteomics, Metabolomics, and Genomics; high speed and ultra centrifuges, several deep freezers, CO₂ incubators, Fluorescence and Confocal microscopy, Bioplex, Spectrophotometers, HPLC and other facilities.

Faculty:

Professors

T. Suryanarayana, Ph.D. (BHU) FAS-AP: Ribosome structure and Function, Structural and Functional aspects of DNA-Protein Interactions.

C. K. Mitra, Ph.D. (TIFR): Electrochemistry of immobilized enzymes (Biosensors), Studies on proteins and nucleic acids (Bioinformatics) and Nanobiotechnology.

M. Ramanadham, Ph.D. (Osmania): Cellular immunology, Mechanism of B-lymphocyte activation, Studies on multiple myeloma and immunotoxicity of nanoparticles (**Dean of the School**).

Kolluru. V. A. Ramaiah, Ph.D (JNU) FNASc, FAS-AP: Gene Expression: Regulation of protein synthesis in eukaryotes, Cellular signalling mechanisms, ER (Endoplasmic reticulum) stress, Cell survival and death.

O. H. Setty, Ph.D. (Delhi Univ): Bioenergetics, Clinical Biochemistry, Role of free radicals in diseases and Anti-oxidant properties of plant extracts (**Head of the Department**).

N. Sivakumar, Ph.D. (Mysore) FAS-AP: Protein Biochemistry, Cell and Molecular Biology, Glycobiology, Structure and function of lectins, Evolution of Mannose 6-phosphate receptors and Lysosomal targeting proteins (**Coordinating of Indo-German Research Training Group (IRTG) on Molecular and Cellular Glycosciences**)

Readers

Mrinal Kanti Bhattacharyya, Ph.D (TIFR): DNA-Repair, Recombination, Gene silencing, Telomere biology, Malarial parasite functional genomics and epigenomics.

Naresh Babu V Sepuri, Ph.D. (University of Hyderabad): Mitochondrial biogenesis in health and disease, Protein and tRNA import into mitochondria. Role of mitochondria in cancer cells.

Krishnaveni Mishra, Ph.D. (JNU): Functional organization of eukaryotic nucleus, Telomere biology, Epigenetics and Gene silencing.

Sharmistha Banerjee, Ph.D. (Univeristy of Hyderabad): Molecular Biology and Immunology, Molecular pathogenesis of *Mycobacterium tuberculosis* and HIV coinfections.

Lecturers

Bramanandam Manavathi, Ph.D. (SKU): Signal Transduction and Molecular and cellular oncology/ Cancer Biology.

Ravi K. Gutti, Ph.D. (IARI) - Stem Cell Biology, Oncology, Signal transduction, Epigenetics, Gene regulatory mechanisms in reproduction, Apoptosis, Molecular and translational medicine

Seema Misra, Ph.D (JNU): Molecular Biology, Bioinformatics and Computational Biology.

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

Department of Plant Sciences

The Department has been supported under UGC Centre for Advanced Studies in Life Sciences, the DST-Funds for Infrastructure in Science and Technology (FIST) Level-II and DBT under UoH-DBT-CREBB programme. The foundations for the rapid growth of the Department in the last fifteen years have been laid with its philosophy to provide a well-balanced training to the students in modern Plant Sciences & Microbiology to enable them to choose careers in both advanced teaching and high quality research. The Department offers two master's programmes i.e., Plant Biology & Biotechnology, and Molecular Microbiology, and an independent Ph.D. programme.

The Department has set up State-of-the-art laboratories for M.Sc. teaching with the DBT support. Under DST-FIST II, the Department procured Electrophoretic equipment for DGGE, French Press, Fermentor, Incubator Shaker, Advanced Gel Documentation System, real time-PCR, PAM Fluorimeter etc. to strengthen teaching and research activities of the Department, while few more are being added.

All national and international funding agencies like DBT, MNES, CSIR, DST, INSA, UGC, NATP-ICAR, DAE, DOD, IAR, MoES, 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 are supporting the research activities of the Department.

The individual research laboratories are well equipped, apart from the availability of major equipment in central facilities of the Department, sister Departments in the School, and also at Central Instrumentation Lab of the University. The Faculty from the Department of Plant Sciences have the track record of consciously publishing in journals of repute like Nature, Plant Physiology, Trends in

Plant Sciences, Plant Cell, Plant Cell and Environment, Molecular Breeding, Genes and development, TAG, MGG, Phytopathology, Molecular Plant Microbe Interactions, Plant Molecular Biology, Plant Cell Physiology, BBRC, Molecular Genetics and Genomics, International Journal of Systematic and Evolutionary Microbiology, Phytochemistry etc.

The Department is supported by DST-FIST programme at level-II.

Programmes of Study

1. M.Sc. Plant Biology & Biotechnology: The course is a four semester programme that is evaluated based on credit system. A total of 11 core courses, four elective courses, three practical courses and a project have to be completed successfully by the students in the four semesters.

Course Content

Cell & Molecular Biology * Macromolecular Structure & Function * Genetics * Microbiology * Environmental Biotechnology * Molecular Biology & Genetic Engineering * Molecular Plant Pathology * Plant Biochemistry * *In vitro* Plant Biology * Genomics & Proteomics * Plant Physiology * Plant Systematics * Natural Plant Products * Phytotechnologies * Plant Developmental Biology * Plant Biotechnology * Biodiversity * Medicinal Botany * Phytomedicine * Microbial Technology

2. M.Sc. Molecular Microbiology: The course is a four semester programme that is evaluated based on credit system. A total of 11 core courses, four elective courses, three practical courses and a project have to be completed successfully by the students in the four semesters.

Course Content

Cell & Molecular Biology * Macromolecular Structure & Function * Genetics * Microbiology * Molecular Biology & Genetic Engineering * Molecular Plant Pathology * Microbial Physiology & Biochemistry * Enzymology * Molecular Virology * Genomics & Proteomics * Bioprocess Engineering & Technology * Viral Pathogenesis * Microbial Genetics * Basic Immunology * Antibiotics & Chemotherapy * Microbial Metabolomics *

Microbial Ecology * Microbial Technology * Prokaryotic Systematics.

3. Ph.D. Plant Sciences: The Ph.D. programme requires a minimum of 2 years pursuance from the date of confirmation of admission. At the end of I semester, the Ph.D. students would take examination for three theory and one lab courses (Scientific Writing, Research Methodology, and Biostatistics Techniques) for a total of 16 credits. The requirement for the award of Ph.D. includes the submission of a thesis on an approved topic of research under the guidance of a Faculty member. The scholar presents the research work in a comprehensive seminar before the submission of the thesis and faces an oral examination in defence of the thesis. The average time required for Ph.D. is about 4 years.

Entrance Examination

4. M.Sc. Plant Biology & 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 is applicable for wrong answers.**

5. 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 is applicable for wrong answers.**

6. Ph.D. Plant Sciences admissions will be based on an entrance examination and an interview conducted by the Department. The question paper will consist of 75 objective type questions of M.Sc. standard and all to be answered. Broadly, the questions will be from the areas of Plant Biology, General Biology, Microbiology, Molecular Biology, Genetics and Biochemistry. Negative marking is applicable for wrong answers. The ICMR, DBT, ICAR, CSIR-UGC JRF candidates can directly appear for

interview without taking the entrance examination as per the guidelines of the University.

Course work for Ph.D.

There will be course work for Ph.D. scholars that is mandatory. The course work will comprise of theory sessions in Research Methodology, Scientific Writing and Biostatistics offered by the four departments of the School of Life Sciences. In addition, the candidates will be evaluated for lab course on bioanalytical techniques.

Infrastructural facilities

The Faculty and students of the Department have access to a range of sophisticated equipment dealing with diverse research topics. These include Ultra-centrifuge, High Speed Centrifuge, Infra-red gas analyzer, Atomic Absorption Spectrophotometer, HPLC, lyophilizer, PCR machine, UV-VIS-NIR spectrophotometer, Liquid scintillation counter, Laser scanner, Gel documentation system, Transilluminators, Inverted Microscope, electroporator, internet, green house and Amersham DNA sequencer (megabase), 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. The Department is adding more infrastructural facilities under the newly granted FIST Level II programme.

University's Central facilities include Confocal Microscope, Scanning Electron Microscope, Peptide Sequencer etc. In addition, the individual Faculty members have their own well equipped laboratories, computers and access to internet.

Faculty

Professors

R.P. Sharma, Ph.D. (JNU) – Plant Molecular Physiology and Developmental Biology

A.S. Raghavendra, Ph.D. (SVU), FNA, FASc, FNASc, FNAAS, FTWAS, JC Bose Fellow – Plant Biochemistry & Plant Molecular Physiology: Photosynthesis, Signal Transduction, Medicinal Plants

M.N.V. Prasad, Ph.D. (Lucknow), FLS (London), FNIE, D.Sc. (h.c.; Colombo) – Environmental Biotechnology, Plant Ecophysiology, Heavy Metal Stress in Plants, Bioresource Technology, Medicinal Plants

P.B. Kirti, Ph.D. (Andhra), FNAAS, FNASc, FAP-AS – Plant Molecular Biology, Plant Genetic Engineering

Appa Rao Podile, Ph.D. (SPU), FNASc, FNAMS, FAP-AS, FPSI– Molecular Plant Microbe Interactions

Attipalli R. Reddy, Ph.D. (SVU), FAP-AS – Climate Change and Photosynthesis, Biofuels (**Head of the Department**)

Kottapalli Seshagirirao, M. Phil. & Ph.D., F.R.A.S. – Plant Systematics, Biodiversity & Conservation, Protein Biochemistry, Glycobiology, Botanical Sanskrit, Telugu & Latin, Indian Medicine, Medicinal & Pharmaceutical Botany.

Ch. Venkata Ramana, Ph.D. (Osmania) – Bacterial systematics and Metabolomics

Readers

G. Padmaja, Ph.D. (Osmania) – Plant Genetics, Plant Tissue Culture and Genetic transformation

Sarada Devi, T. Ph.D. (UH) – Molecular basis for Phytomedicine – Prevention of Human Cardio Vascular Inflammation

Gopinath Kodetham, Ph.D. (SVU) – Plant Molecular Virology, Trafficking & Viral Vectors

Ragiba Makandar, Ph.D. (IARI) – Plant Molecular Genetics, Host-Pathogen Interactions, Functional Genomics & Genetic Engineering

S. Rajagopal, Ph.D. (SVU) - Plant Biochemistry, Proteomics, Bioenergy, Protein-drug interactions and Molecular dynamics

Lecturers

Irfan A. Ghazi, Ph.D. (Hamdard University) – Functional Genomics, Disease Resistance in Rice, Medicinal Plants

Y. Sreelakshmi, Ph.D. (UH) – Functional Genomics, Plant development

Department of Animal Sciences

The Department of Animal Sciences, established in 1993 is under the umbrella of the School of Life Sciences for academic and administrative purposes. The Department offers **M.Sc.** in Animal Biotechnology and imparts, in addition to the structured four-semester theoretical courses, hands-on training for the students of the course in state-of-art laboratory facilities. The department has an active **Ph.D.** program with a current enrolment of 58 students.

The Department has a strong research program with infrastructural support from the Department of Science and Technology under Funds for Infrastructure in Science and Technology (FIST) program (awarded for the second time to the department) and under the UGC-CAS (Centre for

Advanced Studies) program for the School of Life Sciences. The Department possesses reputed faculty who have independent funding from various National (DST, DBT, CSIR, UGC, ICMR, DRDO) and International Funding Agencies and Biotechnology industries. In recognition of the department's contribution to research in biotechnology, Shantha Biotechnics, a premier biotech industry in Hyderabad offers Shantha Research Fellowship to one **Ph.D.** student each year.

Programs of study

M. Sc Animal Biotechnology: The curriculum of the course is a perfect mix of basic and modern aspects of Animal Biotechnology. The course syllabus is tailor-made to train the next generation scientists to pursue research in various aspects of the discipline. The four-semester program contains core courses in first two semesters and applied subjects in the third and fourth semesters. The elective courses, offered in the third and fourth semesters include Infection Biology, Aquaculture, Cancer Biology, Nutraceuticals & Pharmaceutical Applications, Cellular & Molecular Neurosciences, Blood cell development & disease, Vaccinology, Epigenetics & Nuclear Dynamics, Oxidative Stress and Antioxidants in Health & Disease etc. The students are required to take a total of 4 electives, with the freedom to opt for electives offered by other departments of the School. Modular practical courses conducted in the DBT-CREBB funded state-of-art laboratories make the Department of Animal Sciences an academic hub for pursuing teaching and research in various aspects of Animal Biotechnology. The project work, done in the third and fourth semesters for a total period of one year expose students to problem-oriented research work in a well-equipped lab under the supervision of a faculty.

Doctoral Program in Animal Sciences: The program requires the registration of the student under a faculty and is for a minimum of two years upon admission to the program. The program consists of compulsory course work in the first two semesters and a final submission of a thesis based on the experimental work done under an approved topic. Yearly presentation of the work completed is monitored by a Doctoral Committee consisting of three

members, including the **Ph.D.** supervisor. The total duration of the entire program is approximately 4 - 5 years.

Entrance Examination

M.Sc Animal Biotechnology: An entrance examination is conducted for the selection of candidates to the program. The entrance examination consists of 100 compulsory objective questions of B.Sc. standard, covering all aspects of Zoology, Botany, Chemistry, Biochemistry, Microbiology, Genetics, Molecular Biology and Biotechnology.

Ph.D. program: An entrance examination is conducted for the initial screening, which is followed by an interview. Candidates qualified for JRF of CSIR-UGC /ICMR /DBT are exempted from the written test and are allowed to appear for the interview. The entrance examination consists of 75 compulsory objective questions of M.Sc. standard with emphasis in Animal Biotechnology, Cell Biology, Molecular Biology, Genetics, Cancer biology, Immunology, Biochemistry, Physiology, Infection biology, Neurobiology, Endocrinology, Reproductive biology, Developmental biology, Microbiology.

Infrastructural facilities

State-of-art facilities are available for the students in the Department of Animal Sciences and School of Life Sciences. The funding for the facilities has been through National funding for common programs like DBT-CREBB (DBT funded Centre for Teaching and Research in Biology and Biotechnology) and UGC-CAS (UGC funded Centre for Advanced Studies), in addition to several individual faculty projects. The Proteomics, Genomics and Metabolomics facilities in the School of Life Sciences include 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. The other common facilities include high speed refrigerated centrifuges, ultracentrifuges, flow cytometer, spectrofluorometer, spectrophotometers, gel documentation system, phosphor-imager, HPLC, PCR machine, liquid scintillation counters, luminometer, oxygraph, bioreactors, French press,

lyophilisers etc. In addition, the students 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, Confocal microscope etc.

The Departmental instrument facility includes fluorescence activated cell sorter (FACS, under DST-FIST program) flow cytometer, HPLC, gel documentation, PCR machines etc in addition to equipments within the supervisor's laboratories. The Department also has cell culture, mosquito breeding, insect breeding and pathogen containment facilities. The Department has state-of-art laboratories (DBT-CREBB) for hands-on training for M. Sc students which are carefully planned into defined modules comprising of techniques in biochemistry, genetics, microbiology, protein purification, histology, genetic engineering, bioinformatics, immunology and mammalian cell culture.

Faculty

Professors

Aparna Dutta Gupta, Ph.D., (BHU) FNA, FASc, FNASc, FAP-AS – Molecular Physiology and Biotechnology, Biointensive-integrated insect pest management.

P. Reddanna, Ph.D (SVU) – Biochemical Toxicology and Drug Discovery: Eicosanoids, Inflammation, and Cancer (On leave as OSD of National Institute of Animal Biotechnology, Hyderabad).

S. Dayananda, Ph.D., (SVU) FAP-AS, FNASc – Molecular evolution, Horizontal Gene transfer, Catabolomics, Metabolic Engineering, Biotransformation and Biodegradation.

Manjula Sritharan, Ph.D. (Univ. of Hull, U.K.) – Infection Biology, Host-pathogen interactions in tuberculosis and leptospirosis, Molecular Diagnostics (**Head of the Department**).

Balasubramanian Senthilkumaran, M.Phil. Ph.D., (BHU) – Fish Molecular Endocrinology, Molecular Reproductive Biology, Neuroendocrinology and Molecular mechanisms of sex differentiation in fish.

Jagan Pongubala, Ph.D. (Univ. of Bombay), Molecular Genetics of hematopoietic lineage development and disease.

Associate Professors

Anita Jagota, Ph.D. (JNU) – Neurobiology, Neurodegeneration, Brain Aging, Neuro-pharmacology, Molecular Chronobiology, Cellular and Molecular

Mechanisms underlying postembryonic Neural development.

Readers

Sreenivasulu Kurukuti, Ph. D (BHU) - Higher order chromatin, Epigenetic gene regulation, Structural and functional organization of mammalian cell nucleus, Stem cell biology.

Assistant Professors

Suresh Yenugu, Ph.D. (OU) - Reproductive immunology and toxicity, polyunsaturated fatty acids and prostaglandins in *Diabetes mellitus*.

Kota Arun Kumar, Ph.D. (UH) – Biology of Malaria, Sporozoites and Liver stages, Mechanism of Immunity & Infection.

Radheshyam Maurya, Ph.D. (BHU) - Parasite and host-macrophage Interactions, Macrophage defense mechanism, Modulation of T-cell Immune Response, Induction of functionally distinct T-cell subsets, Role of Regulatory T cells in Human Visceral Leishmaniasis (VL).

M.K.Aruna Sree, Ph.D. (UH)-Protein interactions of histone deacetylases, multi-drug resistance in bacteria and cancer.

Bindu Madhava Reddy Aramati, Ph.D. (UH) – Cell signaling, gene regulation related to specific disorders.

Joint faculty

Professor

P. Prakash Babu, Ph.D (UH) – Neurochemistry, Cerebral ischemia (stroke), Stem cell therapy, Cerebral malaria, Glioma and Meningioma, Cell death - apoptosis/necrosis (**Dept. of Biotechnology**).

Department of Biotechnology

The Department of Biotechnology offers application oriented and most-sought after courses in Biotechnology and Bioinformatics. Innovation based training will be imparted to the students with a special emphasis on understanding the basic concepts of biological processes in pursuing research in frontier areas of biotechnology and bioinformatics. At present, the Department carries out research in the frontier areas of neurobiology, immunology, virology, biophysics, molecular biology, and functional genomics. The specific research interests of our faculty members are: behavioral neurobiology, neurodegenerative diseases, biophysics, molecular therapeutics, molecular aspects of neurochemistry, chaperone functions, adaptation of chronic pathogens (plasmodium), functional genomics, stem cell therapy and cancer, immunobiology of HIV, HCV, dengue and chikungunya viruses, and innate antiviral immunity.

The programmes of the Department are supported by special grants from the Department of Biotechnology towards M.Sc. Biotechnology, UGC for M.Tech.

Bioinformatics under Innovation program and Bioinformatics Infrastructure facility (BIF).

Programmes of Study:

1. M.Sc Biotechnology: This course was introduced in the year 1990 under the nation wide post graduate program by the Department of Biotechnology, Govt of India. This course is a four semester program with credit system of evaluation. The program consists of DBT recommended syllabi, and the course structure may change from time to time at the recommendations of the DBT. The current syllabus is available at http://dbtindia.nic.in/uniquepage.asp?id_pk=666

Industrial visits: Students will be visiting biotech industries to learn various aspects of product development.

2. M. Tech Bioinformatics (Sponsored by the UGC under Innovative program and approved by AICTE): M.Tech Bioinformatics is a state-of-art course, designed to train students in theory and techniques in genomics, proteomics, and computer aided modeling and drug design, including hands-on practice using statistical packages. The student has obtained attractive placements from reputed software and bioinformatics companies. The course is offered jointly by four Schools of the University viz., the School of Life Sciences, School of Chemistry, School of Physics and School of Mathematics & Computer Information Sciences, and the Centre for DNA Fingerprinting and Diagnostics (CDFD), Hyderabad.

Course Coordinating Committee:

Prof. M. I. Beg - Order Statistics (Department of Mathematics and Statistics, MCIS).

Dr. K. Lalitha Guru Prasad – Structural Biology (School of Chemistry)

Dr. P. Anantha Lakshmi – Quantum Optics (School of Physics)

Dr. T. Sobha Rani - Bioinformatics, Machine Learning Techniques, Language Processors (Department of Computer and Information Sciences, MCIS).

The course structure includes Computational Techniques, Proteomics, Basic Statistics, Basic Mathematics and Introduction to Molecular Modeling in the First semester; Genomics, Databases, Bioinformatics, Introduction to Molecular Mechanics in the Second semester, and Drug Design and Advanced Bioinformatics in the third semester. Students are encouraged to choose one elective course in second and third semesters from other Schools. The students will carry out a project work during 3rd & 4th semesters under the guidance of a faculty member either at University of Hyderabad or CDFD.

The programme also offers remedial courses in the first semester to bring all the new students, who may not have sufficient experience with computers or biology, to a common level.

3. Integrated M.Sc/Ph.D. Biotechnology: This is a 4 years extendable upto a maximum of 6 years course. Initial 2 years students will be involved in an extensive course

work, which required to be completed by end of 2 years before continuation for the Ph.D. degree. Student who could not secure adequate credits and must have completed 86 credits may be opted to exit the course with degree in M.Sc. Biotechnology. The students carry out their work under the supervision of the faculty member and are periodically advised by the doctoral committee. They have to actively participate in Journal clubs, research work presentation. The research students have to present their research work in a comprehensive seminar before submission of the thesis.

4. Ph.D. Biotechnology: This is a 4 to 5 years course. In the first two semesters there will be course work, which required to be completed before the comprehensive seminar. The students carry out their work under the supervision of the faculty member and are periodically advised by the doctoral committee. They have to actively participate in Journal clubs, research work presentation. The research students have to present their research work in a comprehensive seminar before submission of the thesis.

Entrance Examination

5. M.Sc Biotechnology: Selection is based on National Entrance Test conducted by the Jawaharlal Nehru University, New Delhi as part of the Biotechnology program supported by the Department of Biotechnology, Govt of India. ([www.jnu.ac.in/Admission/M.Sc Biotech07.htm](http://www.jnu.ac.in/Admission/M.Sc%20Biotech07.htm))

6. M.Tech Bioinformatics: Candidates will be short-listed in two categories Biotechnology and Non-Biotechnology subjects based on the GATE scores obtained in respective subjects. The admission is based on the performance of the candidates in Computer Sciences, Mathematical Sciences, Physical Sciences and Biological Sciences in a comprehensive interview.

7. Integrated M.Sc./Ph.D. Biotechnology: Admission is based on an entrance examination and interview conducted by the Department. The question paper will carry 75 objective type questions (75 marks) at degree standard questions drawn from Mathematics, Physics, Chemistry, Biology and quantitative aptitude. Based on the order of merit in the written examination, the candidates will be called for an interview (25 marks).

8. Ph.D. Biotechnology: Admission is based on an entrance examination and interview conducted by the Department. Candidates who are qualified in the NET examination (under Junior Research Fellowship category only) conducted by the CSIR/UGC or ICMR or DBT are exempted from the entrance examination. However, they are required to appear for the interview. The question paper will carry 75 objective type questions (75 marks) of M.Sc standard drawn from the areas of Biotechnology and Bioinformatics. Based on the order of merit in the written examination, the candidates will be called for an interview (25 marks).

9. Research Achievements

The Department faculty is engaged in high impact innovative research in the frontier areas of modern biology.

The faculty conducts their research with the support from several national and international funding agencies in the form of research grants. The faculty of the department is credited with several patents and research publications relating to biotechnology.

10. Infrastructure facility

The Department has HIV culture facility, neuronal and neuroglial culture facility, & stem cell culture facility. Further, several essential equipments such as centrifuges, spectrophotometers, PCR machines, HPLC, shaker, incubators etc. The Bioinformatics infrastructure facility funded by the Department of Biotechnology, Govt. of India is a well equipped facility that is used by the students. Students also have access to high performance computing facility and Centre for Modeling, Simulation and Design for regular training as well as project works. Software training given to students in the lab includes AccelRys, MAT Lab, SYBYL, Gold etc. In addition, the students have access to the computation facilities at the Centre for DNA Fingerprinting and Diagnostics for teaching and project works.

11. Faculty

Professors

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

Anand K. Kondapi, Ph.D. (Andhra) - Molecular Therapeutics, Functional characterization of DNA Topoisomerases in oncogenesis, HIV infection, neuroimmune activity and brain aging. **(Joint faculty in Dept. of Biochemistry) (Coordinator, Bioinformatics Infrastructure Facility)**

P. Prakash Babu, Ph.D. (UH, Hyderabad) – Neurochemistry, Cerebral ischemia (stroke), stem cell therapy, cerebral malaria, brain cancer, cell death (apoptosis/necrosis).

(Head of the Department and Coordinator, M.Tech. Bioinformatics Programme)

Reader

Niyaz Ahmed, Ph.D. (Manipal) – Pathogen Biology, Molecular Epidemiology, Biology of chronic infections.

K.P.M.S.V. Padmasree, Ph.D. (UH) – Biotechnological applications of proteinase inhibitors (agricultural and human therapeutics), Bioenergetics of chloroplasts and mitochondria.

J.S.S. Prakash, Ph.D. (Hamdard Univ.) – functional genomics and cyanobacterial gene regulatory networks.

Assistant Professors

Musturi Venkataramana, Ph.D. (SVU) - Molecular studies on viruses causing Dengue and Chicken guinea fever in Andhra Pradesh, India.

Vaibhav Vindal, Ph.D (Manipal) – Gene regulatory network, Functional Genomics of pathogens. Analysis of protein sequence, structure and function

N. Prakash Prabhu, Ph.D. (UH, Hyderabad) –Protein structure, folding, dynamics

Sunanda Bhattacharya, Ph.D. (Bose Institute, Kolkata) - Role of Chaperones in genome stability and chromatin remodeling. Role of Topoisomerase in Plasmodium and Toxoplasma biology.

Insaf Ahemd Qureshi, Ph.D (Hamdard Univ.) - Molecular Biology, Protein crystallography.

Nooruddin Khan, Ph.D. (CDFD, Hyderabad) – Molecular Immunology, Infections diseases.

G.B Madhu Babu, Ph.D. (Max-Planck Institute for Biophysical Chemistry, Goettingen, Germany) – Behavioral Neuroscience and neurodegenerative diseases
Paramananda Saikia, Ph.D. (IISc, Bangalore) – Innate antiviral immunity

Adjunct Professor

Dr. Shekhar Mande, Structural Biology (CDFD, Hyderabad)

School of Humanities

The School of Humanities comprises the following Departments / Centres and Cell:

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. Centre for English Language Studies
10. Centre for the Study of Foreign Languages
11. Centre for Classical Languages - Telugu
12. Centre for Endangered Languages and Mother Tongue Studies
13. Centre for Dalit & Adivasi Studies & Translation

The School of Humanities is founded on the conviction that the Humanities give purpose, direction and value to education and to life, and that they are no less important to society than scientific and technological disciplines. The School aims at providing a centre of common awareness and a sense of human responsibility, making the University more than a complex of specialist departments. In addition, it is committed to the achievement of academic and linguistic excellence, creativity and all-round development of students. The courses offered in the School reflect these objectives and concerns.

Prof. Mohan G Ramanan, Department of English, is the **Dean of the School**.

Department of English

The Department admits into its M.A. programme graduates from ANY basic discipline. It aims at providing instruction and carrying out research in both traditional and current areas of English Studies. In addition to core English Literature and American Literature components, it encourages work in New Literatures in English, Comparative Studies, Translation, Culture and Pedagogy of English.

Programmes of Study

The **M.A.** programme extends over four semesters. It is a 72-credit programme, with 56 credits for mandatory courses and 16 credits for optional courses, 4 of which may be obtained from other departments. Students may take further courses, up to a maximum of 80 credits, keeping in mind the department schedule.

The **M.A.** programme covers different areas of English Studies (Language and Literature) like Shakespeare and the Seventeenth Century; Eighteenth Century, Romantic, Victorian and Modern British Literature; American Literature; New Literatures; Indian Writing in English; Literary Criticism and Theory; Structure of English Language and other aspects of language study including the pedagogy of English. Whenever possible, instruction is provided in small classes through discussion and individual work.

The **M.Phil.** is a two semester programme which includes course work of 18 credits and a dissertation. The courses relate to each candidate's area of interest in which the dissertation will be written, and to core areas of study. The programme includes written examinations for the course work. The dissertation is written on a topic approved by the Department and under the supervision of a faculty member. Candidates are expected to give a pre- or post-submission seminar on their research topics. The dissertation is examined by both internal and external examiners.

For admission to the M.Phil programme, applicants must submit, along with the application, a brief description (about 500 words) of their proposed topic of research.

The **Ph.D.** programme normally extends over a minimum period of two years from the date of admission. The programme comprises mandatory course work for 6 credits in the first semester and a 4 credit course each in the second and third semesters, geared to individual requirements. Students are required to write a dissertation on an approved topic under Faculty guidance and take an oral examination.

Applicants for admission to the Ph.D. programme must submit, along with the application, a brief description (about 1000 words) of their proposed topic of research and a copy of their M.Phil. dissertation, which will be returned in due course.

The Department enrolls students for research both at the M.Phil. and at the Ph.D. levels in all major areas of English Studies i.e., Literature, Cultural Studies, Comparative Literature, Translation and issues related to the pedagogy of English. The choice of research topic is dependent on the availability of faculty and expertise. The Department Research Committee will help both M.Phil. and Ph.D. students choose their topics and supervisors.

Entrance Examination

M.A. entrance examination (written) comprises 3 (three) sections:

Section A 50 Marks

Candidates will be tested in English language skills, interpretive analysis and critical thinking. All candidates are expected to have a general understanding of literature.

Section B 20 Marks

Poetry Comprehension with minimum 5 questions – 4 Marks each

Section C 30 Marks

All questions are compulsory:

1. Precis Writing 10 Marks
2. Essay Writing (based on outline provided) 10 Marks
3. Comprehension Passage (multiple choice) 10 Marks

M.Phil. Entrance Examination (written) comprises 3 (three) sections.

Section I Language Skills (Objective) 25 Marks

Section II Literature
Essay on literary topics 25 Marks

Section III Literature
Poetry Comprehension 25 Marks

In addition, there is an Oral Test worth 25% marks for short-listed candidates.

Ph.D. Entrance Examination (written) comprises 3 (three) sections.

Section I Literature 25 Marks
A Poem for analysis

Section II Literature
Essay (on literary topics) 35 Marks

Section III Literature
Questions (s) testing research aptitude 15 Marks

In addition, there is an Oral Test worth 25% marks for short-listed candidates.

Infrastructural facilities

The Department enjoys support from the Special Assistance Programme of the UGC-DSA (Department of Special Assistance). This status was accorded to the Department after a review of its performance under three successful phases of assistance under the DRS (Departmental Research Support). The UGC sanctioned an amount of 67 Lakhs to the Department to be spent over five years for a project titled “English in India in Its Socio-cultural, Literary and Pedagogic Contexts” which commenced on April 1st, 2010. Prof. M. Sridhar is the Coordinator of the project. The Department has xerox machines, audio-visual equipment, and a substantial text-book library built up purely on the strength of donations from Faculty, students and other well-wishers. Some PCs have been set aside for the use of Research Scholars and the visually challenged. The Department’s Multimedia Laboratory is used for the study of language, drama, media and contemporary images.

Several donors have contributed financially to the Department. They include Nirmala Rita Nair, Linda Dittmar and the Chanduri family. The Department gives an annual prize in the name of Prof. Dorothy Deering.

Faculty

Professors

Mohan G. Ramanan, Ph.D. (BITS, Pilani); Modern British and American Literature, Indo British Literary and Cultural Relations, Indian Literature and Culture (**Dean of the School**)

K. Narayana Chandran, Ph.D. (IIT-Bombay); American Literature, Contemporary Poetry and Theory, English -

History and Pedagogy of the Discipline in India; Reading Theories and Translation; Intertextuality and Intergenres.

Sachidananda Mohanty, Ph.D. (IIT Kanpur); D.H. Lawrence and 20th Century Fiction, Intellectual History, Canon Formation, Nineteenth Century Literature, Regional Writing, Translation, Women's Writing, Cultural Studies.

Syed Mujeebuddin, Ph.D. (Kent); Commonwealth and Postcolonial Literature, Indian Fiction in English, Shakespeare Studies, Victorian and Twentieth Century English Literature (**Head of the Department**).

M. Sridhar, Ph.D. (Hyderabad); Literary Criticism and Theory, English in India, Cultural Studies, Comparative Studies and Translation.

Hoshang Merchant, Ph.D. (Purdue); Twentieth Century American Literature, Renaissance Literature, Continental Literature (in translation), Gay Literature and Poetry.

Readers

K. Suneetha Rani, Ph.D. (Hyderabad); New Literatures in English, Cultural Studies, Women's Studies, Comparative Studies, Translation Studies. (On Lien)

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

Pramod K Nayar, Ph.D. (Hyderabad); English Colonial Writing on India, Cultural Studies, Postcolonial Studies, Literary and Cultural Theory, Posthumanism.

Assistant Professors

Anna Kurian James, Ph.D. (CIEFL, Hyderabad); Children's Literature, Popular Culture, Shakespeare Studies.

Sindhu Menon, Ph.D. (Hyderabad); Post Colonial Theory, Romantic Literature, Children's Literature, Shakespeare Studies, Indo-British Literary and Cultural Transactions, Literary Criticism and Theory.

Department of Philosophy

The Department is eminently known in the country for research in diverse fields of philosophy. It has been recognised 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 Philosophy of Wittgenstein, Contemporary Western Philosophy, systems of Indian Philosophy like Nyaya and Buddhism, Philosophy of Science as well as Moral and Political Philosophy.

Programmes of study

M.A. Programme

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 in the various fields of philosophy such as Advanced courses in Nyaya and Buddhism, Political Philosophy, Philosophy of Science, Philosophy of Language, Wittgenstein, Philosophy of Art etc.

M.Phil. Programme

In this programme emphasis is laid on generating aptitude for independent research. It requires both course work and the writing of a dissertation. The course work consists of studying Contemporary Indian and Western philosophical problems. In addition, the students are required to do a course related to their respective dissertations. Interdisciplinary research is encouraged, where two or more departments/schools are involved.

Ph.D. Programme

The Ph.D. Programme aims at developing original research in diverse fields of philosophy. It encourages interdisciplinary research. The research scholars are required to write a dissertation on a topic of their choice in consultation with the supervisor. Interdisciplinary research is encouraged, where two or more departments/schools are involved.

Entrance Examination

The entrance (written) examination for admission to the M.A., M.Phil. and Ph.D. will have two parts - Part 'A' and Part 'B'. Part 'A' consists of 25 objective (multiple choice) type questions of one mark each. Part 'B' is for 75 marks for M.A., and 50 marks for M.Phil. and Ph.D. It consists of short and long essay type questions. The qualified candidates for M.Phil. and Ph.D. will have an oral test for 25 marks.

Infrastructural facilities

The Department offers facilities of xerox and computers to all students, apart from the centralized facilities.

Faculty

Professors

Amitabha Das Gupta, Ph.D. (IIT Kanpur) - Philosophy of Language, Moral Philosophy

R.C. Pradhan, Ph.D. (BHU) - Philosophy of Language, Wittgenstein

S.G. Kulkarni, Ph.D. (IIT, Kanpur) - Epistemology, Philosophy of Science (**Head of the Department**)

A. Raghurama Raju, Ph.D. (IIT, Kanpur) - Social and Political Philosophy, Contemporary Indian Philosophy

Prajit Kumar Basu, Ph.D. (IISc, Bangalore), Ph.D. (Iowa) – History and Philosophy of Science (**SAP Coordinator**)

Readers

K. Siddeswara Prasad, Ph.D. (SVU) - Nyaya, Indian Philosophy

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

Assistant Professors

Ananda V Wazalwar, M.Phil. (Rajasthan) - Moral Philosophy, Epistemology

Abhijeet Joshi, M.A. (Pt. R.S. University) – Advaita Vedanta

B. Ananda Sagar, Ph.D. (University of Hyderabad) – Epistemology and Analytical Philosophy

Venusa Tinyi, Ph.D. (University of Hyderabad) - Logic

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

Department of Hindi

The Department of Hindi aims at providing teaching and research facilities in Hindi, keeping in view the changing social norms, communication patterns, different social roles of language in our society and fast changing social values in our time. While drawing up the syllabus, sufficient care has been taken to cater to the above needs. It has been kept flexible enough to incorporate various requirements of the students in the context of contemporary society. Special attention is also given to the regional and comprehensive studies of language and literature.

Programme of Study

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

The **M.A. Hindi Language and Literature** course extending over four semesters provides instruction and guidance for acquiring broad acquaintance with the 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 the Functional Hindi and Translation stream, he/she will be offered four separate courses (Four credits each) and ‘Specialization in Functional Hindi and Translation’ will be mentioned in his/her degree of M.A. Hindi Language and Literature.**

The **M. Phil programme** is a two semester programme. The students will take courses on research methodology and advanced literary trends in the first semester and write a dissertation on an approved topic in the second semester under the supervision of a Faculty member.

The **Ph.D. programme** is entirely a research programme. Students are required to submit their thesis after taking the prescribed courses, if they directly join Ph.D. programme on other basis without M.Phil. No student is permitted to submit his/her thesis for the Ph.D. degree unless he/she has pursued a course of research in the department for not less than two years from the date of confirmation of admission under the supervision of a guide and on an approved topic. There may be written and oral examinations on the course work and the dissertation. ***Applicants for the M. Phil and 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 fields is given preference:

1. Bhakti Literature/Bhakti Movement
2. Comparative Studies
3. Sociological approach to Literature

4. Various aspects of Modern Literature
5. Dakkhini Hindi – Language and Literature
6. Dalit and Tribal Literature
7. Functional Hindi and Translation
8. Literature – Cinema mass media and cultural studies
9. Women and Gender discourse

Entrance Examinations

The entrance examination for M. A. Hindi Language & Literature will be consist of objective type questions only to be done on **OMR Sheet** . Objective type questions will be of 100% of the written test marks.

The written test for admission to **M.A. Hindi Language and Literature** will include objective type questions of 100 Marks related to the following areas to be done on **OMR Sheets**. **1.** History of Hindi Language and Literature **2.** Works of prominent personalities of Hindi Language and Literature **3.** Scientific and Academic topics related to Hindi language and literature **4.** Comprehension and explanation of a piece of poem/passage in Hindi and questions on general Hindi grammar/Linguistics.

The written test for admission to **M. Phil.** programme in Hindi will contain **Objective type questions** (M.A. standard) of (75 Marks) on the following areas **1.** History of Hindi literature **2.** History of Hindi language **3.** General Linguistics **4.** Works of prominent personalities of Hindi Language and Literature **5.** Scientific and Academic topics related to Hindi language and literature be done on **OMR Sheet**.

The main purpose of the written test for **Ph.D.** is to evaluate the scholarship, research aptitude and ability for critical analysis. It will also be of **objective type (75 marks)** to be done on **OMR Sheet**. The questions will be asked from following areas:

1. History of Hindi Language and Literature
2. Literary and linguistic topics of M.A. standard.
Questions will be from the areas of Medieval poetry, Modern literature, Drama and Fiction, Linguistics, Indian & Western Poetics & Criticism
3. Research Methodology and related topics

There may be negative marking for wrong answers of objective type questions in M.A., M.Phil. as well as Ph.D. written test as per the University rules.

Faculty

Professors

Subhas Chandra Kumar, Ph.D. (Bhagalpur)- Bhakti Movement and Bhakti Literature, Sociological approach to Literature, Comparative Literature, Functional Hindi, Translation, Modern Literay genres, Critical and aesthetic aspects of literature, Marxist aesthetics, Regionalism in literature, Interdisciplinary study of literature.

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

Ravi Ranjan, Ph.D. (Hyderabad)- Bhakti Poetry, Modern Literature, sociology of Literature & Literary Criticism. **(Head of the Department)**

R.S. Sarraju, Ph.D. (Andhra)- Functional Hindi and Translation studies, Comparative Indian Literature, sociology of Literature. **(Chief warden)**

Associate Professors

Sachidanand Chaturvedi, Ph.D (Kanpur), Ph.D. (Manipur)- Sanskrit literature, Hindi Poetics, General Linguistics, Modern Hindi Prose. (Essay)

Alok Pandey, Ph.D. (JNU) – Bhakti Literature, Modern Literature, Sociological Approach to Literature, Media, Hindi Cinema, Cultural Studies, Interdisciplinary studies.

Garima Srivastava, Ph.D. (Delhi) – Linguistics, Poetics, Literary Criticism, Sociological Approach to Literature, Modern Hindi Literature, Women and Marginalized studies.

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

Gajendra Kumar Pathak, M.A.Hindi (JNU), M.Phil. (JNU), Ph.D. (V.K.S.U.)- Renaissance, Modern Literature, Criticism

Assistant Professors

Bhim Singh, Ph.D. (Delhi)- Modern Hindi Literature, Folk Literature.

M. Anjaneyulu, Ph.D. (Hyderabad)- Modern Hindi Literature, Comparative Studies.

J. Atmaram, Ph. D (Hyderabad)- Hindi Criticism, Machine Translation and Functional Hindi & Translation

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 of the changing needs of the 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 interdisciplinary approach.

Programmes of study

The Department offers M.A., M.Phil. and Ph.D. programmes in 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 totaling 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 the all round development of the personality of the students with an adequate importance to job opportunities. The courses provide a wide range of specializations such as classical, modern and folk literatures, literary criticism and aesthetics, traditional grammar, Telugu linguistics, computer application to Telugu language, and mass media.

The **M.Phil.** Programme is of two semester duration which includes course work and dissertation. In the first semester, there are 4 courses with 4 credits each and in the 2nd semester, students have to write the dissertation.

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 two years from the date of confirmation of admission and maximum of five years. The nature of the programme is individually designed for each candidate but invariably include course work in the first semester and later a thesis on the approved topic under faculty guidance.

Entrance Examination

I. 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. There is no negative mark.

II. The M.Phil. Entrance Examination paper consists of 75 objective type questions at post graduation level of one mark each to be answered in OMR sheet. 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, aesthetics, literary works, authors, basic Sanskrit knowledge, General Knowledge etc. There is no negative mark. The candidates who qualified in the written test have to attend oral test for 25 marks.

III. Part 'A' Ph.D. entrance test consists of 25 objective type questions of one mark each without any negative mark, based on classical and modern literature, linguistics and history of Telugu language, grammar, chandas, alankaras, literary criticism and folk literature and General Knowledge (25 marks). And Part 'B' consists of descriptive type questions, a) problems concerning the particular area of research like classical literature, modern literature, grammar, literary criticism, language and folk literature (20 marks); b) preparation of research design, detailed synopsis of a given topic (15 marks) and c) literary appreciation or linguistic analysis of one literary piece out of two (one from classical and one from modern age) (15 marks). The candidates who qualified in the written test will have to attend oral test for 25 marks.

Faculty

Professors

N.S.Raju, M.A. (Osmania), Ph.D. (Andhra), P.G. Diploma in Applied Linguistics. Classical Telugu Literature, Grammar, Prosody, Poetics, Sociological approach to Literature, Linguistic approach to traditional Telugu grammar and Preparation of text books. (**Head of the Department**)

S. Sarat Jyotsna Rani, M.A. (Nagarjuna), Ph.D. (Osmania). Classical and Modern Literature; Modern Poetry; Folk Literature and Cultural History of Andhras, Telugu Drama and Literary Criticism

B. Ramabrahamam, Bhashapraveena (Andhra) M.A. Telugu (Andhra), M.A. Sanskrit (Andhra), Ph.D. (Nagarjuna). Sanskrit, Prakrit and Telugu Grammars; Prosody; Poetics; Classical Literature; Applied Criticism; Translation.

Tummala Ramakrishna, M.A., Ph.D. (S.V.U). Modern Literature, Poetry and Literature, Creative writing (Fiction), Text Book Preparation.

G. Aruna Kumari, M.A. (Telugu) M.A. (Sanskrit) M.A. (Philosophy) (Osmania); Ph.D. (Hyderabad). Modern Literature, Classical Literature, Folk Literature, Sanskrit, Logic and Inscriptional Telugu.

R.V. Rama Krishna Sastry, Vyakarana Vidya Praveena, Bhasha Praveena (Andhra), M.A. (Sanskrit), M.A. (Telugu), M.A. (Jyothisha) (PSTU), Ph.D. (Sanskrit & Telugu), CIC (IGNOU). Telugu and Sanskrit Grammar, Classical Literature, Literary Criticism.

Reader

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

Assistant Professors

Pammi Pavan Kumar, M.A. Telugu (UoH), M.A. Linguistics (Annamalai), M.Phil., Ph.D. (UoH). Classical and Modern Grammar, Applied Linguistics, Language Teaching, Natural Language Processing, Preparation of text books and Mass Media.(Coordinator, PGDMC & TTT)

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.

D. Vijayalakshmi, M.A. Telugu (Madras); M.A. Linguistics (Annamalai); Ph.D. (SPMVV, Tirupati) Diploma in Tamil, P.G. Diploma in Telugu Translation (SPMVV, Tirupati). Telugu Language & Applied Linguistics in Telugu.

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

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

Department of Urdu

The Department of Urdu aims at providing teaching and research facilities in Urdu.

Special importance is given for studies in classical and modern literature and Deccani research especially editing of Deccani Manuscripts. 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 Practice; 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. A separate room with some PCs is available for use of the research scholars. The Department conducts workshop, extension lectures by eminent scholars, and symposia/seminars of National and International level. There is tremendous response of M.Phil. and Ph.D. research and a good research output also.

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

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 **M.Phil.** Programme has twin objectives: i) to train a student in research methodology so that he/she may pursue Ph.D. research in a systematic manner; and ii) to familiarize them with practical criticism so that their research does not become a mere enumeration of facts but exhibits an exercise of the faculties of critical appreciation and evaluation of literary works.

The candidates for **Ph.D.** may be required to work on a topic approved by the Departmental Committee but our special targets are i) inter-disciplinary topics ii) topics of comparative literature. *Applicants for the Ph.D. course must submit along with their applications, a brief description (in about 500 words) of their proposed topic of research.*

Entrance Examination

The entrance examination for M.A./M.Phil/Ph.D. consists of two parts - Part 'A' and Part 'B'. Part 'A' consists of objective type questions only (25 marks). The tests are designed to test candidate's knowledge at appropriate level i.e. B.A. for admission to M.A. and M.A. for admission to M.Phil./Ph.D. Part 'B' of **M.A.** entrance examination will consist of i) two questions of essay type to test the explanatory/ descriptive ability of the candidate in Urdu language/literature and general topics (50 marks), and ii) one question to determine the candidate's capacity for understanding and explaining poetry/couplets/ nazm/rubai etc. (25 marks).

Part 'B' of the **M.Phil.** entrance examination will consist of a) two essay type questions to evaluate candidate's knowledge of literary forms, history of Urdu literature and criticism (30 marks); b) short questions on Urdu language and literature (20 marks).

Part 'B' of the **Ph.D.** test will consist of i) two essay type questions (30 marks) and ii) short question/s on Urdu language/literature (20 marks).

The qualified candidates for M.Phil. & Ph.D. will have an oral test for 25 marks.

Faculty

Professors

Mohammad Anwaruddin: Ph.D (UoH)- Urdu Journalism, Textual criticism, Research Methodology, Deccani Language and Literature, Urdu Criticism and Modern Literature.

Mohd Baig Ehsas: Ph.D (UoH)-Classical and Modern Fiction, Modern Poetry, Modern and Post Modern Criticism, Mass Media (**Head of the Department**)

K. Muzaffar Ali: Ph.D (Madras) Poetics, Classical Urdu Literature, Urdu Drama, Modern Poetry Modern and Post

Modern Criticism, Genres of Urdu Literature, Metaphorical Studies in Urdu Literature and Holy Quran.

Readers

Rizwana Moin: Ph.D (UoH), Interdisciplinary Studies, Classical and Modern Literature, Fiction.

Habeeb Nisar: Ph.D (UoH) Classical Prose and Poetry, Deccani Literature, Interdisciplinary Studies, Criticism, Textual Criticism, Practical Criticism, Urdu Fiction.

Assistant Professors

Arshia Jabeen: Ph.D (UoH), Modern Prose, Modern Fiction, Modern Literary Criticism, Computer Studies.

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

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

Nishath Ahmed: Ph.D (UoH) Daccani Literature, Modern Prose and Poetry

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

Centre for Applied Linguistics and Translation Studies (CALTS)

The Centre for Applied Linguistics and Translation Studies (CALTS), established as a research centre in 1988, initiated a post-graduate teaching programme in 1990. CALTS specializes in language interface studies with a special emphasis on Language Technology (for which a Special Assistance Programme has been sanctioned by UGC – Phase-I: 2002-2007, Phase-II: 2007-2012), Translation Studies, Lexicography, Language Typology, Language Teaching, Sociolinguistics and Psycholinguistics. CALTS has ongoing projects on Indian Language to Indian Language Machine Translation (IL-ILMT) and WordNet funded by DIT, MCIT, Govt. of India. Widely perceived as one of the advanced centres of teaching and research in Linguistics and Translation Studies in the country, CALTS has created a substantial computational facility for research and training in Natural Language Processing (NLP) and Machine Translation (MT). CALTS has specialized Faculty in other areas too, which include formal Syntax and Semantics, Historical Linguistics, Psycholinguistics and Sociolinguistics as well as specialists in different Classical and Modern Indian and Foreign Languages, such as Sanskrit, Telugu, Tamil, Kannada, Oriya, Bangla, Khasi,

Tyniedie and Russian. Centre for Applied Linguistics and Translation Studies (CALTS) has been evaluated and rated as “Centre of Excellence” among 32 important institutions in the country by the Research Council of UK.

Programmes of study

The Centre offers two M.A. programs (2 year – M.A. in Applied Linguistics), M.A. (5-year Integrated) in Language Sciences, two M.Phil. programs, viz. Applied Linguistics, Translation Studies and two Ph.D. programs, viz. Applied Linguistics and Translation Studies.

M.A. in Applied Linguistics is a 4-semester programme with 5 courses per semester. The compulsory courses cover Phonetics, Phonology, Morphology, Syntax, Literary Theory, Semantics, Language Teaching and Testing, Translation Studies, Lexicography, Computational Linguistics, Historical Linguistics, Psycholinguistics, and Sociolinguistics. The electives offered include: Semantics, Word Formation, South Asia as a Linguistic Area, Language use in Professions, Advanced Computational Linguistics, Machine Translation, Computational Lexicography, Linguistics and Literature, Field Linguistics, Analytical Techniques, Structure of an Indian Language, Advanced Syntax, etc.

M.A. (5-year Integrated) in Language Sciences has been launched from 2006-2007.

This 10-semester programme trains students to work as language experts in the emerging areas of Computational Linguistics, Speech Technology, Communication Studies and Cognitive Science, and Speech Therapy among others. The course is offered through Centre for Integrated Studies.

M.Phil. in Applied Linguistics is a 2-semester programme including four papers in the 1st semester and a dissertation in the 2nd semester. The course work provides exposure to Research Methodology, Current Trends in Applied Linguistics as well as Theories of Translation and electives such as Advanced Topics in Sociolinguistics, Language Teaching & Testing, Lexicography, Psycholinguistics, Language Planning & Development, Indian Grammatical Tradition, Translation, History & Culture, Structure of an

Indian/Foreign Language, Computational Linguistics. Candidates have to submit a dissertation on a topic approved by the Centre.

M.Phil. in Translation Studies is a 2-semester programme including course work and a dissertation like M.Phil. in Applied Linguistics. There are four papers to enable students from Literature, Linguistics and other backgrounds to pursue their interests in Translation Studies and begin research without getting too deeply involved in micro linguistics. Candidates have to submit a dissertation on a topic in Translation Studies approved by the Centre.

Ph.D. programmes in Applied Linguistics and Translation Studies extend over a minimum period of two years from the date of confirmation of admission. The nature of each programme is individually decided for each candidate but normally (especially for candidates who have no M.Phil. in the concerned subjects) includes at least four papers spread over the first two semesters and a dissertation on an approved topic under the Faculty guidance.

Entrance Examination

The pattern of the question paper for the entrance examination 2012 shall be as follows:

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

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

Section – A -- Aptitude for language	-- 20 marks
Section – B -- General Knowledge with respect world languages	-- 20 marks
Section – C -- Knowledge of Indian languages	-- 20 marks
Section – D -- General Knowledge on Indian languages	-- 20 marks
Section – E -- Questions from Language problems set	-- 20 marks

There will be negative marking of 0.33 for every wrong answer.

(B) M.Phil. in Applied Linguistics (75 marks)

There will be 75 questions of objective type, spread across three sections:

Section – A -- General Linguistics	-- 25 marks
Section – B -- Areas of Applied Linguistics	-- 25 marks
Section – C -- Areas of Core Linguistics	-- 25 marks

There will be negative marking of 0.33 for every wrong answer.

In addition to this, there will be an interview for 25 marks for those who have qualified in the written examination.

(C) M.Phil. in Translation Studies (75 marks)

There will be 75 questions of objective type, spread across three sections:

Section – A-- A General Aptitude for Language, Literature & Translation -- 25 marks
Section – B -- Questions in Translation on Foundational Topics -- 25 marks
Section – C -- Comprehension and Analytical ability -- 25 marks

There will be negative marking of 0.33 for every wrong answer.

In addition to this, there will be an interview for 25 marks for those who have qualified in the written examination.

(D) Ph.D. in Applied Linguistics (75 marks)

There will be 75 questions of objective type, spread across three sections:

Section – A -- Core Areas of Linguistics -- 30 marks
Section – B -- Applied Areas of Linguistics -- 30 marks
Section – C-- In the areas of Research Methodology -- 15 marks

There will be negative marking of 0.33 for every wrong answer.

In addition to this, there will be an interview for 25 marks for those who have qualified in the written examination.

(E) Ph.D. in Translation Studies (75 marks)

There will be 75 questions of objective type, spread across three sections:

Section – A -- Theory of Translation -- 30 marks
Section – B -- Practical Translation -- 30 marks
Section – C -- Comprehension and Analytical ability -- 15 marks

There will be negative marking of 0.33 for every wrong answer.

In addition to this, there will be an interview for 25 marks for those who have qualified in the written examination.

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

2. Applicants for admission to the Ph.D. programme must submit along with the application (i) a brief description (about 500 words) of their proposed topic of research and

(ii) a copy of M.Phil./M.Litt. dissertation/papers (returnable).

Faculty

Professors

Panchanan Mohanty, Ph.D. (Berhampur) – Language Teaching and Testing, Psycholinguistics, Phonology, Morphology, Language Typology, Computational Linguistics, Quantitative Linguistics, Translatology. (Coordinator for Centre for Endangered Languages and Mother Tongue Studies)

B.R. Bapuji, Ph.D. Linguistics and Sociology (Osmania) – Social Theory, Sociology of Language, Translation Studies, Political Sociology, Gender Studies, Literacy Studies. (On official assignment to Dept. of Sociology)

G. Uma Maheshwar Rao, M.A. Applied Linguistics (SUNY, New York), Ph.D. Linguistics (Osmania) - Historical Linguistics, Derivational Morphology, Non-linear Phonology, Computational Linguistics.

Gautam Sengupta, Ph.D. (Massachusetts) – GB Theory, Philosophy of Language, Computational Linguistics & Formal Semantics and Linguistic Cognition (Joint Faculty, Centre for Cognitive Science).

N. Krupanandam, Ph.D. (SVU) – Language Teaching, Lexicography, Field Linguistics, Translation Theory and Practice. (**Director of the Centre**)

K. Subrahmanyam, Ph.D. (Andhra) – Sanskrit Language and Literature, Discourse Analysis, Literary Criticism, Translation Studies, Natural Language Processing, Telugu Grammar & Literature, Comparative Literature, Paninian Studies, Indian Philosophy, Ayurveda, Rajaniti, Lexicography and Semantics. (Joint Faculty, Dept. of Sanskrit Studies)

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

J. Prabhakara Rao, Ph.D. (Moscow) – Mathematical and Computational Linguistics, Systemic Linguistics and Systemic Typology, Methodology of Linguistics, Translation Studies, Russian Linguistics and Russian as a Foreign Language. (Coordinator, Centre for Study of Foreign Languages)

Readers

K. Rajyarama, Ph.D. (UoH) – Derivational Morphology, Translation Theory and Practice, ELT and Syntax.

Gracious Mary Tansen, Ph.D. (Delhi) – Syntax, Linguistic Typology, Mon-Khmer Linguistics.

Assistant Professors

Somsukla Banerjee, Ph.D. (IIT Kanpur) – Cognitive Linguistics, Semantics, Language Deficit Studies, Psycholinguistics. (on EOL)

K. Parameswari, M.Phil. (UoH) – Morphology and Computational Linguistics.

Sriparna Das, Ph.D. (UoH) – Translation Theory, Practical Translation, Gender Studies.

Mimi Kevichüsa Ezung, Ph.D. (DU) – Linguistic Typology, Syntax, Tibeto-Burman Linguistics.

Centre for Comparative Literature

The Centre for Comparative Literature functioning since 1988, aims at providing an interface between literatures and cultures with a contemporary charge. The Centre offers M.A., M.Phil. and Ph.D. programmes. The endeavour is to encourage young learners to study and understand expressive modes and archives of knowledge beyond those of their own culture; forge alliances with and develop sensitivity to differences in cultures and traditions; develop a critical awareness of socio-political and cultural discourses in terms of their impact on the literary and cultural studies.

Programmes of Study

A comparative approach to literature is a necessity today, especially in India given the multicultural and multilingual nature of Indian society. Unlike monolingual -- and relatively homogenized-- societies where 'comparison' merely allows for reading/appreciation of other literatures, the polycultural Indian situation demands a complex comparative engagement with literatures.

M.A. Programme in Comparative Literature aims to sensitize students to the needs of a comparative approach to literature. Tracing the history of the discipline in India and the world, and the development of its methodologies, the programme offers intensive study through four semesters of course work. Each semester carries 18 credits. There is continuous evaluation followed by semester end examinations. Through the course, the students are exposed to aesthetic modes and critical theories to enable the appreciation of literature in a critically nuanced manner. The course emphasizes Translation Studies as an important critical tool to engage with literatures written in diverse languages. The third/fourth semesters allows a choice of elective subjects and prepares the student for writing a research-oriented dissertation.

M.Phil. Programme is a two-semester programme, including course work and dissertation. The Courses comprising 16 credits include Comparative Theory and Research Methodology; Criticism and Contemporary Theory; and two Courses of the student's choice from the Courses being offered by the Centre, in consultation with the faculty. The dissertation is required to be written under faculty supervision on a topic approved by the Centre. The programme includes a written examination at the end of the first semester on the courses studied and submission of the dissertation for examination by the end of second semester.

Ph.D. Programme extends over a minimum period of two years from the date of confirmation of admission. The nature of the programme is individually decided by the student in consultation with the faculty, but the requirements invariably include Course Work over two semesters comprising 16 credits and a dissertation on an approved topic under faculty guidance.

Medium of Instruction

Applicants for admission to the Centre should note that the medium of instruction in the Centre is English. They should therefore ensure that they have a good knowledge of English to follow the lectures and participate in other curricular activities. Furthermore, applicants must provide documentary evidence of knowledge of literatures of at least two languages (one of which may be English). This does not hold in the case of those who already have an M.Phil. in Comparative Literature and are applying for Ph.D. admission.

Entrance Examination

The entrance examination for **M.A.** will carry 100 marks, comprising questions of objective type (50marks); essay type and translation (50marks).

M.Phil. / Ph.D. consists of two parts: Part 'A' and Part 'B'. Part 'A' comprising objective type questions will test the candidate's knowledge of modern Indian literatures and comparative literature theory (25 marks). Part B of the M.Phil./ Ph.D. question paper will consist of i) short notes on Indian literatures and Western and Indian critical concepts and movements (20 marks) ; ii) one essay on a topic on comparative Indian literature (15 marks) and iii)

translation of a passage from English to an Indian language (15 marks).

Applicants for Ph.D. must submit along with the application (a) a brief description (about 500 words) of their proposed topic of research and (b) evidence of submission of M.Phil. / M.Litt. dissertation /copies of published papers (to be returned). Applications unaccompanied by these enclosures may not be considered.

Faculty Professor

Tutun Mukherjee, Ph.D.(Osmania University) – Literary Criticism and Theory; Translation; Women’s Writing; Theatre and Film Studies; Culture Studies.

Associate Professor

M.T. Ansari, Ph.D. (EFLU, Hyderabad) – Cultural Studies; Critical Theory; Malayalam Literature; Minority Discourse (**Director of the Centre**).

Nandini Bhattacharya, Ph.D. (University of Jadavpur)- Critical Theory; Translation Studies; Culture Studies; Tagore and Gandhi Studies; Indian Writing in English; Dalit Studies; 19th Century Bengal/Britain interface Studies; Children’s Writing.

Assistant Professor

Sowmya Dechamma C.C., Ph.D. (University of Hyderabad) – Translation Studies; Gender and Ecological Studies; Kannada Literature; Kodava Language and Cultural Discourse.

J. Bheemaiah, Ph.D. (Osmania University) – Dalit and Tribal Studies; Indian Literatures; Literature of the Margins; Culture Studies.

Department of Sanskrit Studies

Sanskrit is a repository of unlimited invaluable knowledge of Ancient Indian Heritage. There is an urgent need for knowledge mining from Ancient Sanskrit texts for bridge building between the past and the future through the present. Keeping this in view, a unique research oriented Department of Sanskrit Studies was established in 2006 which will act as an interface between Sanskrit and the sub-fields of the Humanities, Social Sciences and the Sciences.

Major goals of the Department are:

- To build bridges between the Ancient Indian knowledge systems and the current knowledge systems.
- To explore Ancient Sciences and Technologies with a modern perspective to build alternate viable systems for the future.
- To collect, preserve, and maintain the manuscripts dealing with Ancient Indian Sciences and Technology.
- To train traditional scholars in order to undertake research in application oriented knowledge mining.

Ph.D. programme

The Department offers a Ph.D. programme in Sanskrit Studies. While the present focus of the programme is in Language Technologies and Ayurveda, the Department actively encourages research in Sanskrit Studies in other disciplines such as Physical Sciences, Social Sciences, Management etc. The Ph.D Programme extends over a minimum period of two years from the date of confirmation of admission. The nature of each programme is individually decided for each candidate which may include two courses and a dissertation on an approved topic under the Faculty guidance.

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

- All candidates admitted to Ph.D. in the department, whether full time, part time or external, are required to complete a course work of 4 courses of 4 credits each within a period of 2 year from the date of admission. The admission is provisional which is subject to confirmation on successful completion of the course work.
- Minimum marks for passing in any course is 50%.
- In case a candidate is unable to pass in all the 4 courses within 2 years, his/her admission stands automatically cancelled.
- The Choice of 4 courses is decided by the Doctoral Research Committee of the candidate concerned from among the list of approved courses by the Departmental Committee. Out of the 4 courses, 2 courses are core papers and 2 are elective.

5. Examinations will be conducted twice a year, i.e., in October/November and April/May.
6. On successful completion of four semesters of the four papers, the provisional admission will be confirmed.

Entrance Examination

The entrance examination for **Ph.D.** consists of two parts - Part 'A' and Part 'B'.

Part 'A' consists of 25 objective type questions (25 marks). The questions will be on vyakarana/linguistics and on general Sanskrit. The purpose of examination will be to test the understanding of concepts rather than mere memorization. There will be negative marking for this part, and 0.33 mark will be deducted for each wrong answer.

Part 'B' will have three sub-sections. The first sub section consists of 10 marks, wherein the candidate has to write a short note on the topic in which he would like to do research, explaining the methodology involved. The second sub-section involves essay type questions (20 marks) to test the aptitude of the candidates for research. The third sub-section consists of 6 short answer type questions (20 Marks). The questions in second and third sub sections are from Vyakarana, linguistics, NLP, Computational linguistics and Navya Nyaya.

Faculty

Associate Professor

Amba Kulkarni, 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. (**Head of the Department**)

Assistant Professor

J.S.R.A. Prasad, Acharya (Navya-Nyaya), Shiksha-Sastry, Ph.D. (Navya Nyaya, Rashtriya Sanskrit Vidyapeetha, Tirupati) - Ayurveda, Nyaya Vaisheshika, Philosophy of Language

Joint Faculty

Prof. K.N. Murthy, Ph.D. (Hyderabad) – Natural Language Processing, especially grammars and parsing systems. Tools for language teaching and language learning. Other interests include Yoga, Ayurveda and the Darshanas (from DCIS)

Centre for English Language Studies (CELS)

The faculty of the Centre teach English to the Integrated Masters students of the university and also offer English language courses for specific disciplines. The Centre will offer MPhil and PhD programmes in English Language Studies from 2012.

Programmes of Study:

The **M.Phil** is a two-semester programme which includes course work of 16 credits and a dissertation. The courses relate to each candidate's area of interest in which the dissertation will be written, and to core areas of study. The programme includes written examinations for the course work. The dissertation is written on a topic approved by the Centre and under the supervision of a Faculty member. Scholars are expected to give a pre- submission seminar on their research work. The dissertation is examined by both internal and external examiners.

For admission to the M.Phil programme, applicants must submit, along with the application, a brief description (about 500 words) of their proposed topic of research.

The **Ph.D.** programme normally extends over a minimum period of two years from the date of admission. The programme comprises mandatory course work for 8 credits in the first semester and 8 credits in the second semester geared to individual requirements. Course work requirements will vary according to whether a candidate has an M.Phil degree or not. Scholars are required to write a dissertation on an approved topic under the supervision of a faculty member. The dissertation is examined by internal and external examiners and is followed by a viva voce. During the period of research, scholars will give seminars on their work in progress at periodic intervals.

Applicants for admission to the Ph.D. programme must submit, along with the application, a brief description (about 1000 words) of their proposed topic of research.

Note: The choice of research topic is dependent on the availability of faculty and expertise.

M.Phil Entrance Examination:

Written Examination : 75 marks

Interview : 25 marks (for candidates short-listed on the basis of the written examination)

Written examination will consist of three parts, two of which will be objective type.

Section A will test **proficiency in English** by means of objective type questions.

(25 marks, with negative marking; 0.33 will be deducted for every wrong answer.)

Section B also of objective type will consist of a question or questions on testing problem-solving abilities or data analysis. (25 marks, no negative marking)

Section C will be an **essay type** question. (25 marks)

Ph.D. Entrance Examination:

Written Test : 75 marks

Interview : 25 marks (for candidates short-listed on the basis of the written examination)

Written examination will consist of three parts, two of which will be objective type.

Section A will test **proficiency in English** by means of objective type questions. (25 marks)

Section B also of objective type will consist of a question or questions testing problem solving abilities or data analysis and research aptitude. (25 marks)

Section C will be an **essay type** question. (25 marks)

Faculty:

Professor

Pingali Sailaja, Ph.D. (CIEFL, Hyderabad); General Linguistics, Phonetics, Generative Phonology and Morphology, English Language Teaching, English in India: Historical, educational and linguistic aspects. (**Director of the Centre**).

Associate Professor

Sunita Mishra, Ph.D. (CIEFL, Hyderabad); English Language Education, Sociolinguistics, Discourse Analysis, Critical Applied Linguistics, E.L.T. in India.

Assistant Professors

Shree Deepa, MA English (Osmania), M.Ed., (Bharathidasan University); PGDTE (CIEFL); PhD English (Osmania); English Language and Literature Teaching, Stylistics, Interdisciplinary Studies, Teacher Training.

Jyothi Hymavathi Devi, M.A. English, M.A. Anthropology, M.Sc. Psychology, M.Phil Translation Studies (University of Hyderabad); English Language and Literature Teaching, Translation Studies, Dalit Studies.

Centre for Dalit & Adivasi Studies and Translation

The Centre has been established recently with the aim to prepare an atmosphere of National Integrity and emotional binding between the marginalized communities, mainly the Dalits & Adivasis with the main stream literature through translation in Hindi. The translation of these literary texts into Hindi and further studies and research based on them would be giving to Hindi an opportunity to fulfill its role as the National Language and the link Language of our country in a true sense. The syllabus of the Centre has been drafted in such a way that the Dalit and the Adivasi literature, both will be taught parallel. There will be field work also as the objective of the Centre is to collect the oral traditions (memory bank) & performance, arts, paintings and handicrafts of the Dalit & Adivasi culture and lifestyle. The Centre has decided to offer M.Phil. and Ph.D. programme from the academic year 2012-13 onwards.

Programmes of Study

M.Phil.

The M.Phil. programme is a two semester programme. In the first semester the students will be offered four courses with 04 credits each, the fourth course being a practical course. In the second semester, the student will write a dissertation on a topic approved by the Centre, under the supervision of a Faculty member. Candidates have to give a pre or post-submission seminar on their research topic.

Ph.D. Programme

The Ph.D. programme normally extends over a minimum period of two years from the date of admission. In the first

semester 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 under the guidance of a faculty member. After submission of the thesis the candidate has to attend an Oral examination.

Entrance Examinations :

M.Phil.

The Written Test comprises of 25 marks on objective questions on the History of Hindi Language and Literature, Indian Dalit & Adivasi Literature and Translation AND 50 marks descriptive questions on proposed area of research and Indian Dalit & Adivasi Literature and Translation.

In addition, there is an Oral Test Worth 25 % marks for shortlisted candidates.

Ph.D.

The written Test comprises of 25 marks on objective questions on the History of Hindi Language and Literature, Indian Indian Dalit & Adivasi Literature and Translation AND 50 marks descriptive questions comprising of One Essay type question on the proposed area of research and One question on Research Methodology and related topics and One question on the proposed research project. In addition, there is an Oral Test Worth 25 % marks for shortlisted candidates.

Faculty

Prof. V. Krishna (**Coordinator of the Centre**)

School of Social Sciences

The School of Social Sciences comprises the following Departments and Centres.

Departments

1. Department of Economics
2. Department of History
3. Department of Political Science
4. Department of Sociology
5. Department of Anthropology

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 Gandhian Economic Thought
8. Centre for Ambedkar Studies

The Departments of Economics, Political Science and Sociology have been recognised by the University Grants Commission for the Special Assistance Programme.

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 students. All the Departments are equipped with internet facilities.

From the Academic Year 2007-2008 the School of Social Sciences has started 5-Year Integrated Programme in Social Sciences leading to Masters Degree in Economics, 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 Economics, History, Political Science, Sociology and Anthropology.

Prof. G. Nancharaiah, Department of Economics is the Dean of the School.

Department of Economics

The Department of Economics has been offering programmes of study leading to M.A., M.Phil. and Ph.D. degrees since 1979. The Department also introduced a 5-year Integrated MA programme in Economics in 2006. The Department offers well-balanced courses of study at all levels incorporating Economic Theory, Quantitative Analysis, and Indian Economic Problems.

Programmes of study

M.A. programme has been designed to expose the student to alternative paradigms of economic theory and their application to contemporary national and international problems. Students are in addition trained in econometrics and quantitative methods. A certain minimum standard in quantitative methods is expected of candidates. The programme for M.A. studies is divided into 4 semesters spread over two years and consists of compulsory and optional courses which the student can opt for from a wide range of courses, designed to cover economic theory, techniques and applied economics.

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 spent the first three years of study at the Centre for Integrated Studies, after which they are transferred to the Parent Department. The final two years of the M.A. (5-year Integrated) in Economics programme are common with the M.A. Economics programme. Further details about the programme and entrance test can be found under Centre for Integrated Studies in this Prospectus.

M.Phil. is a one year programme consisting of course work and dissertation. The course work places emphasis on: a) recent advances in selected areas of economics, b) literature in the chosen area of research and, c) proficiency in

research methodology of economics. Students are required to do course work in the first semester. During the remaining part of the programme, they are expected to write a dissertation.

The **Ph.D.** programme consists mainly of research work (with a provision for course work to those who are admitted without M.Phil. degree) 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.

Entrance Examination

The Entrance Examination for M.A. programme consists of only objective type questions. The test is designed to test 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.

Entrance test details for M.A. (5-year Integrated) programme are given under the Centre for Integrated Studies.

Admission to the M.Phil./Ph.D. programme is based on written and oral tests. The written test (common to both the M.Phil. and the Ph.D. programmes) consists of 75 multiple choice questions. The written test carries 75 % weightage and the oral test remaining 25 % weightage. Only those who qualify in the written test will be called for the oral test. Those who are qualified under UGC JRF are exempted from the written test for the Ph.D. programme. Candidates for Ph.D. programme are required to submit a research proposal along with applications for admission. Applications without research proposal will not be considered.

Faculty

Professors

G. Nancharaiiah, Ph.D. (Andhra) - International Economics, Agricultural Economics, Development Economics & Mathematical Economics (**Dean of the School**)

K.N. Murty, Ph.D. (Gujarat) - Econometrics, Applied Economics and Statistics

B. Kamaiah, Ph.D.(IIT, Bombay) - Monetary and Financial Economics

J.V.M.Sarma, Ph.D. (Gujarat) – Public Economics, Corporate Finance, Econometrics and Computer Applications

Naresh Kumar Sharma, Ph.D. (ISI, Delhi) – Economic Theory, Gandhian Economic Thought, Development, Science and Technology, (**Head of the Department**)

A.V. Raja, Ph.D. (IIT, Kanpur) - Micro Economic Theory, Law & Economics, Environmental Economics, Development Economics.

Vathsala Narasimhan, Ph.D.(ISI, Calcutta) - Economic Theory, Mathematical Economics and Economics of Development with special reference to Agriculture.

G. Omkarnath, Ph.D. (JNU) – Classical economic theory, Indian economy, Teaching of economics

J. Manohar Rao, Ph.D. (JNU) – Health Care Economics, Development Theory and Policy, WTO and Globalization, Classical Political Economy, Economics of Science, Technology and Technical Change, Micro-Economic Theory, Comparative Economic Systems.

Readers

K. Laxminarayana, Ph.D. (UoH) - Political Economy and Agricultural Economics, Economics of Education

R.Vijay, Ph.D. (UoH) – Political Economy, Development Economics, New Institutional Economics.

R V Ramana Murthy, Ph.D. (UoH) – Development Studies, Macro Economics and Law & Economics

S.Sandhya, Ph.D. (JNU) – Demography, Population and Development, Health Economics, Health Policy

N.A. Khan, Ph.D. (Allahabad) – Public Economics, International Trade, Infrastructure Economics, Macro Economics

Debashis Acharya, Ph.D. (UoH) – Macro-Monetary Economics, Financial Economics

Vamsicharan Vakulabharanam, Ph.D. (Massachusetts, USA) – Macro Economics, Development Economics, Political Economy.

Assistant Professors

B. Nagarjuna, (Senior Scale) Ph.D (UoH) – Industrial Economics, Transitional Economics and International Finance, Indian Economy.

Phanindra Goyari, (Senior Scale) M.Phil, (IGIDR, Mumbai), Ph.D. (UoH) – Econometrics, Mathematical Economics, Agricultural Economics, and Model Building & Simulation in Economics.

G. Vijay, Ph.D.(Institute of Social Studies The Hague)– Labor Economics, Environmental Economics, Economics of Business Organizations, Law and Economics, Political Economy

G. Sridevi, Ph.D. (Institute of Social and Economic Change, Bangalore) – Food Security, Health Care, Gender and Poverty.

Limakumba Walling, M.A (UoH) – Macroeconomics, Political Economy and Economics of Competition.

Prajna Paramita Mishra, Ph.D (UoH) – Environmental, Natural Resource Economics

Alok Kumar Mishra, Ph.D (UoH) - Macroeconomic Dynamics, Financial Economics, Financial Derivatives and Risk Management, Econometric Models

Department of History

The Department of History offers courses leading to **M.A.**, **M.Phil.** and **Ph.D.** degrees. It also offers 10 courses in history for the first three years of M.A. (5-year Integrated) programmes 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, science, technology, Environment and cultural history.

At the research level the Department's primary focus is on the socio-economic and cultural history of the Deccan region, namely, Andhra Pradesh, Karnataka and Maharashtra. At the same time, an in-depth study of the linkages (socio-cultural and economic) of the Deccan region with other Indian regions and the outside world are also attempted. 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 inter-disciplinary approach to understand the underlying social and economic realities of the history of the Deccan through the ages. The Department has been involved in guiding research on North East regions, science, technology, environment and medicine, economic history, maritime history, women's studies, Indian national movement, peasant and tribal movements, cultural history and contemporary history.

Programmes of Study

The **M.A.** course 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 the students in certain core compulsory courses in both Indian and non-Indian history. These are designed to be comprehensive and 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 as optionals are offered 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 or fourth semesters with the aim to encourage inter-disciplinary studies. The Department during each academic year decides the number and title of options.

The **M.Phil.** Course covers two semesters including dissertation, extendable by one semester. During the first semester, three compulsory courses have to be done by the students. The focus is on issues of historical interpretation and method. One of these is an intensive introduction to the problem being researched by the individual students leading, in the following semester to the writing of a dissertation under the guidance of a Faculty member on an approved topic.

The **Ph.D.** programme is mainly a research programme. Those students admitted directly without M.Phil. degree are required to do the M.Phil. course work and examination conducted by the Department. Students undertake research on an approved topic under the guidance of a Faculty member.

Infrastructural Facilities

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 could procure and strengthen the infrastructural facilities in the Department. It has also been able to support the continuance of several foreign and Indian journals on History subscribed by the Library. The Archival Cell in the Department contains the private papers of individuals who have participated in the freedom movement. The Department has an archaeological museum containing antiquities representing stone ages to late Medieval periods. As part of its effort the Department continues to document

and update its resources with the help of equipment being purchased from time to time.

Computer Lab for students of M.A, M.Phil and Ph.D.

The Department of History has a Computer Laboratory with 12 Computers and a printer. All the students of history are free to use the lab with free internet access.

Entrance Examination

The Department conducts its **M.A., M.Phil.** and **Ph.D.** Entrance Examinations based on a wide array of different types of questions. Two aspects that are common to the examination for M.A. course is the inclusion of essays and objective type questions to assess the general aptitude and capability of the candidates and their knowledge of the subject for pursuing the course concerned. In addition, for the M.A. examination, the Department may have other types of assessment procedures like the inclusion of short extracts and questions based on it or the inclusion of “fill in the blanks” based on well-known historical facts. The **M.Phil. and Ph.D.** examination assess the students on writing, major essay, short essays and short notes on key concepts in history and one of the essays to be done is necessarily on historiography or historical method. In general, candidates interested in pursuing their studies in the Department are assessed in their intensive knowledge of historical facts and also their ability to comprehend general concepts in history along with their skills in writing about historical narratives in a comprehensive way. Students seeking admission to the M.Phil. and Ph.D. courses must also take a Viva-Voce examination.

Faculty

Professors

Aloka Parasher Sen, Ph.D. (London) - Ancient and Early Medieval Indian History, Socio Economic History of the Deccan, Women’s History, Historical Archaeology, Urban History and Historiography

R.L. Hangloo, Ph.D. (JNU, Delhi) - Medieval Indian History with Special reference to Medieval Indian State, Medieval Indian Economy and Technology, and History of Kashmir and Central Asia (EOL for 2 years from 30.09.2011) (On deputation to ICCR, Government of India, to take up the position of Visiting Professor of Indian Studies at Tbilisi State University, Georgia)

Atlury Murali, Ph.D. (JNU, Delhi) - Social and Cultural History of Colonial India with special reference to Freedom

Struggle, Peasant Movements, Women’s Studies, Environmental Studies and History of Computers, Science, Technology and Medicine

K. P. Rao, Ph.D. (Nagpur) – Field Archaeology, Pre and Proto History, Ancient Indian History, Iron Age, Megalithic Culture and Ancient Trade. (**Head of the Department**)

Rekha Pande, Ph.D. (Allahabad) - Medieval Indian History, Socio-economic History, Women’s History, Religion, Society and Cultural History and the History of Medieval Science and Technology (**Coordinator, Centre for Women’s Studies**).

Rila Mukherjee, Ph.D. (Paris) – Economic History of South Asia, early Modern European history, Democracy and citizenship studies, Maritime and Oceanic history, Historical Cartography (EOL for 2 years from 14.10.2011) (On deputation to take up the position of the Director, Institute de Chandernagore, Department of Higher Education, Hooghly, West Bengal)

Readers

Sanjay Subodh, Ph.D. (Chandigarh) – Medieval Indian Historiography, Science and Technology and Medieval Archaeology.

R. Swarupa Rani, Ph.D (Hyderabad) – Modern Indian History, Social and Cultural History of South India, Women’s History and Historiography. (Study leave from 01.07.2011 for one year)

Anindita Mukhopadhyay, Ph.D. (London) – Modern Indian History, Modern Western Ideas and their Impact, Law and Society, Society and Culture.

Assistant Professors

M.N.Rajesh, Ph.D. (JNU, Delhi) – Medieval Indian History, Socio-Religious Movements and Polity in South India and the Deccan and Tibetan History and Culture.

V. Rajagopal, Ph.D. (Wisconsin) - Modern Indian History, Social History and History of South India.

Rashmi, Ph.D. (JNU, Delhi) - Medieval and Early Modern Indian History, Urban History, Cities and Maritime History

Department of Political Science

The Department of Political Science currently has Special Assistance Programme (DSA-III) on the thrust area **Globalization, State, Civil Society and governance interface**. The Department offers courses leading to M.A., M.Phil. and Ph.D. degrees.

Programmes of study

The **M.A.** programme in Political Science consists of 16 courses (8 core or compulsory courses and 8 optional courses) spread evenly over four semesters. Each course carries four credits. In formulating the entire programme,

the Department is guided by the consideration that at the post graduate 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 are aimed at acquainting students with the latest political and theoretical trends, making the programme contemporaneous, relevant and useful. There is also a course giving an overview of the major approaches to the study of politics.

After completing these 8 compulsory courses in the first two semesters, students are required to choose 8 optional courses from a considerably long list of special courses. These not only supplement the compulsory courses in the core areas but also offer students opportunities to study such frontier areas like Human Rights, Feminism and Post-modernism and vulnerable/marginalized groups.

The **M.Phil.** course is a two semester programme. The students are required to devote the first semester to course work which consists of four courses, each carrying four credits, in the areas of Research Methodology, Advanced Theories and a specialized course in the field of student's research interest. In the following semester, each student is required to write a dissertation on an approved topic under the supervision of a Faculty member.

The **Ph.D.** programme consists mainly of a research project (and course work if required) and a thesis on a topic approved by the Department. The thesis should be of a high standard and considered to be a valuable contribution to the area of study concerned. Candidates for the Ph.D. programme are required to submit a research proposal for the intended Ph.D. thesis along with the application for admission. The research proposal should contain hypothesis, goals or objectives, statement of the problem and methods of executing the proposal. *This is an essential requirement.*

Entrance Examination

M.A.: The written test for admission to **M.A.** Political Science consists of three parts. Part-A (30 marks) consists

of multiple-choice type questions that test the general knowledge as well as subject specific knowledge of the candidate. Part-B (30 marks) consists of passages of general type to test reading comprehension abilities of the candidates. In Part-C (40 marks) the candidates will be asked to answer two essay type questions, where choice is available. In this section while some questions are subject specific, some are of general nature which can be answered by candidates from non-political science background.

M.Phil.: The written test for **M.Phil.** programme consists of 10 essay type questions out of which the candidates are expected to answer any three questions (75 marks). The questions will cover different areas of political science, namely Political Theory, International Relations, Comparative Politics, Indian Government and Politics and Public Policy / Public Administration. Selection of candidates will be based on the performance in the written test (75 marks) and interview (25 marks) with the exemption to JRFs as per the UGC Rules.

Ph.D.: The written examination for Ph.D. programme will have two parts. Part A consists of three questions (3 questions) on Methodology. Out of the three questions, the candidate should attempt only **One** question and it carries 25 marks. It should reflect the candidate's preparedness to pursue research. Part-B consists of 10 questions covering different areas of Political Science: Political Theory, International Relations, Comparative Politics, Indian Government and Politics and Public Policy / Administration. Candidates are expected to attempt two questions and each question carries 25 marks (2 x 25 = 50) marks. Selection of candidates will be based on performance in the Written test (75 marks) and interview (25 marks), with exemptions to JRF / RGNFs as per UGC Rules.

Faculty

Professors

Rajendra Govind Harshe, Ph.D.(JNU) – International Relations, Comparative and Area Studies with reference to Afro Asia and Political Theory .

Shantha Sinha, Ph.D. (JNU) - Indian Government and Politics, Political Sociology, Political Development, Rural Political Processes. (On EOL till 17.5.2013)

Prakash C. Sarangi, Ph.D. (Rochester) – Political Theory, Comparative Politics.

P. Eashvaraiah, Ph.D. (Kanpur) – Indian Political Process: Political parties in India, Agrarian Politics in India; Modern Political Theory with Reference to Socialism and Feminism.

I. Ramabrahmam, Ph.D. (Hyderabad) – Public Policy, Governance, Higher Education and Training.
G.Sudarshanam, Ph.D. (Kakatiya) – Public Administration, Public Policy, Rural Development.

Md.Moazzam Ali, Ph.D. (JNU) - International Relations, Comparative Politics; Russian and East European Studies; Human Rights; Modern Ideologies.

Arun Kumar Patnaik, Ph.D. (JNU) – Political Theory, Political Economy of Development. (**Head of the Department**)

Jyotirmaya Sharma, M.A. (HULL) – Political Philosophy/ Theory, Indian Political Thought (EOL till 30.06.2013)

K.C. Suri, Ph.D. (JNU) – Indian Political Process and Public Policy

Readers

B. Chandrasekhara Rao, M.A. (Andhra), (Dip. In Strategic Studies) - Comparative Government and Politics, Indian Government and Politics, Chinese Studies, Dalit Politics.

Sanjay Palshikar, Ph.D. (Poona) - Political Theory, Indian Political Process.

Vasanthi Srinivasan, Ph.D. (Ottawa) – Political Philosophy, Comparative Politics.

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, Women Studies.

K.Y. Ratnam, Ph.D. (JNU) – Indian Political Process, Dalit politics in India, Democratic process in A.P.

Assistant Professors

R. Ramdas, Ph.D. (JNU) – Indian Political Process, Tribal Development, Comparative Politics

Biju B.L., Ph.D. (Univ. of Kerala) – Political Theory, Indian Political Process, Politics of Globalization

Shaji S, Ph.D. (University of 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.

Venkatesu.E, M.A. (JNU), M.Phil., Ph.D. (University of Hyderabad) – Democratic Decentralization and Governance, Good governance, Public Policy, Backward Class Politics in India and Political Process in India

Department of Sociology

The Department, started 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. The Department has had a Special Assistance Programme supported by the U.G.C. in the thrust areas of social identities, globalization and the idea of 'public space'. This has been upgraded to DSA-I status (2007-12), with a special focus on themes of globalization and public and public space. 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

Three programmes of study are offered leading to the **M.A., M.Phil. 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 Organisations.