हैदराबाद विश्वविद्यालय

University of Hyderabad

विवरण-पत्रिका

Prospectus

2013-14

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
Prof. C. R. Rao Road,
P.O. Central University,
Gachibowli, 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 शिल्पनैपुणमू ।।

The verse also occurs in the anthology of subhasitas entitled "Sarangadharapaddhati" (No. 4396). In this latter work, the source of the verse is given as Vasisthat. The verse obviously possesses and 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
सिध्द करने वाली हो, वही विद्या है । इससे भिन्न
कर्म व्यर्थ परिक्षम रुप और भिन्न विद्याएँ केवल
कला-कौशल रुप ही हैं ।''

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

Admission Enquiries:
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Tel. 040-2313 2102
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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
11. School of Economics

The Schools of Physics, Chemistry, Management Studies, Engineering Sciences & Technology and Economics 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 and Bioinformatics
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

14. Centre for Buddhist Studies

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

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

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 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.

2

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 2013-14 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
Earth Sciences

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 will be based on the allotment made by the Jawaharlal Nehru University (JNU), New Delhi which will conduct a common entrance test in May 2013.

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 2013-14 will be based on the percentile scores obtained in CAT 2012 followed by an Interview / Group Discussion which is under proces .*

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

Master of Public Health (MPH) **(4 semesters)**

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 Course **(2 Semesters)**

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)

Materials Engineering

Nano Science and Technology

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

Electronics Science

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
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
Economics
Earth & Space Sciences
ACRHEM
Psychology
Cognitive Science
Gender Studies

Integrated M.Sc./Ph.D. (2 to 7 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:

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 31.7.2013 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 31.7.2013 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, 2013** 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. However, the University may give extension of time up to **31.8.2013** to submit the certificates of the qualifying degree examination. Such candidates will be given conditional admission up to **31.8.2013** only. ***However, this facility shall not be extended to those who are taking regular or supplementary or improvement examinations of the qualifying degree after 31.07.2013 and waiting for the results.*** In the event of the concerned students failing to (i) submit their certificates of the qualifying Degree examination by **31.8.2013**, 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 **31.8.2013**.

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 **30.9.2013**, 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 admission **or** 15.7.2013 whichever is earlier and are awaiting their results may be allowed to submit their M.Phil or M.Tech results and certificates within a maximum period of one year from the date of their admission. During this period, they will not be paid any scholarship or fellowship. Once they submit the certificates, proving their eligibility for admission into the Ph.D., their scholarship/fellowship will be paid with retrospective effect from the date of their admission. If they fail to submit the results and the certificates within one year, their admission shall stand cancelled forthwith.

6. All courses at the Master's Degree level, 5-Year Integrated Master's Degree, Advanced PG/PG Diploma, M.Phil.; M.Tech. and Integrated M.Sc./Ph.D. are full time regular courses.

For Ph.D. programmes, the candidates are encouraged to join as regular students. However, for those who are not in a position to 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 **15th April, 2013**. ***(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 15.4.2013 will not be considered.

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

As proposed by the UGC, two supernumerary seats have been created for admitting the students coming from the state of Jammu & Kashmir under MHRDs special scholarship scheme.

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).***

Note: No sports weightage will be considered for PG Diploma/Adv. PG diploma and M.Tech. courses.

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, 2013** for the July 2013 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 2013.** 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. Physics and Health Psychology), M.Sc. (5-year Integrated) courses in Sciences and M.A. (5-year Integrated) courses in Humanities and Social Scienes 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. Physics, and Health Psychology, M.Phil, Integrated M.Sc./Ph.D. Biotechnoogy; M.Tech. 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 (No written test or interview will be conducted).

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. 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., Master of Public Health (MPH), M.A. - Hindi, Telugu, Applied Lingusitcs, Economics; M.Phil. – Hindi, Telugu, Applied Linguistics, Translation Studies Economics, Cognitive Science; M.Tech. Materials Engineering, Nano Science and Technology; Ph.D. in Computer Science, Physics, Plant Sciences, Animal Sciences, Biotechnology, Hindi, Applied Linguistics, Translation Studies, Economics, Management Studies, Materials Engineering, Nnao Science and Technology,

ACRHEM, Cognitive Science, Integrated M.Sc./Ph.D. Biotechnology.

Note: The question paper of some more subjects viz., M.A. English, Comparative Literature, Communication, P.G. Diploma in Communication, M.Phil. English, Urdu, Compatative Literature, English Language Studies, Dalit and Adivasi Studies and Translation Studies, Political Science, Sociology, Ph.D. in English, Urdu, Compatative Literature, English Language Studies, Dalit and Adivasi Studies and Translation Studies, Political Science, Sociology need to be answered partly in OMR sheet and partly in a separate answer book as per the instructions provided in the question paper.

5. The written tests for all the courses will be held from **21st to 26th February, 2013** at 33 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 possisble. 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, Ph.D. Materials Engineering, Nano Sceince and Technology, Integrated M.Sc./Ph.D. Biotechnology, M.Sc Mathematics, Statistics-OR, Physics, Health Psycology and the courses offered by the S.N. School are **tentatively scheduled** to be held between **7th May to 11th May 2013,** 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 Universtiy website

Particulars of the scheduled event	Adv. PG Dip. / PG Degree Courses in Sciences (except Physics, and Health Psycology), 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 Physics, and Health Psychology, M.Sc. (5-year Integrated) in Optometry and Vision Sciences,	M.Tech CS/AI/IT
Notification of short-listed candidates for interviews / practical tests **Notification of candidates** shortlisted for Admission counseling	**---**	**30.3.2013**	 **10.5.2013**
Notification of list of selected candidates (Main & waiting lists) Admission counseling	**8.4.2013**	**31.5.2013**	 **3.6.2013**

Note:*(i) The Entrance results will be made available on the internet:*http://www.acad.uohyd.ac.in; 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 for all courses :

15.7.2013

Cut off marks for admission to M.Phil., M.Tech., Integrated M.Sc./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 2013 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. and Integraed 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, MANF and DST INSPIRE fellowship** 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, Earth 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.

Note: - *(i) Candidates qualified in UGC-CSIR National level test for Lectureship alone and those who have qualified in GATE (except for Ph.D. Electronics Science), 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) Whereever interview is a component of entrance examination for admission, though the candidates secure more than the curoff marks in the written test / weightage and fail to appear for the interview shall not be entitiled 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 **c**andidates 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 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/InformationSciences, Life Sciences
31	Bharat Biotech Foundation	- Life Sciecnes
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 Institute (LVPEI)
3. Institute of Life Sciences (ILS)
4. Institute for Development and Research in Banking Technology (IDRBT)

6) **Ph.D. admissions for October 2013 and January 2014**

After completion of the regular admissions in June/July, 2013, 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 2013

ii) 1st to 31st of January 2014

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./ 5-Year Integrated M.A./M.Sc. /Adv. PG/PG Dip./ M.Phil./ M.Tech./ Ph.D./Integrated 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 courses/programmes offered by the University. The 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 **January 21, 2013.** 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 14th February, 2013. The University wil 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 2013-2014 carefully and judge their eligibility before submitting their application forms. Despite this caution, in case the candidates do not meet the minimum eligibility criteria and still apply for the entrance examination, they will do so at their own risk and cost. Mere issue of Hall Ticket and allowing a candidate for entrance examination including interview/practical test and allowing a candidate to complete the admission which is provisional will not entitle a candidate for any claim on the provisional admission if she/he does not fulfil the required eligibility conditions for admission as prescribed in the Prospectus-cum-application form 2013-14 **which will be verified at the time of admission. At any stage (during the pursuance of the course/programme if it is found that any candidate does not fulfill the minimum eligibility requirements**, the provisional admission that was 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.	Centre	Code	Venue
1.	Ahmedabad	AHM	School of Sciences, Gujarat University, Navrangpura, Ahmedabad – 380 009 – Gujarat
2.	Aizawl	AIZ	Life Science Block, Pachhunga University College, Aizawl, Mizoram.
3.	Anantapur	APR	Phule Bhavan, S.K. University College, Anantapur.
4.	Bengaluru	BAN	Rashtreeya Vidyalaya Teachers College, Jayanagar, II Block, Bangalore – 560 011
5.	Bhubaneswar	BNR	P.G. Department of Political Science, Old Arts Block, Utkal University, Bhubaneswar 751004
6.	Bhopal	BPL	University Institute of Technology (UIT), Barkatullah University, Hoshangabad Road, Bhopal – 462043 (MP)
7.	Chennai	CNI	Chandrashekar Hall, The Institute of Mathematical Sciences, 4th Cross Road, CIT, Campus, Taramani, Chennai 600 113
8	Cochin	CHN	Department of Polymer Science & Rubber Technology, Cochin University of Science & Technology, Kochi – 682 022
9.	Coimbatore	CMB	PSG Institute of Management, PB No.1668, Avinashi Road, Peelamedu, Coimbatore – 641 004
10.	New Delhi	DEL	Ojas Institute of Management, B-1, Sector 16, Rohini, Delhi – 110085
11.	Dimapur	DIM	Dimapur Government College, Oriental Colony, Dimapur – 797112, Nagaland.
12.	Guwahati	GHT	Arts Building, Gauhati University, Guwahati – 14
13.	Hyderabad	HYD	University of Hyderabad Campus, Gachibowli, Hyderabad – 500 046
14.	Jaipur	JPR	Jaipur University, Jaipur.
15.	Jammu	JAM	Government Gandhi Memorial Science College, Canal Road, Jammu
16.	Kadapa	KDP	Yogi Vemana University, Vemanapuram, Kadapa-516003
17.	Karimnagar	KRM	S.R.R. Government Degree & PG College, Jagtial Road, Karimnagar 505001
18.	Kolkatta	KOL	Jadhavpur University Campus, Kolkatta
19.	Lucknow	LCK	School for Ambedkar Studies (SAS), Babasaheb Bhimrao Ambedkar University, Vidya Vihar, Raibareli Road, Lucknow – 226025
20.	Mumbai	MUM	SNDT College of Arts & SCB, College of Commerce and Science for Women, Mumbai – 400 020
21.	Nagpur	NPR	Laxminarayna Institute of Technology L.I.T.), Opp. Bharat Nagar, Amaravati Road, Nagpur 440033 (M.S.)
22.	Nizamabad	NZB	Giriraj Government College, Dubba Road, Nizamabad.
23.	Pune	PNE	Department of Law, University of Pune, Ganeshkhind Road, Pune – 411 007
24.	Patna	PAT	Pariksha Bhavan, B.N.College, Patna – 800004 (Bihar)
25.	Raipur	RPR	College of Agriculture, NH-6, Mahasamund Road, Krishak Nagar, Jora, Raipur (CG) - 492012

S.No.	Centre	Code	Venue
26.	Ranchi	RNC	Multipurpose Examination Hall, Morhabadi Campus, Ranchi University, Ranchi
27.	Shillong	SHL	Science Seminar Hall, Near Department of Biochemistry Office, NEHU, Permanent Campus, Malai, Shillong – 793022
28.	Srinagar	SNR	Humanities Block, University of Kashmir, Srinagar – 190006
29.	Tirupathi	TPT	S.V. Oriental Degree & PG College, TTD, Tirupati.
30.	Vijayawada	VIJ	P.B.Siddhartha College of Arts & Science, Mogalrajpuram, Siddhartha Nagar, Vijayawada – 520 010
31.	Visakahapatnam	VSP	School of Distance Education, Near Outgate, Andhra University, Visakhapatnam.
32.	Vizianagaram	VZM	M.R.College (Autonomous), Near Clock Tower, Elugubanti Vari Street, Vizianagaram – 535 002
33.	Warangal	WRL	Humanities Building, University College, Kakatiya University, Warangal.

Note : (1) The University reserves the right to cancel any of the above 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 entranace 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 2013-2014

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: a) once at the time of admission b) Fees (Per Sem /Per annum)	8) Sports Fee (Per Sem)	13) Total Cols. (2-12)
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) (a)	(3) (b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
M.A. (5-year Integrated), M.A. Courses in Humanities & Social Sciences	265	275	--	425	--	220	165	130	190	330	700	65	2765	1220	3985
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.	265	275	--	425	720	220	165	130	190	330	700	65	3485	1450	4935
M.Sc. Biotechnology	265	275	--	2890	1400	220	165	130	190	330	700	65	6630	1450	8080
5 – Year Int. M.Sc. in Optometry & Vision Sciences	265	275	6000 *	7380	1280	220	165	130	300	330	700	65	17110	2180	19290
M.Sc. Animal Biotechnology	265	275	5450**	425	720	220	165	130	190	330	700	65	8935	2180	11115
M.Sc. Chemistry/ Biochemistry /Plant Biology & Biotechnology, Molecular Microbiology, Ocean and Atmospheric Sciences, **M.Sc.** (5-year Integrated) (Sciences/ Earth Sciences/Health Psychology)	265	275	--	425	720	220	165	130	190	330	700	65	3485	2180	5665
M.Sc. Health Psychology	1765	275	6000**	1375	1400	220	240	130	190	330	700	65	12690	2180	14870
M.C.A.	265	275+ 157000	--	8710	2360	220	165	130	190	330	700	65	29110	1450	30560
M.B.A.	2360	275 + 15700	--	18110	4720	220	165	130	190	330	700	65	42965	3085	46050
M.B.A. Health Care and Hospital Management, Master of Public Health (MPH)	2440	275 + 19360	--	24200	6000	220	240	130	300	330	700	65	54260	2900	57160
M.A. Communication	265	275	5450*	425	1450	220	165	130	190	330	700	65	9665	1450	11115
M.Tech (CS / AI / IT)	265	275+ 15700	--	8650	2360	220	240	130	300	330	700	65	29235	1450	30685
M.Tech. Bioinformatics	1770	275	14500**	1380	1400	220	240	130	190	330	700	65	21200	2180	23380
M.Phil Courses in Humanities and Social Sciences/ Gender Studies	265	275	--	665	--	220	240	130	300	330	700	65	3190	1450	4640
M.Phil. Cognitive Science/ **M.Tech.** Comp. Tech./ M.Tech IC Technology	265	275	--	665	720	220	240	130	300	330	700	65	3910	1450	5360

(1)	(2)	(3) (a)	(b)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Ph.D. (Full – time) Humanities/Social Sciences / Gender Studies	265	275	--	900	--	220	--	130	300	330	700	65	3185	1220	4405
Maths/Statistics/Computer Science/ Physics/ Electronics Science/ Dance/Theatre Arts / Management Studies/ Communication/ Folk Culture Studies/ Cognitive Science	265	275	--	900	720	220	--	130	300	330	700	65	3905	1450	5355
Chemistry/Biochemistry/ Plant Sciences/Animal Sciences/ Biotechnology/ ACRHEM/ Earth & Space Science/ Int. M.Sc./Ph.D. Biotechnology/ Medical Sciences	265	275	--	900	720	220	--	130	300	330	700	65	3905	2180	6085
M.Tech. Materials Engineering/ Nano Science and Technology / **Ph.D.** Materials Engineering / Nano Science & Technologies	265	275	6000*	4350	1815	220	240	130	300	330	700	65	14690	2180	16870
Ph.D. Part –Time / External Registration Humanities/Social Sciences / Gender Studies	265	275	--	1570	--	220	--	130	300	330	700	65	3855	1220	5075
Maths/Statistics/ Computer Science/ Physics/Electronics Science/Dance/Theatre Arts/ Management Studies/ Communication/ Folk Culture Studies/ Cognitive Science	265	275	--	1630	720	220	--	130	300	330	700	65	4635	1450	6085
Chemistry/Biochemistry/ Plant Sciences/Animal Sciences/ Biotechnology/ ACRHEM/ Earth & Space Science/ Medical Sciences	265	275	--	1630	720	220	--	130	300	330	700	65	4635	2180	6815
Ph.D. Materials Engineering / Nano Science & Technologies	265	275	6000 *	4350	1815	220	240	130	300	330	700	65	14690	2180	16870

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 For all other courses	5000 * 2500	1500
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	1100
2	MBA For the candidates from developed countries For the candidates from developing countries	 5450 2400
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	1100
5	PG Courses other than Sciences and 5-year Integrated M.A. Courses in Humanities and Social Sciences	650
6	M.Phil Programmes in Humanities and Social Sciences	880
7	Ph.D. Programmes in Sciences, Computer Science and Management Studies	1100
8	Ph.D. Programmes in Humanities, Social Sciences and S.N. School	880
9	M.Phil/Ph.D. Programmes in all subjects for the candidates from SAARC countries	440

Note: 1. 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. 275 towards the Alumni fund in Indian Rupees.

2. Candidates who are granted admission in MBA, MCA and M.Tech (CS/AI/IT), M.Tech Bioinformatics, M.Sc Animal Biotechnology, Health Psychology, 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 $ 1000 as one time payment towards Development Fee at the time of admission.

Proposed Minimum qualifications for admission to various courses and intake for the academic year 2013-14

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** **Physics/ Chemical Sciences** **Systems Biology**	16 16 16 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 Bhaba Centre, Mumbai), IIT - JEE 2013 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.	**24.2.2013 10.00 a.m.**	---
M.A. (5-Year Integrated) in Humanities	**Telugu** **Hindi** **Urdu** **Language Science**	15 08 07 15	With a minimum of 60% marks at +2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent)	**26.2.2013 10.00 a.m.**	---
M.A. (5-Year Integrated) in Social Sciences	**Economics** **History** **Political Science** **Sociology** **Anthropology**	11 10 10 11 10	With a minimum of 60% marks at +2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent)	**24.2.2013 2.00 p.m.**	---
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	**23.2.2013 2.00 p.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	**26.2.2013 2.00 p.m.**	**8.5.2013 10.00 a.m.**
M.Sc. (5-Year Integrated)	**Earth Sciences**	08	With a minimum of 60% marks at +2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent) with Science subjects	**24.2.2013 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	**22.2.2013 2.00 p.m.**	---
M.Sc.	**Statistics-OR**	20	Same as above	**21.2.2013 2.00 p.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.	**25.2.2013 2.00 p.m.**	**7.5.2013 & 8.5.2013 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	**23.2.2013 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	**21.2.2013 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.	**26.2.2013 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.	**23.2.2013 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.	**22.2.2013 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 for 3 years	**23.2.2013 10.00 a.m.**	**8.5.2013 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 main subject at the Higher Secondary (10+2) level.	**23.2.2013 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.	**25.2.2013 10.00 a.m.**	**9.5.2013 10.00 a.m.**
MPH	**Public Health**	**30+10@**	Bachelor's degree with 55% marks in Sciences/Social Sciences/ Medical Sciences/Nursing/Pharmacy/Physiotherapy/ Dentistry/ Business Administration	**22.2.2013 2.00 p.m.**	**10.5.2013 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 in May 2013.

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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 interview
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.	**25.2.2013 10.00 a.m.**	**---**
M.A.	**Philosophy**	23	Bachelor's degree in any subject/s with at least 50% marks in aggregate.	**26.2.2013 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: *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.*	**23.2.2013 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.	**26.2.2013 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.	**26.2.2013 2.00 p.m.**	**---**
M.A.	**Applied Linguistics**	23	At least 50% marks or an equivalent grade 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 or an equivalent grade in the Bachelor's degree in any other discipline.	**23.2.2013 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 /English as Compulsory subject.	**21.2.2013 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.	**25.2.2013 2.00 p.m.**	**---**

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of interview
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.	**25.2.2013 10.00 a.m.**	**---**
M.A.	**Philosophy**	23	Bachelor's degree in any subject/s with at least 50% marks in aggregate.	**26.2.2013 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: *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.*	**23.2.2013 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.	**26.2.2013 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.	**23.2.2013 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.	**26.2.2013 10.00 a.m.**	
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 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.	**26.2.2013 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.	**22.2.2013 2.00 p.m.**	**---**
Adv. PG Diploma	**Folk Culture Studies**	15	Any Master's degree with a minimum of 55% aggregate Marks in Social Sciences, Humanities, Fine Arts, Performing Arts and Communication	**24.2.2013 2.00 p.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.*(The experience/training certificate should be furnished during the practical test.*) 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 in Dance from a nationally recognized institution.	**22.2.2013 10.00 a.m.**	**7.5.2013 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.	**21.2.2013 10.00 a.m.**	**7.5.2013 10.00 a.m.**

M.F.A.	**Painting** **Print making** **Sculpture**	14 08 08	Bachelor's degree in Painting / Printmaking / Sculpture Application form should carry Six certified images/photographs/CD of their works produced during or after their under graduation for selection procedure.	**26.2.2013 2.00 p.m.**	**7.5.2013 & 8.5.2013 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.	**25.2.2013 10.00 a.m.**	**9.5.2013 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	**21.2.2013 10.00 a.m.**	**7.5.2013 to 9.5.2013 10.00 a.m.**
PG Diploma	**Health Commuu-nication**	**15+5***	Bachelor's degree in any discipline with atleast 55% aggregate marks OR Master's degree in any Social Science discipline with atleast 50% aggregate. Sponsored candidates must have worked in the health or communication sector for a minimum of two years with their application being forwarded through the appropriate channel in their organization.	**21.2.2013 2.00 p.m.**	**10.5.2013 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.	**24.2.2013 2.00 p.m.**	**7.5.2013 & 8.5.2013 10.00 a.m.**
MBA**		60	A three or four year Bachelor's degree (or its equivalent) in any discipline recognized by the Association of Indian Universities/AICTE, obtained before July 2013.	--	--

** The admission of candidates into MBA for the year 2013-14 is under process which is based on the percentile scores of the applicants in CAT 2012 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** **Artificial Intelligence** **Information Technology**	45+5* 30+5* 30+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).	---	---
M.Tech.	**Computa-tional 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.	**22.2.2013 2.00 p.m.**	**9.5.2013 & 10.5.2013 10.00 a.m.**
M.Tech.	**IC Technology**	15+8*	With at least 55% marks in the Master's degree in Electronics **OR** M.Sc. (Physics) with Electronics as one of the subjects with at least 60% marks **OR** B.E./B.Tech. in Electronics and Communication Engineering or Instrumentation Engineering with at least 60% marks. **Note:** Valid GATE scores in the order of merit, in one of the following subjects will be the criterion for short listing candidates for interview. No written test will be conducted. **(**1)Electronics and Communication Engineering (2) Instrumentation Engineering (3) Physics		**9.5.2013 & 10.5.2013 10.00 a.m.**

M.Tech.	**Bioinfor-mataics**	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 viz., 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.		**8.5.2013 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.	**26.2.2013 2.00 p.m.**	**7.5.2013 10.00 a.m.**
M.Tech	**Materials Engineering**	12	BE/B.Tech., or equivalent degree in Metallurgy, Mechanical (Production/Manufacturing Engineering), Materials Engineering, Ceramic Engineering/Technology, Polymer Engineering/Technology or Engineering Physics **OR** B.Sc. or equivalent degree with Physics, Chemistry and Mathematics followed by AMIE in Materials & Megallurgical Engineering, Mechanical Engineering or AMIIM **OR** Diploma in Mechanical Engineering, Metallurgical Engineering, followed by AMIE in Materials and Metallurgical Engineering, Mechanical Engineering (Production Engineering) or AMIIM **OR** Master's degree in Physics, Chemistry, or Materials Science. ***Candidates should have at least 60% marks in the respective qualifying exam.***	**24.2.2013 2.00 p.m.**	**7.5.2013 10.00 a.m.**
M.Tech.	**Nano Science & Technology**	8	B.E./B.Tech. or equivalent degree in Metallurgy, Mechanical (Production/Manufacturing Engineering), Materials 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 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. ***Candidates should have at least 60% marks in the respective qualifying exam.***	**24.2.2013 10.00 a.m.**	**8.5.2013 10.00 a.m.**

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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	**25.2.2013 10.00 a.m.**	**6.5.2013 to 8.5.2013 10.00 a.m.**
M.Phil.	**Philosophy**	14	Master's degree in Philosophy with at least 55% marks	**25.2.2013 2.00 p.m.**	**7.5.2013 10.00 a.m.**
M.Phil.	**Hindi**	23	Master's degree in Hindi with at least 55% marks	**25.2.2013 2.00 p.m.**	**7.5.2013 10.00 a.m.**
M.Phil.	**Telugu**	20	Master's degree in Telugu with at least 55% marks	**25.2.2013 2.00 p.m.**	**7.5.2013 10.00 a.m.**
M.Phil.	**Urdu**	30	Master's degree in Urdu with at least 55% marks	**25.2.2013 2.00 p.m.**	**7.5.2013 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 an equivalent grade; **OR** Master's degree in allied subjects with at least 55% marks or an equivalent grade 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	**23.2.2013 2.00 p.m.**	**7.5.2013 10.00 a.m.**
M.Phil.	**Translation Studies**	09	Master's degree in any subject with a minimum of 55% marks or an equivalent grade with proficiency in two languages reflected in previous qualifying examination.	**26.2.2013 10.00 a.m.**	**7.5.2013 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. The candidate must present documentary evidence of knowledge of at least two literatures / languages (one of which may be English).	**22.2.2013 10.00 a.m.**	**8.5.2013 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	**22.2.2013 2.00 p.m.**	**10.5.2013 10.00 a.m.**
M.Phil.	**Dalit and Adivasi Studies and Translation**	06	Master's degree in Hindi with atleast 55% marks	**23.2.2013 10.00 a.m.**	**9.5.2013 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)	**21.2.2013 2.00 p.m.**	**7.5.2013 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.)	**26.2.2013 10.00 a.m.**	**7.5.2013 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	**25.2.2013 2.00 p.m.**	**7.5.2013 10.00 a.m.**
M.Phil.	**Sociology**	10	Master's degree in Sociology or Social Anthropology with at least 55% marks.	**25.2.2013 2.00 p.m.**	**7.5.2013 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)	**25.2.2013 10.00 a.m.**	**8.5.2013 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.	**22.2.2013 2.00 p.m.**	**9.5.2013 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.	**21.2.2013 10.00 a.m.**	**9.5.2013 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.	**23.2.2013 2.00 p.m.**	**9.5.2013 10.00 a.m.**
M.Phil.	**Cognitive Science**	08	Master's degree in any discipline in the Humanities or Social or Natural Sciences with at least 55% marks.	**21.2.2013 10.00 a.m.**	**10.5.2013 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.	**26.2.2013 2.00 p.m.**	**10.5.2013 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. **Ph.D.**	**Mathematics/ Applied Maths/** **Statistics/OR**	06	Master's degree in concerned or related subjects with at least 55% marks or equivalent grade with UGC/CSIR/NBHM JRF/RGNF/MANF Same as above	**---** **---**	**8.5.2013 10.00 a.m.** **8.5.2013 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 minimum of 60% marks in the above stated qualifying degrees.	**25.2.2013 10.00 a.m.**	**7.5.2013 & 8.5.2013 10.00 a.m.**
Ph. D.	**Physics**	20	M.Sc. degree with at least 55% marks in Physics or a closely related area.	**21.2.2013 2.00 p.m.**	**11.5.2013 & 12.5.2013 10.00 a.m.**
Ph.D.	**Electronics Science**	02	With at least 55% marks in the Master's degree in Electronics **OR** M.Sc. (Physics) with Electronics as one of the subjects with at least 60% marks **OR** B.E./B.Tech. in Electronics and Communication Engineering or Instrumentation Engineering OR M.Tech./M.E. in Electronics related areas with at least 60% marks. **Note:** Candidates should have qualified in UGC//CSIR NET JRF/ OR GATE Examinations conducted in 2010/2011/2012/2013 in the following subjects : (1)Electronics and Communication Engineering (2) Instrumentation Engineering (3) Physics. GATE scores will be used for shortlisting of candidates for interview. No written test will be conducted.	**---**	**11.5.2013 10.00 a.m.**
Ph. D.	**Chemistry**	34	M.Sc **OR** equivalent degree with at least 55% marks with JRF from a government funding agency like UGC, CSIR, DST, DBT/ DST INSPIRE / RGNF/MANF/ (Note: B.Tech, B.Pharm. etc., are also treated as equivalent to M.Sc for this purpose)	**---**	**7.5.2013 To 9.5.2013 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/ DST INSPIRE / RJNF/ MANF.	**---**	**7.5.2013 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	**26.2.2013 10.00 a.m.**	**8.5.2013 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.	**23.2.2013 2.00 p.m.**	**9.5.2013 10.00 a.m.**
Ph.D.	**Biotechnology**	09	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	**21.2.2013 10.00 a.m.**	**10.5.2013 10.00 a.m.**
Integra-ted 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	**21.2.2013 10.00 a.m.**	**11.5.2013 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, ICMR, DST INSPIRE, RGNF and MANF are eligible to apply.		**9.5.2013 10.00 a.m.**
Ph.D.	**ACRHEM:** **Physics** **Chemistry**	 6 1	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.	**22.2.2013 10.00 a.m.**	**10.5.2013 10.00 a.m.**
Ph.D.	**Cognitive Sciences**	03	Master's degree in any discipline in the Humanities or Social or Natural Sciences with at least 55% marks.	**21.2.2013 10.00 a.m.**	**10.5.2013 2.00 p.m.**

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
Ph. D.	**English**	08	M. Phil degree in the subject concerned or in an allied subject like Comparative Literature and Translation Studies or Language Studies or Cultural Studies and Master's degree in the subject concerned with at least 55% marks; **OR** Master's degree in the subject concerned or in an allied subject like Comparative Literature and Translation Studies or Language Studies or Cultural Studies 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.	**23.2.2013** **10.00 a.m.**	**9.5.2013** **10.00 a.m.**
Ph. D.	**Philosophy**	09	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 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.	**25.2.2013** **10.00 a.m.**	**8.5.2013** **10.00 a.m.**
Ph.D	**Telugu**	12	Same as above	**25.2.2013** **10.00 a.m.**	**8.5.2013** **10.00 a.m.**
Ph. D.	**Urdu**	14	Same as above	**22.2.2013** **10.00 a.m**	**8.5.2013** **10.00 a.m.**
Ph.D.	**Hindi**	14	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** 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.	**25.2.2013** **10.00 a.m.**	**8.5.2013** **10.00 a.m.**
Ph. D.	**Applied Linguistics**	08	M.A. in the subject concerned (with at least 55% marks or an equivalent grade) OR Master's degree in an allied subject and a Diploma in Linguistics/Applied Linguistics (with at least 60% marks or an equivalent grade or above) 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. Allied subjects include all language and literature disciplines, Philosophy, Anthropology, Sociology, Psychology, Computer Science, Mathematics	**21.2.2013** **2.00 p.m.**	**7.5.2013** **2.00 p.m.**
Ph. D.	**Translation Studies**	08	M.A. in any subject (with at least 55% marks or an equivalent grade) 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.	**23.2.2013** **2.00 p.m.**	**7.5.2013** **2.00 p.m.**

Ph.D.	**Compara-tive 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 recognized institute / university of higher learning **OR** qualified in UGC JRF/RGNF/MANF. The candidate must present documentary evidence of knowledge of at least two literatures/languages (one of which may be English). ***Note:*** *Related disciplines include English/Indian Languages/Literatures/ Liberal Arts/Social Sciences/Communication.*	**25.2.2013 2.00 p.m.**	**9.5.2013 10.00 a.m.**
Ph.D.	**Sanskrit Studies**	03	a) 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. b) B.A.M.S. with atleast 55% marks	**26.2.2013 10.00 a.m.**	**10.5.2013 10.00 a.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.	**22.2.2013 10.00 a.m.**	**10.5.2013 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 recognized 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.	**22.2.2013 10.00 a.m.**	**9.5.2013 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.	**21.2.2013 2.00 p.m.**	**8.5.2013 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.	**23.2.2013 10.00 a.m.**	**8.5.2013 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.	**25.2.2013 10.00 a.m.**	**8.5.2013 10.00 a.m.**
Ph. D.	**Sociology**	07	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	**26.2.2013 2.00 p.m.**	**8.5.2013 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.	**25.2.2013 10.00 a.m.**	**8.5.2013 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 or 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.	**22.2.2013 2.00 p.m.**	**9.5.2013 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.	**24.2.2013 10.00 a.m.**	**7.5.2013 10.00 a.m.**

Ph.D.	**Social Excl. Incl. Policy**	06	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. (*Allied subjects include Social Work, Media Studies, Management, Social Geography and Performing Arts)	**26.2.2013 10.00 a.m.**	**10.5.2013 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.	**24.2.2013 10.00 a.m.**	**9.5.2013 2.00 p.m.**
Ph.D.	**Science, Technology, and Society Studies**	02	An M.Phil degree in the area of social studies of science from the following disciplines: Sociology, Political Science, History, Economics, Anthropology and Philosophy. **Or** 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. **Or** 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. **Or** 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.	**24.2.2013 10.00 a.m.**	**10.5.2013 10.00 a.m.**
Ph.D.	**Human Rights**	02	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.)	**22.2.2013 10.00 a.m.**	**9.5.2013 10.00 a.m.**
Ph.D.	**Gandhian Economic Thought**	02	Postgraduate degree in any subject (with atleast 55% marks or Equivalent Grade points), AND any one of the following : M.Phil. (in any subject); **OR** UGC-JRF/RGNF/MANF qualification; **OR** three publications in recognized refereed journals OR 2 years teaching / research / administrative experience in a recognized institution of higher learning.	**24.2.2013 2.00 p.m..**	**10.5.2013 10.00 a.m.**
Ph.D.	**Dance**	03	Master's degree in Dance (with at least 55% marks or Equivalent Grade) OR Master's degree in any subject (with at least 60% marks or Equivalent Grade). **And any one of the following :** M.Phil. Degree in Dance or allied subjects OR UGC NET/JRF/RGNF/MANF qualification OR Two years of teaching/research experience in dance or allied subjects in a recognized institution of learning OR Three publications in the subject concerned in recognized refereed journals/reputed magazines/ web magazines OR Practical working experience in three productions after completing Master's programme.	**22.2.2013 10.00 a.m.**	**8.5.2013 10.00 a.m.**

Ph.D.	**Theatre Arts**	04	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 **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. **Note**: The concerned subjects are Theatre Arts.	**21.2.2013 2.00 p.m.**	**7.5.2013 2.00 p.m.**
Ph.D.	**Communication**	04	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. **Note:** The concerned subjects are Communication or Journalism.	**21.2.2013 2.00 p.m.**	**10.5.2013 2.00 p.m.**
Ph.D	**Management Studies**	12	With at least 55% marks in Master's degree or its equivalent in Management or Commerce or Accounting (MBA, M.Com, C.A, ICWA)	**25.2.2013 2.00 p.m.**	**9.5.2013 10.00 a.m.**
Ph.D.	**Materials Engineering**	04	M.E./M.Tech. or equivalent Master's degree in Metallurgy, Mechanical (Production/Manufacturing Engineering), Materials 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. Selection process is through a written test followed by interview of short-listed candidates. ***Candidates should have at least 60% marks in the respective qualifying exam***.	**24.2.2013 2.00 p.m.**	**9.5.2013 10.00 a.m.**
Ph.D.	**Nano Science & Technology**	02	M.E./M.Tech. or equivalent Master's degree in Metallurgy, Mechanical (Production /Manufacturing Engineering), Materials 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/Nano Science & Technology, Nanotechnology **OR** Bachelor's degree in Engineering/Technology in any of the above disciplines. Selection process is through a written test followed by interview of short-listed candidates. ***Candidates should have at least 60% marks in the respective qualifying examinations.***	**24.2.2013 10.00 a.m.**	**10.5.2013 10.00 a.m.**
Ph.D.	**Earth and Space Sciences**	06	Master's degree in Earth / Ocean / Atmospheric Sciences, Remote Sensing, or a closely related area with atleast 55% marks	**23.2.2013 2.00 p.m.**	**8.5.2013 10.00 a.m.**
Ph.D.	**Psychology**	07	Qualification in UGC JRF/RGNF/MANF exam in Psychology or Post Graduation Degree in Psychology with atleast 55% marks	**23.2.2013 10.00 a.m.**	**9.5.2013 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.	**23.2.2013 2.00 p.m.**	**10.5.2013 2.00 p.m.**

Note: 1. The approved intake for Ph.D. is expected to be filled over three sessions in June/July 2013, October 2013 and January 2014. Therefore, all the seats need not necessarily be filled in June/July 2013 alone.

2. Candidates possessing M.Phil. or M.Tech. or UGC-NET for lectureship alone should also appear for the written test as they are not exempted from written test for admission to Ph.D. programmes.

3
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. 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.

Those candidates who have a UGC-CSIR/NBHM fellowship are eligible to apply for a Ph.D. program and the selection is based on their performance in the interview. These candidates will be given a weightage of 40 marks out of 75 for the fellowship holders.

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

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)

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

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

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

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

Associate Professors

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

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

S. Ilangovan, Ph.D. (TIFR, Mumbai) - Lie Algebras and Representation Theory

Assistant Professors

Saroj Panigrahi, Ph.D. (Berhampur) – Differential Equations

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 Professors

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

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

Adjunct Professor

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

DEPARTMENT OF COMPUTER & INFORMATION SCIENCES

The Department of Computer & Information Sciences (DCIS) offers programmes for post-graduate study and research in all major areas of Computing, Information Science and Artificial Intelligence. The department is unique in offering M.Tech. Programmes in Artificial Intelligence (since 1987), and in Information Technology with specialization in Banking Technology and Information

Security (since 2001). The faculty actively pursue research in several areas that include Computer Networks and Distributed Processing, Parallel & Grid Computing. Software Engineering, Mobile Computing, Logic, Cryptography, Network Forensics, Computer and Network Security, Geographical Information Systems, Data Warehousing and Data Mining, Bioinformatics, Artificial Intelligence, Machine Learning, Cognition, Natural Language Engineering, Speech Processing, Image Processing, Pattern Recognition, Vision, etc.

DCIS has been recognized by several funding agencies. Recently, 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. The Department of Science and Technology (DST), Government of India has recognized the research contributions of the department by funding it under FIST and PURSE programmes.

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. DCIS 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,

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.*

All admitted students are advised to attend the department orientation programme which is conducted on the first day of the semester for all the new students of MCA 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, 5-year Integrated M.A. and M.Sc. 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 had been 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) : This is meant for graduates in engineering disciplines and 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) This programme offers core courses of computer science like Operating Systems, Computer Architecture, Algorithms, Software Engineering at an advanced level. Specialized electives of faculty research interest are offered as electives. The course work develops scientific and mathematical approach to computing.

M.Tech. (Artificial Intelligence) This 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, Computational Intelligence etc. The projects are offered in major areas of artificial intelligence.

M.Tech. (Information Technology) 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 M.Tech. admission in 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 TOFEL/ELTS scores are to be submitted at the time of admission

Entrance examination

MCA Program: This course requires a prerequisite of full papers in Mathematics at least at the plus two level. The 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 is 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 of seats only upto 15.7.2013.

Ph.D. Programme: Admission is based on a written test with ***all objective type*** questions. The written test is for a total of 75 marks. The written test covers the areas of Technical Comprehension, Computer Organisation, Computer Programming, Discrete Mathematics, Data Structures, Algorithms, Operating Systems, Database Management Systems, Graph Theory, Computer Networks, Automata. 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. 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 1 year from the date of admission. Initial admission is provisional and subject to candidate passing the comprehensive examination. In case a candidate is unable to pass the comprehensive exam within 1 year and 1 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. Comprehensive exam is usually conducted 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 recent Multi-Core Processor based Multi-Media personal computers with high resolution graphics cards, network support and cluster systems. 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, 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.

Hrushikesha 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 Synthesis, Speech Recognition, Spoken Dialog Systems, 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

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

Associate Professors

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.

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

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

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

N.J.Rajaram, Ph.D (IIT Bombay)- Reliable Computing, Software Engineering, Software Project Management, Software Quality Assurance, , Fault Tolerant Systems, Quantitative Techniques, IT Strategy and Mobile Payments.

Assistant Professors

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

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

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

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 (Study Leave)

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.

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

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

B.M. Mehtre, Ph.D (IIT,Kharagpur) – Information Security, Biometrics, Pattern Recognition, Image processing

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

M.V. Sivakumaran, MBA (IGNOU) - CRM, Internet Technology, Total Branch Automation Packages.

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

G.R.Gangadharan, Ph.D (University of Trento, Italy) Internet Technologies, Information and communication.

Shakti Mishra, Ph D. (NIT, Allahabad) - Distributed Computing, Formal Methods

Rajarshi Pal, Ph D (IIT Kharagpur) - Visual Attention, Image Watermarking, Steganography, Videos Summarization

Visiting Professors

Raj Kumar Buyya, University of Melbourne, Australia.

Andre Rossi, Lab-STICC, Universite de Bretangne-Sud, France

Richard Booth, University of Luxembourg, Individual & Collective Reasoning, Luxembourg.

Chattrakul Sombattheera, Mahasarakham University, Thailand.

Sheela Ramanna, University of Winnipeg, 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 recog-nition 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 Tc 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. S.P. Tewari 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 inter-disciplinary 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 quailifications 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.

For admission to **M.Tech. in Computational Techniques,** a separate written test will be based on the typical M.Sc. syllabi of Indian Universities i.e. Classical Mechanics, Relativity, Thermodynamics and Statistical Mechanics, Electromagnetic Theory, Quantum Mechanics, Modern Physics, Solid State Physics, Electronics, Complex Numbers and Integration, Matrices, Calculus and Differential Equations, plus computer related questions. The examination will consist of objective type questions. The written test will be followed by an interview for the short listed candidates.

The admission to **Ph.D.** in Electronics Science wil be confined to the CSIR-UGC NET qualified candidates for JRF in Physics or Electronics or the candidates with GATE scores in Physics/ECE during 2010, 2011, 2012, 2013. The shortlisted candidates will be required to appear for an interview.

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, scriber, 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)

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)

S. P. Tewari, Ph.D. (Delhi) - Quantum Optics, Nonlinear Optics (T) **(Dean of the School)**

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) - 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)

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)

Associate Professors

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

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

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

Readers

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) – NASI Senior Scientist Platinum Jubilee Fellow

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) – CSIR Emeritus Scientist

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

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

Associate Professors

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

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

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 and Bioinformatics

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-ordiantor 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 details of the **courses and the syllabus** for the M.Sc. programme is available on the university website : (**http://www.uohyd.ac.in/index.php/academics/2011-10-27-18-38-04/school-of-life-sciences/dept-biochemistry**).

The admission of the studetns to the M.Sc. course is based on a written test that 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. Under the IRTG-MCGS program there is active exchange of Ph.D. students between HCU and University of Muenster. At present, the Department carries out research in the areas of Gene Expression, DNA-repair, Telomere Biology, Epigenetics, Cellular Signalling, Survival and Death; Immunology, Molecular Biophysics, Bioenergetics, Protein Biochemistry, Molecular Virology, Molecular Parasitology, 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 University website for 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 has on an average of 4-5 years of post doctoral research experience in the most prestigious Universities and institutes from abroad prior to joining the Department. The faculty has been publishing their work in long standing core journals of Biochemistry, Biophysics, Genetics, Cell Biology, and Glycobiology of International repute. 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, Flow cytometry, several deep freezers, CO2 incubators, Flourescence and Confocal microscopy, Bioplex, Spectrophotometrs, 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 radicles 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 targetting proteins (**Coordinator of Indo-German Research Training Group (IRTG) in Molecular and Cellular Glycosciences**)

Associate Professors

Mrinal Kanti Bhattacharyya, Ph.D (TIFR): DNA-Repair, Recombination, Epigenetics and gene silencing, Telomere biology, Molecutlar parasitoloy

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.

Reader

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

Assistant Professors

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

Joint Faculty

AnandK Kondapi, Ph.D. (AU) – Molecular Therapeutics, Functional characterization of DNA Topoisomerases in oncogenesis, HIV infection, neuroimmune activity and brain aging (Professor in Dept. of Biotechnology)

S. Rajagopal, Ph.D. (SVU) – Plant Biochemistry, Proteomics, Bioenergy, Protein-drug interactions and Molecular dynacis (Reader in Dept. of Plant Sciences)

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 stregthen 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 Molecualr 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 Deparatment)**

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

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

Readers

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 PhD 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 PhD 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 the first two semesters and applied subjects (elective courses) in the third and fourth semesters. The core courses lays strong foundation in fundamentals of Cell Biology, Molecular Biology, Genetics, Biochemistry, Microbiology, Immunology and Developmental Biology, Heterologus expression and downstream processing. The elective courses, offered in the third and fourth semesters include Infection Biology, Aquaculture: Nutraceuticals and Pharmaceutical Applications, Cancer Biology, Cellular and Molecular Neurosciences, Blood cell development & disease, Vaccinology, Epigenetics and 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 laboratory 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. Half-yearly presentation of the work completed is monitored by a Doctoral Committee consisting of three members, including the PhD supervisor. The total duration of the entire program is approximately 4 - 5 years.

Entrance examinations

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, ultra-centrifuges, flow cytometer, spectrofluorimeter, 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 the 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

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).

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

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

Balasubramanian Senthilkumaran, M. Phil., Ph.D. (BHU) – Fish Molecular Endocrinology and Reproductive Biology, Molecular mechanisms of sex differentiation and Developmental biology of fishes, Neuroendocrinology **(Head of the Department).**

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

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

Associate Professor

Anita Jagota, Ph.D. (JNU) – Neurobiology, Neuro-degeneration, Brain Aging, Neuro-pharmacology, Molecular Chronobiology, Cellular and Molecular Mechanisms underlying postembryonic Neural development.

Reader

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-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.

Department of Biotechnology and Bioinformatics

The Department 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 research in the frontier areas of biology such as Behavioral Neurobiology, biophysics, molecular therapeutics, stem cell therapy, Immunology biology of HIV, HCV, plasmodium, dengue and chukun gunia viruses and cancer, molecular aspects of neuro chemistry, neuro denegenerative diseases, molecular aspects of chaperone functions, molecular insights into adaptation of chronic pathogens and functional genomics, innate antiviral immunity, The thrust area in which the research in Department focus is "Molecular therapeutics for infectious and neurodegenerative diseases."

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:

Dr. Madhuchhanda Bhattacharjee – Bio Statistics, Statistical Bioinformatics and Statistical genetics (Department of Mathematics and Statistics, MCIS)

Prof. M.J.Swamy – Biophysical Chemistry (School of Chemistry)

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

Dr.Y.V. Subba Rao – Cryptography, Theory of Computation, DBMS, Data Forensics (Department of Computer and Inforamtion Sciences, DCIS).

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 or C.R. Rao Institutes.

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 5 years extendable upto a maximum of 7 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)

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.

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)**

Associate Professor

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

Readers

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 cynobacterial 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.

G.B Madhu Babu, Ph.D. (Max-Planck Institute for Biophysical Chemistry, Goettingen, Germany) – Behavioral Neuroscience and neurodegenerative diseases

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

Paramananda Saikia, Ph.D. (IISc, Bangalore) – Interferan signaling, Innate antiviral immunity

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
14. Centre for Buddhist Studies

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.

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 has the following components :

Section A Multiple Choice Questions 50 Marks

This part will include questions and exercises in comprehension, language and general literary awareness.

Section B Discursive Questions

In this part the candidates need to write :
(i) an essay of not more than 4 pages (20 Marks) and

(ii) write a critical commentary on a given excerpt worth (30 amrks)

M.Phil. Entrance Examination has the following components :

Section A: Multiple Choice Questions (50 Marks)

This part will include questions and exercises in comprehension, language and genereal literary awareness.

Section B: Discursive Questions (25 Marks)

In this part the candidates need to write a critical essay on a topic **OR** a critical commentary on a given passage.

In addition, there is an Oral Test for 25% marks for short-listed candidates. For examining their research aptitude, at the interview, the candidate will be examined on :

i. Research Proposal: quality, innovativeness, methodology
ii. Language skills
iii. Literature Review
iv. Argumentation (in the proposal and at the interview)
v. Knowledge of primary sources

Ph.D. Entrance Examination has the following components:

Section A: Multiple Choice Questions (50 Marks)

This part will include questions and exercises in comprehension, language and genereal literary awareness.

Section B: Discursive Questions (25 Marks)

In this part the candidates need to write a critical essay on a topic **OR** a critical commentary on a given passage.

In addition, there is an Oral Test for 25% marks for short-listed candidates. For examining their research aptitude, at the interview, the candidate will be examined on :

i. Research Proposal: quality, innovativeness, methodology
ii. Language skills
iii. Literature Review
iv. Argumentation (in the proposal and at the interview)
v. Knowledge of primary sources

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

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 **(on sabbatical leave)**.

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 **(on EOL).**

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

Readers

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 **(Head of the Department)**

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.

Joint Faculty

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

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 after completing atleast two semesters of course work. 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 **(Dean of the School)**

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. 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 (B.A. Standard) 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 to be done on **OMR Sheet.**

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

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.

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

Garima Srivastava, Ph.D. (Delhi) – Navajagaran (Renaissance) literature, Sociological Approach to Literature, Gynocriticism, Women and Marginalized studies.

Associate Professors

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

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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. The Ph.D. 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.

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.

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 **(Head of the Department)**

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 **(Coordinator, Centre for Classical Language – Telugu)**

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

G. Aruna Kumari, M.A. (Telugu) M.A. (Sanskrit) M.A. (Philosophy) (Osmania); Ph.D. (Hyderabad). D.Litt. 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, 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, Translation and Dialectology.

B. Bhujanga Reddy, M.A., M.Phil. Telugu(UoH), M.A. (Applied Linguistics), Ph.D Linguisitcs (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. will be consists of three parts; Part 'A' and Part 'B' and Part 'C'. For M.A. the question paper will consists of objective type questions for 25 marks under Part 'A', two essay type questions for 50 marks under Part B and 25 marks for one question exclusively on Urdu poetry under Part 'C'. The objective questions are designed to test candidate's knowledge at appropriate level i.e., B.A. level. Two questions of essay type are to test the explanatory/descriptive ability of the candidate in Urdu language/literature and general topics. The question on poetry is to determine the candidate's capacity for understanding and explaining various genres of poetry such as copulates from Urdu ghazal, Nazam, Rubai, Qata and others.

The examinations of M.Phil. and Ph.D. will be based on the M.A. and M.Phil. syllabus respectively. The question paper for both the examinations, will consists of objective type questions for 50 marks under Part A, which is to be answered on OMR sheet, two short questions, out of four for 10 marks; each for 5 marks under Part B and under Part

C, one essay type of question, out of two for 15 marks will have to be answered.

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

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. **(Head of the Department)**

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), Development of Indradhanush: An Integrated WordNet for Oriya, Shallow Parsser Tools for Indian Languages (SPTIL-Hindi and Odia) and Indian Languages Corpora Initiative – Phase II (ILCI) 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. CALTS has been evaluated and rated as **"Centre of Excellence"** among 32 important institutions in the country by the Research Council of United Kingdom.

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 four papers in the 1st semester and a dissertation in the 2nd semester. There are four papers to enable students from Literature, Linguistics and other backgrounds to pursue their interests in Translation Studies. 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. There is a course-work for the selected candidates and 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) this course work 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 2013 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 -- General Aptitude for Literature & Theory of Translation -- 30 marks
Section – B -- Practical Translation & Language Aptitude -- 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, Semantics, 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 Temsen, 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. The Centre offers **M.A.**, **M.Phil.** and **Ph.D.** programmes which encourage a study of archives of knowledge in order to develop a critical awareness of various socio-political and cultural discourses.

Programmes of Study:

The **M.A.** in Comparative Literature is a four-semester programme and each semester carries 18 credits. There is continuous evaluation followed by semester-end examinations. The third / fourth semesters allow a choice of elective/optional courses and prepare the student for writing a research-oriented dissertation in the fourth semester. While the programme traces the history of the discipline and the development of methodologies, it also emphasizes Translation Studies and Cultural Studies as tools to engage with literatures and cultures.

The **M.Phil.** in Comparative Literature is a two-semester programme, including course-work and dissertation. The first semester course-work, of compulsory/elective/optional courses for 16 credits, has continuous evaluation and a semester-end examination on the courses studied. By the end of the second semester, the student is required to submit a dissertation, written under faculty guidance on an approved topic, as per the rules and regulations of the Centre/University.

The **Ph.D.** in Comparative Literature extends over a minimum period of two years. The nature of the programme is decided by the student in consultation with faculty, but the requirements invariably include course-work comprising 16 credits over a minimum of 2 semesters or a maximum of 4 semesters and a thesis on an approved topic under faculty supervision.

Medium of Instruction:

Applicants should note that the medium of instruction in the Centre is English, and, hence, should ensure that they have a good knowledge of English to follow the lectures and actively participate in curricular activities.

Entrance Examination:

The entrance examination for **M.A.** will carry **100 marks**, comprising questions of objective type (**75 marks)** and of essay type and/or translation of a passage from English to an Indian language (**25 marks**).

The entrance examination for **M.Phil. / Ph.D.** will carry **75 marks** and consists of two parts: Part 'A' and Part 'B.' **Part 'A'** (**50 marks**) are objective type questions that will test the candidate's knowledge of Indian / world literatures, comparative / literary / cultural theory as well as analytical abilities. **Part 'B'** (**25 marks**) will consist of short notes and/or essay type questions on literary cultures/critical concepts/contemporary trends/movements and/or translation of a passage from English to an Indian language.

Applicants for the **M.Phil.** programme must submit along with the application a brief description (about **500 words**) of their proposed topic of research. Applicants for **Ph.D.** admission must submit along with the application a brief description (about **750 words**) of their proposed topic of research and evidence of submission of M.Phil. / M.Litt. dissertation as well as copies of any published books/papers. Applications unaccompanied by these enclosures may not be considered.

Short-listed **M.Phil. / Ph.D.** candidates have to appear for an interview (**25 marks**) on dates notified by the Centre/University.

Website: www.ccluoh.in

Email: ccl@uohyd.ernet.in, ccluoh@gmail.com, ccluoh@ymail.com

FACULTY

Professors

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

M.T. Ansari, Ph.D. (EFLU, Hyderabad) – Cultural Studies; Critical Theory; Kerala Studies; Minority Studies. (**Director**)

Assistant Professors

Sowmya Dechamma C.C., Ph.D. (University of Hyderabad) – Gender and Ecological Studies; Indian Literary Studies; 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:

a) To build bridges between the Ancient Indian knowledge systems and the current knowledge systems.

b) To explore Ancient Sciences and Technologies with a modern perspective to build alternate viable systems for the future.

c) To collect, preserve, and maintain the manuscripts dealing with Ancient Indian Sciences and Technology.

d) 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:

1. 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.
2. Minimum marks for passing in any course is 50%.
3. In case a candidate is unable to pass in all the 4 courses within 2 years, his/her admission stands automatically cancelled.
4. 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 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 vykarana/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 on the topic of specialization. Student interested in pursuing research in Ayurveda will answer questions related to Ayurveda discipline and those interested in pursuing research in Language Technologies will answer questions from Vyakarana, linguistics, NLP, Computational linguistics and Navya Nyaya.

Faculty

Associate Professor

Amba P 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 offers MPhil and PhD programmes in English Language Studies.

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 questions 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 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, Sociolinguistics, 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 teaching, research and 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 two semesters the candidate will be offered four courses with 04 credits each, the fourth course being a practical course. After completion of the First semester, the student will be required to write a thesis on an approved topic 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 50 marks on objective questions on the History of Hindi language and Literature, Indian Dalit & Adivasi Literature and Translation AND 25 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 50 marks on objective questions on the History of Hindi Language and Literature, Indian Indian Dalit & Adivasi Literature and Translation AND 25 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**)

Joint Faculty

Dr. M. Shyam Rao

Dr. Bhim Singh

Centre for Buddhist Studies

Centre for Buddhist Studies, established on August 8, 2009 as a 'Stand Alone Centre', is an exemplification of the university's magnanimous vision that affirms the *raison d'être* for its creation and affirms the specific requirements of the subject with its interdisciplinary and highly technical and specialized character that demands greater attention and autonomy for its growth. The centre is first of its kind not only in South India but in the entire country for its objectives to conform to all international standards in Buddhist researches and teachings with focus on Original Buddhism based on the primary sources in Pali. The centre has also received the grant from UGC under the Epoch Making Social Thinkers of India Project.

The centre functions under the guidance of an Advisory Board of eminent scholars and educationists, viz., Professor Namwar Singh, Emeritus Professor, Jawaharlal Nehru University, Professor Bhikshu Satyapala, Head, Department of Buddhist Studies, University of Delhi, Professor Bimalendra Kumar, Head, Department of Pali & Buddhist Studies, Banares Hindu University, Professor Baidyanath Labh, formerly Head, Department of Buddhist Studies, University of Jammu, Professor Asha Mukherjee, ex-chair, Department of Philosophy & Religion, Vishwa Bharati, Santiniketan as external members; and the Deans of School of Social Sciences, School of Humanities, and School of Management Studies of University of Hyderabad as the internal members. The Vice-Chancellor is the Chairman of the Advisory Board; and Dr K.S. Prasad, Associate Professor, Department of Philosophy is the Cooridnator of the Centre and also the ex-officio Member Secretary of the Board.

Further, the university has entered into a memorandum of understanding with Sitagu International Buddhist Academy, Myanmar to promote its teaching programmes.

Programmes of Study

The centre has introduced Ph.D. programme in Buddhist Studies since July 2010. The admitted candidates are required to pass the compulsory course works comprising four papers, each being a 4-credit course vide the guidelines of UGC, which is prerequisite for submission of the thesis for examination on a topic of prior approval from the Supervisor(s) appointed by the School. The Ph.D. examination is conducted as per the university rules.

As of now 50% of the students registered for Ph.D. in Buddhist Studies are from overseas. **No fresh admissions will be taken by the Centre from 2013-14 onwards.**

Dr. K.S. Prasad, Associate Professor, Department of Philosophy is the **Coordinator** of the Centre.

School of Social Sciences

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

Departments

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

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 Anthropology and History 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. The Centre for Folk Culture Studies has an Audi Visual Archival for the Centre's field work, documentation films etc. The Centre for the Study of Indian Diaspora has a special library consisting of Historical material (Diasporic literature) collected from different parts of India. All the Departments are equipped with internet facilities.

From the Academic Year 2007-2008 the School of 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. Aloka Parasher Sen, Department of History is the Dean of the School.

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 **(Dean of the School)**

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

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 Chandenagore, Department of Higher Education, Hooghly, West Bengal)

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

Readers

Y. Swarupa R Shankar, Ph.D (Hyderabad) – Modern Indian History, Social and Cultural History of South India, Women's History and Historiography. (Study leave from 01.07.2012 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. (on EOL from 15.8.2012 for one year)

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 completed Special Assistance Programme (DSA-III) on the thrust area **Globalization, State, Civil Society and Governance Interface**. Started in 1979, the Department now has 23 Faculty positions and has approximately 280 students. 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. 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 frontier areas like Dalit Politics, Women's Movements, Policy Studies and Indian Political Thought in depth.

The **M.Phil.** Programme is for two semesters only. The students are required to devote the first semester to coursework 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 for interview for the selection of Ph.D candidates.*

Entrance Examination

M.A.: The written test for admission to **M.A.** Political Science consists of 100 questions of multiple-choice type (1 mark each) that test the general knowledge, subject specific knowledge, and passage comprehension ability of the candidate. The candidate must answer in the OMR sheet.

M.Phil.: The written test for **M.Phil** programme consists of Two parts. Part A consists of multiple choice questions for 50 marks (1 mark each) and Part B consists of 5 essay type questions out of which the candidates are expected to answer any two questions (for 25 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 exemption to JRFs and other Fellowship holders as per the UGC Rules.

Ph.D.: The written examination for Ph.D. programme will have two parts. Part A consists of 50 multiple choice questions of 1 mark each (50 marks). Part B consists of essay questions (25 marks) and the interview will have 25 marks. Part B (essay questions) consists of 2 sections. Section-I deals with Research Methodology questions. In this section students will be expected to answer 1 (12.5 marks) out of 2 questions. Section-II will have 1 question each from 5 sub-disciplines of Political Theory, International Relations, Comparative Politics, Indian Government and Politics and Public Policy /Administration. In this section, candidates are expected to answer 1 out of 5 questions (12.5 marks).

Faculty

Professors

Rajendra Govind Harshe, Ph.D.(JNU) – International Relations, Comparative and Area Studies with reference to Afro Asia and Political Theory. (On EOL till 26.07.2014)

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. (On EOL till 04.12.2014)

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. (Sabbatical leave
till 30.06.2013)

Arun Kumar Patnaik, Ph.D. (JNU) – Political Theory, Political Economy of Development. (**Head of the Department)**

G.Sudarshanam, Ph.D. (Kakatiya) – Public Administration, Public Policy, Rural Development.

Md.Moazzam Ali, Ph.D. (JNU) - International Relations, Russian studies, The European Union, Foreign Policy studies, Modern Ideologies

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

Vasanthi Srinivasan, Ph.D. (Ottawa) – Political Philosophy, Comparative Politics.

Associate Professors

Sanjay Palshikar, Ph.D. (Poona) - Political Theory, Indian Political Process

B. Chandrasekhara Rao, M.A. (Andhra), (Dip. In Strategic Studies) - Comparative Government and Politics, Indian Government and Politics, Chinese Studies, Dalit 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.

H Kham Khan Suan, Ph.D. (JNU)
Government and politics in India, Comparative federalism, Citizenship studies, ethno nationalism, multiculturalism, border
Land studies and Politics and society in Northeast India
(On EOL till 12.09.2013)

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 (On Study leave till 30.06.2013)

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 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 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.

The **M.A.** programme in Sociology is a four semester programme spread over two years, and consists of ten compulsory courses and six optional courses. Both the compulsory and optional courses are of four credits each. Students are allowed to take up to three of the six optional courses from other departments, subject to the permission of the Head of the Department.

The Compulsory courses for M.A. are the following : Classical Sociological Theory; Research Methods I: Survey Research and Basic Statistics; Sociology of India; Population and Society; Modern Sociological Theory; Research Methods II: Qualitative Research Methods; Social Stratification; Urban Sociology; Sociology of Development; and Political Sociology.

The Optional courses for M.A. are the following: NGOs and Development; Environment and Sustainable Development; Indian Diaspora; Sociology of Gender; Sociology of Health, Sickness and Healing; Rural Society and Agrarian Change; Sociology of Backward Classes; Religion, Law and State; People, Nation and State; Law, State and Society; Industrial Relations and Contemporary Capitalism; Science, Culture and Society; Technology, Culture and Society; Sociology of Communication; Sociology of Organisations; Sociology of Culture; Modernity and Modernisation; Decentralised Governance and Development; Sociology of Muslim Communities; Social Theories, Modernities and Politics of Geography and Society & Sexuality. The offering of these courses are

subject to the teachers' concerned. The contents of most of these courses are available on the University Website.

The **M.Phil**. programme is a preliminary research degree course of two semester duration. The course work during the first semester consists of two compulsory courses in Advanced Sociological Theories and Research Methodology, and one optional course generally in the broad area of research in which the dissertation is planned. The M.Phil. dissertation is expected to be completed by the end of the second semester.

The **Ph.D**. programme is a full time research programme over a minimum period of two years. The examination pattern of Ph.D. course includes thesis evaluation and an open house Viva Voce examination. The progress of the research candidate is monitored by a Doctoral Committee convened and authorized by the respective supervisors.

Entrance Examination

The **M.A.** entrance examination will be OMR based completely. The components of entrance examination question paper will be Comprehension 30 marks; Arithmetic & reasoning 25 marks; Literacy passage 20 marks; and Current Affairs 25 marks.

The **M.Phil**. entrance written test will be partly based on objective type OMR questions (40 marks) and partly on substantive writing (35 marks). The entrance test and interview (25 marks) will be based on M.A. level sociological theory and methods, both in the wider context of the discipline and in the specific context of India. The weightage in the written test is 75 marks and interview will be 25 marks.

The **Ph.D.**. entrance written test will be partly based on objective type OMR questions (40 marks) and partly on substantive writing (35 marks). The written test will examine candidate's knowledge of sociological theory and methods. Ph.D. candidates will be interviewed on the general area of specialization proposed by the student and their M.Phil. work. Ph.D. candidates may be required to undertake course work, if recommended by the Department. The candidate seeking admission to the Ph.D. programme must submit, with their application, an outline of their research proposal bringing out specific theoretical and methodological approaches to be employed. The weightage in the written test is 75 marks and interview will be 25 marks.

Faculty

Professors

E.Haribabu, Ph.D.(I.I.T., Bombay) – Sociology of Science and Technology

Sasheej Hegde, Ph.D. (Bangalore) – Philosophy of Social Science, Social and Political Theory, Law and Ethics, Indian Sociology/Historiography

Vinod K. Jairath, D.Phil. (Univ. of Sussex, U.K.) – Sociology of Development, Sociology of Muslim Communities

Sujata Patel, Ph.D. (J.N.U.) – Social Theory, Urban Sociology, and Political Sociology

K. Laxmi Narayan, Ph.D. (Mysore) – Urban Sociology, Social Demography, and Indian Diaspora (**Head of the Department**)

Aparna Rayaprol, Ph.D. (Pittsburgh) – Sociology of Gender, Indian Diaspora, Urban Sociology, and Qualitative Research Methods.

Readers

N. Purendra Prasad, Ph.D. (Hyderabad) – Agrarian Studies, Sociology of Health, and Sociology of Development.

C. Raghava Reddy, Ph.D. (Hyderabad) – Science and Technology Studies, Sociology of Organisations and Sociology of Disability.

Nagaraju Gundimeda, Ph.D. (Hyderabad) – Sociology of Education and Information Technology and Society.

Pushpesh Kumar, Ph.D. (Delhi) – Sociology of Gender and Sexuality; Globalisation and Social change.

Assistant Professors

V. Janardhan, Ph.D. (Hyderabad) – Sociology of Industrial Relations; Corporate Business and Society; Sociology of Culture and Sociological Theory.

Satyapriya Rout, Ph.D. (Mysore) – Sociology of Environment, Natural Resource Management and Development and Decentralized Governance.

N. Annavaram, (M.Phil. (JNU) - Indian Classical Sociological Thought

Hoineilhing Sithou, M.Phil. (JNU) – Religion, Culture and Tribal Studies.

Department of Anthropology

The Department of Anthropology started functioning from the academic year 1988-89. It imparts training both theoretical and applied research in Anthropology, which equips students to meet the academic challenges in urban/ rural/tribal field studies. Apart from studying ethnographic diversity, the department is oriented towards application of anthropological knowledge to the understanding of social problems and development issues. The department has developed a small museum as a teaching aid for students. Practical training is compulsory in Physical and Archaeological anthropology courses.

Programmes of study

The Department offers M.A., M.Phil. and Ph.D. programmes in Anthropology (Social/Cultural).

The **M.A.** course is a two-year programme consisting of a total 16 courses of 4 credits each spread over four semesters with four courses per semester. Of them, 11 are compulsory courses and the remaining 5 are optional courses. The compulsory courses are:

1. Introduction to Social Anthropology
2. Physical Anthropology
3. Archaeological Anthropology
4. Quantitive Research Methods
5. Qualitative Research Methods
6. Theories of Culture
7. Theories of Social Structure
8. Applied Anthropology and Tribal Welfare
9. Indian Society
10. Anthropology of Complex Societies
11. Fieldwork Dissertation and Viva-Voce

The Department offers optional courses in Development Anthropology, Ecological Anthropology, Medical Anthropology, Peasant Society, Economic Anthropology, Anthropology of Communication, Anthropological Linguistics, Natural Resource Management and Livelihood Systems, Kinship and Marriage, Anthropology of Religion, Business Anthropology, etc. The students are permitted to opt for some inter-disciplinary courses from other departments and schools in consultation with the department.

Fieldwork is an important component of the compulsory courses. The students must conduct fieldwork on allotted topic for a period of about one month under the direct supervision of faculty in the field area identified by the department and submit a dissertation for Viva-voce examination. This fieldwork is usually conducted during the winter vacation at the end of the third semester. This course is largely subsidised by the University and the students have to pay Rs.250/- towards nominal fieldwork fees during the concerned semester.

The **M.Phil.** programme is for two semesters. The first semester is devoted for course work consisting of two compulsory courses of 4 credits each, viz., 1) Advanced Anthropological Theories and 2) Advanced Research Methods, and one optional course of 4 credits, generally in the broad area of research on which the dissertation is planned. The second semester is devoted for preparation and submission of M.Phil. Dissertation.

The **Ph.D.** is a full-fledged research programme on an approved research topic for a minimum period of two years. There is provision for admitting limited number of part-time Ph.D. students also. A duly constituted Research Committee for each student monitors the progress every semester. Based on the Report of the Research/ Doctoral Committee, the registration of the candidate for next semester will be recommended.

Entrance Examination

The written test for admission into **M.A.** degree course consists of two parts viz., Part 'A' and Part 'B'. Part 'A' consists of objective type of questions for 25 marks. There is negative marking of 0.33 marks for each wrong answer for Part 'A' questions. Part 'B' consists of essay and précis writing, comprehension and analysis of statistical data.

The written test for **M.Phil.** admission is based on P.G. level Anthropological theory, method and Indian ethnography, and consists of objective type of questions in Part 'A' and short notes and critical essay writing in Part 'B'.

The written test for **Ph.D.** is on the same lines as M.Phil. Candidates for Ph.D. will be interviewed on the general theoretical area of specialization proposed by the concerned student, and his/ her M.Phil., if any. Candidates must submit along with their application, a tentative, but a detailed research proposal on the proposed research topic covering review of literature, objective of study, research methodology and design of the study.

Faculty

Professors

K.K.Misra, Ph.D. (Utkal) – Culture and Environment, Anthropological Thought; Language, Culture and Cognition. Theory in Anthropology (on deputation as Director, IGRMS, Bhopal up to 31-3-2013)

P.Venkata Rao, Ph.D.(Andhra) – Anthropology of Development, Economic Anthropology, Tribal Studies, Complex Societies, and Ageing.

N.Sudhakar Rao, Ph.D.(Rochester) – South Asian Social Systems, Kinship Studies, Indian Society and Ideology, Anthropology of Communication.

R.Siva Prasad, Ph.D. (Mysore) – Social Stratification, Social Mobility and Social Change; Urban Anthropology; Ecology and Environment, Peasant studies, Anthropology of Development, Anthropological Theory. **(Head of the Department)**

B.V.Sharma, Ph.D. (Hyderabad) – Medical Anthropology; Development and Action Anthropology. **(Dean, Studetns' Welfare)**

Readers

George Tharakan C, Ph.D. (Hyderabad) – Kinship and Marriage, Theories of Culture, Indian Society.

M. Romesh Singh, Ph.D. (Hyderabad) – Business Anthropology and Tribal Development Studies.

Assistant Professor

Shaik Abdul Munaf, M.Sc. (SVU) – Archaeological Anthropology, Ethnoarchaeology, Indian Prehistory.

Centre for Regional Studies

The Centre for Regional Studies aims at conducting multi-disciplinary research in the Deccan and other regions of India. The envisaged research programmes encompass ecological and environmental studies; socio-economic history, regional historical processes; regional social structure; regional economics and development studies. In view of the multidisciplinary nature of research, the Centre promotes studies in the fields of geography, cultural anthropology, sociology, economics, political science, archaeology and socio-economic history of different regions in India.

The Centre for Regional Studies offers **M.Phil**. and **Ph.D.** programmes in the broad areas of research outlined above. The entrance test (written) for admission to **M.Phil**. and **Ph.D**. programmes consists of two parts. **Part -A** of the question paper will consist of objective type questions to test the aptitude of the candidates to pursue the research in the Centre. **Part-B consist of a single paper with questions drawn from the Social Sciences of the post-graduate level. (Please note the change in Part – B : there will NOT be separate Question papers in the disciplines of Anthropology, Economics, Geography, History, Political Science and Sociology in the Entrance Exam)**. In their answers students are expected to demonstrate an understanding of multidisciplinary and/or regional studies.

Faculty

Professor

Sheela Prasad, Ph.D. (JNU) - Urban and Regional Geography, Health, Environmental Studies. **(Head of the Centre)**

Associate Professor

Arvind S. Susarla, Ph.D. (Clark University) – Geography of Hazards and Disasters, Environmental Studies, Communicating Risks

Centre for Folk Culture Studies

In the wake of globalization, Indian culture in general and folk culture in particular needs special attention to safeguard its own identity and heritage. This vital area of enquiry is now arousing culture consciousness among the zealots of the exotic ranging from corporate groups to that of policy makers and social activists.

The Centre for Folk Culture Studies is the first of its kind in the Central University system in India. It was established with the assistance of the Ford Foundation, USA. The Centre's interdisciplinary and multiperspectival approaches

emphasizes research and teaching in Folk Culture Studies in the milieu of contemporary ethnographic fieldwork.

Several reputed scholars from various parts of the world have been collaborating with the Centre in its research activities. The Centre's clientele has been growing incessantly from scholars abroad to Indian academicians.

The main objectives of the Centre are: to study diverse aspects of folk expressive behaviour as a dialogue between human groups and their physical and social environments; to analyse culture in relation to various aspects of human creativity such as Science, Technology, Art, Religion, Literature etc; to document and utilize folklore genres (verbal and non-verbal) and folk lifestyles of various cultural landscapes in order to cognate the native knowledge systems for sustainable development.

Adv. PG Diploma in Folk Culture Studies

The objective of the course is to bring innovation and excellence in teaching by incorporating field based studies through fieldwork which exposes the students to the life experiences of the folk communities and their adaptation strategies to living environments. The course primarily aims at training the students in new ethnographic methods, which would eventually become their strength in dealing with social issues and developmental activities related to cultural sphere. The students trained through this course may become potential human resource for the governmental and non-governmental organizations working in the fields of cultural studies, rural development and sustainable prosperity. The course has a research component and each student would submit a dissertation based on field data in any one aspect of any given folk community. The students will be trained in archival management for preserving, retrieving and disseminating the data in multimedia formats.

Entrance Examination

There will be an entrance examination for Advanced P.G. Diploma in Folk Culture Studies. The admission is based only on the entrance examination. The written test is for 100 marks and is divided into two sections: A and B. Section A (maximum marks 25) comprises objective type of questions to test the ability of the candidate in general knowledge and current events. The Section B (maximum marks 75) consists of short notes and an essay on Indian folk culture and folklore.

Ph.D. Programme

The Centre offers Ph.D. Programme in Folk Culture Studies. The written test will consist of essay and objective type questions to ascertain the general aptitude and capability of the candidate for pursuing research in folk culture studies.

Objectives of the Course

1. To appreciate how people learn and internalize one's own culture, and on occasions challenge their own culture.
2. To understand how communities represent themselves to the others through their cultural idioms.
3. To gain knowledge of how expressive traditions play a role in communicating cultural constructs and community behaviour.
4. To get insights into the worldview of the communities through the process of ethnographic research – interviewing people and analyzing their cultural behaviour.

Faculty

Professor

Y.A.Sudhakar Reddy, Ph.D. (I.I.T., Madras) - Socio cultural and Economic History; Peasant Studies; Oral History; Performance Studies and Folk Culture. **(Head of the Centre)**

Readers

P.S. Kanaka Durga, Ph.D. (Nagarjuna University) - Cultural History; Ethnohistory; Epigraphy; Medieval Bhakti Literature; Folklife Studies; Folklore and Gender Studies

Joly Puthussery, Ph.D. (Hyderabad) – Performance Theory; Folk Theatre in India; Public Performance and Discourse; Religion and Theatrical Practices

Assistant Professor

N. Naveen Kumar, M.S.W. (Bharathiar University), M.A. (Annamalai University) - Community Studies, Field Methodology Ritual Studies, Folklore and Community Development

Centre for the Study of Social Exclusion and Inclusive Policy

The Centre for the study of Social Exclusion and Inclusive Policy is one of the few Centers set up in the country, being fully funded by the UGC with Faculty positions and Non-teaching staff. It was established in May 2007. Based on the recently originated concept the Centers have been established for undertaking comprehensive studies and research into the Social Exclusion as a complex and multidimensional concept having social, cultural, political and economic ramifications. The Centre focuses on exploring the processes that produce Social Exclusion. The studies on historical processes of exclusion and the methodological aspects have been the mainstay of the Centre. This new concept encompasses all forms of discrimination which operate in covert and overt manner on caste, gender, ethnicity, religious and linguistics minorities and other excluded groups such as disabled etc. The Centre, through its research programmmes, strives to intervene in policy processes to mitigate the problems of social exclusion and help building the democratic processes. The centre has the following objectives:-

a. To understand dynamics of discrimination and exclusion.
b. To focus on multidisciplinary approach to analyse the processes of exclusion.
c. To work on theoretical and empirical dimensions of exclusion.
d. To help with the critical inputs into the inclusive policy processes.

Programmes of Study:

The Centre has adopted multi-disciplinary approach. It offers M. Phil and Ph.D. programmes in the broad areas of research outlined in the objectives.

Prospects for Employment:

a. Academic and research institutions with multidisciplinary orientations.
b. Non- governmental agencies and consultancies in development sector.
c. Avenues in policy spaces.
d. Journalism- Print and Electronic

Entrance Examination

The entrance test (Written) for admission to these programmes consist of two parts

Part A: consists of Objective type questions

Part B: consists of essay type questions to examine the aptitude and analytical abilities of the candidate to pursue research programmes in the centre.

Courses offered by the Centre:

S. No	Course No	Course title	No. of Credits
1	SI - 701	Processes of Exclusion and Social groups	4
2	SI - 702	Social Exclusion : Theoretical perspectives	4
3	SI - 703	Research Methodology	4
4	SI - 704	Study Area	4

Faculty:

Professor

G. Omkarnath, Ph.D. (JNU) – Classical economic theory, Indian economy, Teaching of economics **(Director I/c of the Centre)**

Associate Professors

Sreepati Ramudu, Ph.D. (Jamia Milia Islamia University, New Delhi) - Dalit Studies, Caste, Public Policy, Child Labour and Social Movements.

Ajailiu Niumai, Ph.D. (J.N.U, New Delhi) - Gender, Non-Governmental Organizations (NGOs) and Development, North East Studies, Diaspora and Philanthropy

Assistant Professors

J. Rani Ratna Prabha, Ph.D. (University of Hyderabad) - Child Labour & education, Health, Poverty and Economics of Exclusion.

V. Srinivasa Rao, Ph.D. (University of Hyderabad) - Tribal Studies, Adivasi rights, Adivasi and exclusion, Community Participation in education, Education Policy.

Rosina Nasir, Ph.D. (University of Delhi)- Anthropological Demography, Women's Health, Minorities in India (Muslims), Microfinance

Centre for the Study of Indian Diaspora

About the centre

The Centre for the Study of Indian Diaspora was established under the Area Studies Programme of the U.G.C. in 1996 to carry out interdisciplinary research on overseas Indians who today constitutes more than 25 million spread over hundred countries around the world. The Centre envisages research on the historical context of the Indian Diaspora, civilizational heritage of diasporic communities, continuities and transformation in culture,

economy and political life, besides promoting communication and linkages between India and the Indian diaspora.

Objectives

The Centre through its special programme addresses the following issues in the study of Indian diaspora:

- The process of emigration, settlement and identity formation in host societies.
- Ethnicity of Indian diasporic communities in relation to the changing power structures, under which ethnic identity is an integrating or divisive force.
- Transnational networks and linkages between India and the Indian diaspora, and between diasporic communities.
- Indian diaspora in relation to the on-going struggles for identity at the national and global level, and in relation to increasing ethnic consciousness in India.
- Comparative studies of creative writings on the Indian diaspora by the Indian writers, diasporic Indian writers and non-Indian writers. Research into the new cultural forms of the Indian diaspora, including popular culture.
- Micro-level ethnographic studies on the Indian diaspora.
- Contributions of the Indian diaspora to the scientific, technological, administrative and industrial development in host societies.

Programme of study

The Centre offers interdisciplinary courses on Indian Diaspora at the M.A. level besides M.Phil and Ph.D. programmes on Indian diaspora. The entrance test (written) for admission to M.Phil and Ph.D. programmes consists of two parts. Part-A of the question paper will consist of objective type questions to examine the aptitude of the candidates to pursue the research programmes in the Centre. Part-B will consist of questions related to the subject of study at the post-graduate level.

Visiting Fellowships

The Centre offers two to three Visiting Fellowships to national and international scholars each year to carry out specific research or to finalize their Reports/Monographs at the Centre for a period ranging between one to six months. As part of the fellowship, the Centre provides travel support within India and hospitality at the University of Hyderabad.

Application for Visiting Fellowships should include a 2-page description of work to be carried out during the fellowship period, a detailed CV, and recent published papers in the relevant area. Application Deadline: Twice a year - June 30 & December 31.

Faculty

Assistant Professors

Dr. Ajaya Kumar Sahoo, Ph.D. (Hyderabad) - International Migration, Indian Diaspora, Transnationalism, Sociology of Religion, and Social Movements **(Director of the Centre)**

Dr. Amit Kumar Mishra, Ph.D. (New Delhi) - South Asian Diaspora, Nationalism and Transnationalism, Identity, Multiculturalism, Imperialism and the Anti-imperial Movements in Asia and Africa

Centre for Knowledge, Culture and Innovation Studies

The Centre is offering an interdisciplinary **Ph.D**. programme in Science, Technology and Society Studies from the academic year 2009-2010.

Prof. E. Haribabu, Department of Sociology is the Coordinator of the Centre.

The course work for the Ph.D. Programme:

Every Ph.D. Student admitted to this programme must pursue and pass the following courses in the 1st year of their admission (2 Semesters)

I Semester

Science, Culture and Society

Research Methodology

Science, Technology and Innovation

Research Related Course I (First course in the area of one's research)

II Semester

Technology, Culture and Society

Science, Technology and Ethics

Science, Technology in the Modern India

Research Related Course II (Second course in the area of one's research)

Evaluation: 40 per cent for unit tests and 60 per cent for the end-semester examination in each of the courses.

Centre for Human Rights

The Centre for Human Rights was formally established in the year 2007. Prior to that there was a Human Rights Programme within the Department of Political Science for which the UGC has sanctioned funds under Special Assistance Programme (SAP) in Human Rights. Under the Human Rights Programme a Bi-annual journal "Indian Journal of Human Rights" is being brought out since 1977. Post Graduate Diploma in Human Rights is being offered through distance mode. After the establishment of Centre for Human Rights, a number of seminars/ conferences / symposia have been organized on different aspects of Human Rights.

The main objective of Centre for Human Rights is to undertake research and teaching programmes in Human Rights. Centre also conducts seminars and debates on current issues and theoretical perspectives of Human Rights. The Cecntre offers four optional courses for Post-Graduate students of the University on interdisciplinary basis. These four courses are (1) Critical Concepts of Human Rights (2) Human Rights in India: The Constitutional and Legal Framework (3) Human Rihgts in India : The Socio-Economic Context and (4) Dalit Human Rights. These courses are offered subject to the availability of the teachers.

From the year 2010-11, the Centre is offering Ph.D. Programme in Human Rights.

The **Ph.D.** programme consists mainly of a research project (and course work if required) and a thesis on a topic approved by the Centre. 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 hypothsis, goals or objectives, statement of the problem and methods of executing the proposal. This is an essential requirement.

Entrance Examination

The written examination for Ph.D. will consist of essay type questions. The candidate has to attempt three questions out of a total of six questions. The questions will be covering broad areas of theory and practice of human rights in India and at the global level. The written examination will be for 75 marks. The remaining 25 marks will be for viva voce examination.

Faculty

Professor

G. Sudarshanam, Ph.D. (Kakatiya University) **(Coordinator of the Centre)**

Guest faculty

Prof. G. Haragopal, Ph.D. (Kakatiya University)

Joint Faculty

B. Chandrasekhar Rao, M.A. (Andhra), (Dip. in Strategic Studies) – Dalait Politics, Comparative Government and politics, Indian Government and Politics, Chinese Studies (Department of Political Science)

K.Y. Ratnam, Ph.D. (JNU) – Indian Politics, Dalit Politics in India, Democratic Process in A.P. (Department of Political Science)

Sreepati Ramudu, Ph.D. (Jamia Milia Islamia University, New Delhi) - Dalit Studies, Caste, Public Policy, Child Labour and Social Movements. (**Centre for the Study of Social Exclusion and Inclusive Policy**)

K. Laxminarayan, Ph.D. (Hyderabad) – Political Economy and Agricultural Economics (Department of Economics)

G.Vijay, Ph.D. (Institute of Social Studies The Hague) – Labour Economics, Environmental Economics, Economics of Business Organisations, Law and Economics (Department of Economics)

V. Srinivasa Rao, Ph.D. (Hyderabad) – Exlcusion, Inclusive Policies-STs, Education and Social Participation (Centre for the Study of Social Exclusion and Inclusive Policy)

Centre for Gandhian Economic Thought

The Centre for Gandhian Economic Thought (CGET) has been established by the University in 2008. Gandhi's thought illuminates many fields of human activity – his vision also extends to an understanding of a "superior" mode of economic organization.

The development of modern economic theory took place in the context of great changes in social, political and philosophical thought – in particular in the theories of knowledge about nature and society and concomitantly in methods of production. One consequence of these changes was the perception that production was wealth. With production and consumption becoming separate activities, market came to occupy the central place in modern economic theory, and further, basic assumptions about the consumer led to economics becoming a science of scarcity.

Economic issues loom large in the totality of the Gandhi's work, in addition to his contribution to politics, philosophy, morality, culture, and civilization as an integrated whole. His abiding concern remained with the economic conditions of the ordinary people. Gandhi's economics comes bundled with morality. The following three inter-related aspects are important for developing a Gandhdian critique of economic theory and for an attempt at constructing new economic theories: first, importance of taking a long view regarding economic actions; second, taking responsibility for the consequences of one's actions; and third, non-separation of means and ends or insisting at least as much on the sanctity of means as that of ends.

Gandhi's intutive understanding was based on a civilizational perspective deeply underlying all his thought. It grasped the processes set in motion by predominant economic theories, and the systems based on them – the processes which are even more clearly visible today, especially in their environmental and ecological consequences. The Gandhian vision and insights provide a framework to develop a critique of existing economic theories and to develop economic theory based on such a framework. Certain problems of economic theory, logically leading to certain absurd conclusions, cannot be pinpointed to any one aspect of economic theory. *Thus, it is not sufficient to understand the problems of economic theory through an enquiry purely within that system of thought. Looking at it from outside, such as from a Gandhian perspective, may help in pinpointing these problems.*

Objectives

The Centre for Gandhian Economic Thought has its research focus primarily, though not solely, on economic theory. It has set the following broad objectives:

1. Develop a framework for economic theorizing based on Gandhi's vision.
2. Examine existing economic theories from a Gandhian vantage point.
3. Carry out research on economic theories based on Gandhi's vision.
4. Critically examine Gandhi's and Gandhian economic thought.
5. Develop courses and academic programmes on Gandhian economic thought.

Courses of Study

The Centre offers Ph.D. programme in: Economic thought of Gandhi and Gandhian thinkers; Indian economic thought; Critical economic theory; Economic methodology; and Economic philosophy. The research in the Ph.D. programme will be expected to focus on a critical examination of economic theory, methodology and philosophy from alternative vantage points, such as a Gandhian perspective. The selected candidates will have to take four courses in the first year of the programme. However, those with M.Phil. degree are exempted from "Research Methodology" course, provided it was part of their M.Phil. programme.

Entrance Examination

Admission to the Ph.D. programme will be based on a written test (75 marks) and an interview (25 marks). The written test consists of objective type questions only. There will be questions to assess competence in economic theory (mostly microeconomics and macroeconomics), elementary mathematics and logic and basic familiarity with Gandhian thought as well as current economic affairs. Only those who qualify in the written test will be called for the interview. Those who are qualified in the UGC NET for

JRF are exempted from the written test for the Ph.D. programme. Candidates for Ph.D. programme are required to submit a short write up along with applications for admission. The write up should state the kind of research problems in which the candidate is interested.

Faculty

Professors

S.G. Kulkarni Ph.D. (IIT Kanpur) - Philosophy of Science, Epistemology, Gandhian Thought

Naresh Kumar Sharma B.Tech. (Mech. Engg., IIT Kanpur), Ph.D. (Economics, ISI Delhi) – Economic Theory, Gandhian Economic Thought, Development, Science and Technology (**Coordinator of the Centre)**

Sarojini Naidu School of Arts and Communication

The Sarojini Naidu School of Arts and Communication started functioning from 1988-89 and offers Masters-level courses in Dance, Theatre Arts, Fine Arts, and Communication and Doctoral (Ph.D) programmes in Communication, Theatre Arts, and Dance.

The University is indebted to the family of Sarojini Naidu for the bequest by the late Padmaja Naidu of the 'Golden Threshold', where the University started functioning. In recognition of this gesture, the University started this School by naming it after Sarojini Naidu to offer post-graduate and research programmes in the fields of arts and culture.

The School provides courses of study in the Departments of Dance, Theatre Arts, Fine Arts, and Communication. It seeks to enlarge the scope of the academic programme so as to include other areas of artistic endeavor like music. The broad objective of the teaching programme is not only to explore the evolution and forms of arts, but also to bring about an integrated approach to the study of creativity. Apart from the core Faculty, experts in various fields and Guest Faculty of national and international repute teach courses in the School.

Prof. B. Anantha Krishnan, Department of Theatre Arts is the Dean of the School.

The School comprises the following Departments:

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

The School has evolved a pattern of studies for Master's Degree programmes in four semesters in the Departments of Dance, Theatre Arts, Fine Arts, and Communication. The courses are so arranged as to make the students aware of not only the evolution of each art, but also the social context and the innovations that these art forms have experienced in their growth.

The Ph.D. programmes mainly consist of a research project with some course work if necessary and the writing of a thesis on a topic approved by the Faculty of the Department. It is expected that the thesis will make valuable contribution to the specialized area of study. Candidates seeking admission into the programme must submit with their applications a tentative but detailed outline of their research proposal. Candidates must appear for an interview before admission into Ph.D.

Department of Dance

The Department of Dance offers a two year postgraduate degree (Master of Performing Arts) and PhD, in Dance. The Master of Performing Arts programme is devised to enhance the scholarship of dance in practice and theory, to initiate students into research and teaching, and, to develop an ability to aesthetically appreciate dance as a specialized human endeavor. In the Master of Performing Arts programme, two different specializations, viz., **Kuchipudi** and **Bharatanatyam** are being offered. The students are required, at the time of the admission itself, to specify their specialization.

In the Master of Performing Arts (MPA) programme, various courses spread over two years are designed to create an understanding of evolution and development of dance both in India and the World over. The programme also gives a clear understanding of the dance forms of the student's choice enabling them to perform with greater felicity and also undertake new choreographic works. A project work based on field study using various research methodologies is a part of the course. Arts Management, Musical Aspects, Stage Craft & Design and Dance are some of the important areas that are dealt with in the course. In the practical course major stress is on the techniques of Classical Indian Dance including the *Sattvikabhinaya*, its analysis and application to suit the changing needs. Specialized papers on the theoretical construct of the technique and form are also offered.

Besides the regular teaching by well-trained core faculty, value added workshops by eminent and reputed scholars

and practitioners are provided periodically to the students. The course also offers opportunities to the students to participate in various seminars, to perform in dance-productions, to create new choreographies and to travel to important Performing Arts festivals.

The **PhD** programme of the Dance Department was started in 1991. The research projects in the Department so far have focused on the areas of Dance History, Movement Analysis, Historicizing Dance in the Context of Nationalist Movement and Post Independent India, the Psychosomatics of Dance, Diaspora Studies, Pedagogy and Dance Therapy. The Department has produced nearly ten doctorates till date and presently has over a dozen research scholars working for their Ph.D.

Entrance Examination

The admission is through an entrance examination consisting of a combination of objective (25 marks) and essay-type questions (25 marks) on the subject related to the specific field of study i.e., Dance and will include basic theory. There would be a common question paper for both specializations. Those selected in the entrance examination will then be called for a practical test before final selection. For Ph.D. the written test is for 75 marks and Viva voce for 25 marks.

Candidates are required to indicate in the application their preference of specialization in order of priority. Based on the prerequisite experience and the candidate's performance in the admission test and viva, the Department shall assign specialization streams to each selected student.

Faculty

Professor

- **Anuradha. J**, Ph.D. (Dance) (Hyderabad) – Theoretical Aspects and Kinesthetics of Dance, Kuchipudi Practicals and Choreography. **(Head of the Department)**

Readers

- **Pasumarti Ramalinga Sastry**, Diploma (Kalakshetra, Chennai) – Bharatanatyam Dance, Theory, Practicals and Choreography.

- **M.S. Siva Raju**, Ph.D. (Hyderabad) – Comparative Dance Studies, Musical Aspects of Dance, Movement for Dance and Choreography.

- **G. Aruna Bhikshu**, Ph.D. (Dance) (Hyderabad) – Applied Theory and Dance Studies.

Visiting Faculty

Dr. Sunil Kothari
Prof. C.V. Chandrasekhar
Sri. Kala Krishna
Smt. Chitra Vishweswaran
Dr. B.M. Sundaram
Dr. Davesh Soneji
Sri. Narasimha Chari
Dr. Pappu Venugopala Rao (Radhakrishnan Chair Professor)

Department of Theatre Arts

The Department of Theatre Arts strongly believes that working at good theatre is physically demanding and intellectually arduous. There is no short cut to achieve it except hard work and serious study. The objective of our Master's programme is to empower students through rigorous training, to practice and appropriate the art of theatre to new contexts thrown up by the rapidly changing contemporary culture and technology. To do this, thorough knowledge of the history and theory of performance is imperative so that a theatre artist understands the field as full of choices and can chart out his or her own path in the society and market.

The Master's programme balances training in the practical aspects of theatre with the historical and theoretical aspects. The aim is to train multi-faceted theatre artists, integrating theory with practice, imagination with technology, and art

with the practical issues of management and marketing in diverse contexts of the globalized market.

Apart from experienced permanent Faculty, the Department also organizes workshops with prominent experts in theatre, often in collaboration with the National School of Drama, New Delhi. The department, along with the Sarojini Naidu School will soon move into a new building with the best possible facilities and latest equipment.

The medium of instruction will be English. But there is no language bar for acting or other practical work. Students can work in the language of their choice and multilingual plays are encouraged. The department offers the following courses:

M.P.A. (Theatre Arts)

The Masters in Performing Arts programme is a rigorous, full time three-year course. This course trains the students in the practical and theoretical work so that they understand and practice theatre as a unique form of artistic communication. The core components are designed to provide hands-on experience of all the areas of theatrical communication and their possible application in different contexts. The theory courses teach the students to look at the history of theatre practice from multiple perspectives – like the literary, socio-economic, political, philosophical, etc. The course content covers both Western and Indian drama and theatre and also provides understanding of theatre in relation to other forms of artistic expression –like painting, sculpture, music, cinema, etc. The course tries to encompass the whole spectrum, from classical to contemporary, traditional to commercial, and folk to the digital. Here is a brief outline of the course components, spread over the three years of study:

Arts, Aesthetics and Society (Modern to Contemporary)

History, Theory and Text (Classical non-Indian/ Indian Classical/ Traditional/ Folk/ Realism and after/ Contemporary Approaches)

- To understand different forms of artistic expressions, their processes, contexts, grammar and to relate them with theatrical expressions.
- Significance and multiplicity of theatre activities and their relationship to their contemporary history and culture
- How different theatre forms struggle for space within the same period and culture.

Production Process

Play Productions

- Different stages of production process from an idea/theme/text to a concrete theatrical expression.
- Working with experienced and professional directors on different kinds of plays. To understand different ways of interpreting and producing a professional performance.

Basics of Design

Theory and Practice of Scenography

Theory and Practice of Direction

Design and Direction

- Hands-on training in design skills and to understand their function in the total performance structure in organic relation to other components.
- Working with new materials and techniques to explore new avenues in contemporary performance.

Basics of Acting

Styles of Acting

Acting in Play Productions (Classical/ traditional/ folk/ Modern Western/ Modern Indian/ Contemporary approaches)

- The basic elements of acting, stage presence and theatrical communication. To be able to follow direction and execute the director's interpretation of the text and design one's acting in relation to other elements of design.
- Skills and possibilities of improvisations, different approaches to and styles of acting through a series of scene-works and productions.

Theatre and New Contexts

Community Theatre or Applied Theatre

Children's Theatre & Theatre in Education

Theatre Management

- Using the skills of theatre practice in different contexts like Community theatre, Children's theatre, event management, etc.

- To visualize and prepare professional theatre projects with a clear understanding of the budget, work division, human and financial resource management, presentation and marketing.

Specializations

In the third year, apart from the common courses, students are offered the following specialized courses. The department reserves the right to decide whether a student is eligible to opt for a particular Specialization, depending upon his/ her performance in that area during the first two years.

Advanced Course in Design and Direction;

Advanced Course in Theatre Studies; and

Advanced Course in Acting and Children's Theatre.

Apart from these courses, students should undergo continuous Compulsory Non Credit-courses dealing with Movement and Voice (practical) throughout the three year programme. All practical courses require 90% attendance from the students. Medical fitness is a must to go through the rigorous programme. So exemptions for lack of attendance on medical grounds can not be entertained.

There is an exit clause at the end of the first year. Students, who have successfully completed the first year and do not wish to take advantage of the more in-depth training provided during the next two years can leave the course with a P.G. Diploma in Theatre Arts. Promotion into the second year, apart from the desire of the student, is subject to satisfactory performance and successful completion of the first year of study. The performance of the student will be assessed on the basis of regular attendance, motivation and active participation in the studies and practical work, co-operation and co-ordination with fellow students as well as securing the necessary minimum marks in written and practical exams.

Entrance Examination and interview

Any graduate with an aptitude for theatre can apply for the M.P.A. course. Experience in theatre or any performing art will be an added advantage. Eligible candidates are required to write an entrance examination of two-hour duration, consisting of objective and descriptive type questions on areas related to theatre and culture. Those qualified in the written test will be called for an audition/interview at the University. **Candidates are expected to come prepared to discuss a full length play of their choice and also perform a dramatic passage from a play of their choice in a language of their choice.** Any additional talents like music, dance, martial arts, drawing, etc. will be added advantages.

Ph. D. Programme in Theatre Arts

The focus of Doctoral program in Theatre Arts is to generate a knowledge-base in the area of Performance research and practice of theatre. Performance is seen as an inclusive field encompassing all the genres of performance from traditional to contemporary, and explored in the backdrop of constituent and frontier domains like history, language, literature, anthropology, cultural studies, folklore, music and management in the social and historical context. A flexible interdisciplinary framework is followed to enable researchers to carry out work in the area of performance studies. To bridge the domains of practice and research, Practice as Research in Performance is encouraged.

Faculty

Professor

B. Ananthakrishnan, Ph.D. (Madras)-Performance Studies, Production Process. **(Dean of the School)**

Associate Professors

Jnaneswara Bhikshu, Ph.D. (Hyderabad) Indian Drama and Theatre, Comparative Theatre Aesthetics**(Head of the Department)**

Satyabrata Rout, M.A. (National School of Drama), Ph.D. (Meerut University) - Scenography

Rajiv Velicheti, M.A.- English (O.U.), M.A. in Dramatic Arts (National School of Drama) - Theatre History, Acting and Direction

Reader

Noushad Mohammad, M.A. (National School of Drama), Actor Training (TTRP, Singapore)

Joint Faculty

Prof. Tutun Mukherjee (from Centre for Comparative Literature)

Guest Faculty

Prof. S. Ramanujam

Dr. Shankar Venkateswaran

Prof. D.S.N. Murthy

Dr. R.R. Harischandra

Ms. Nasreen Ishaq

Dr. Abhilash Pillai

Department of Fine Arts

The Department offers a 2 year full time post-graduate degree course, **Master in Fine Arts (MFA)** in the disciplines of **Painting, Printmaking and Sculpture**. Twenty four hour access to studio facilities ensure that concepts and skills acquired at the undergraduate level become tools for building a new level of competence and expertise. A compulsory component of the course is a survey of art history from ancient to contemporary periods of both Indian and Western art. This theoretical foundation is aimed at providing the student an understanding of art in its total context both material and subjective. The students submit a dissertation on a theoretical topic of their choice towards the end of course. The teaching does not presume to concern itself directly with a young artists work. Teachers incite such works and criticize the end products in a spirit of enquiry.

Instruction at the Department is essentially tutorial and involves a close working relationship between student and teacher, in which the latter encourages the student to make rigorous analysis of his/her work. A unique aspect of this course is the exposure the students get to the work of artists of national and international repute through the visiting Faculty programme and workshops.

In the print-making stream, the students are introduced to a wide array of basic print-making techniques, such as etching, screen printing, lithography, linocut, woodcut, dry point and engraving. The students are encouraged to explore and combine the expressive possibilities of these different techniques in their own work. These studio practices are complimented by a formal introduction to the history and aesthetics of printmaking medium. In sculpture stream, the students are encouraged in experimentation of different methods. History and aesthetics of sculpture are taught to develop a critical understanding in this domain.

MFA in Art History & Visual Studies

Entrance Examination

Separate entrance exam would be conducted because of the distinct nature of the studies.

Admission: Written test (80 marks) and Viva (20 marks)

Faculty

Professor

R.S. Sham Sunder, P.G. Dip. Printmaking (Kala Bhavan, Visva Bharati University, Santiniketan) B.A. Bangalore University (History, Economics, Sociology) **(Head of the Department)**

Readers

Alex Mathew, P.G. Dip. in Creative Sculpture (Faculty of Fine Arts, M.S. University, Baroda)

LNV Srinivas, MFA Painting, S.N. School, University of Hyderabad

Kirtana Thangavelu, Ph.D. (University of California, Berkely) - M.A. Fine Arts, Kalabhawan, Santiniketan, B.Fine (M.S. University) Baroda

Assistant Professors

Baishali Ghosh, Ph.D. (MSU), MFA (Art History), BFA (Art History, Santiniketan)

Tanmay Santra, MFA Painting (Kala Bhavan, Visva Bharati University, Santiniketan), B.Sc. (University of Calcutta)

Guest Faculty

Sarada Natarajan, MFA Art History (Pre-Modern, Indian & Western Sculpture)

Pooja Chauhan

Santhosh Kumar Sakhinala, MVA Art History and Criticism (M.S. University), Indian and Western Modern Art

Department of Communication

The Department offers a full time 2 year Masters programme in Communication. The **M.A. Communication** programme has the following objectives:

1) To study the process of mass communications from the perspective of mass communication theory, political economy, historiographical/cultural studies, and development.
2) Producing & studying both technology and its mediated usage.
3) To impart skill-based training to prepare students for the ever growing industry

The two-year (four semester) M.A. programme offers the following streams of specialization:

a) Television & Radio
b) Print Journalism & New Media
c) Communication & Media studies

Core courses such as Introduction to Communication, Historiographies of Media, Media Law & Ethics, Introduction to Advertising & Public Relations, Basic writing skills etc are offered in the first two semesters. Students, according to the stream assigned, will specialize in one of the above four area in the last two semesters (See Entrance Examinationbelow for more details). Graduates who pass out of the department will have a broad understanding of the foundations of Communication and media and acquire in-depth knowledge/skills in at least one area of specialization.

The following table gives an indication of the areas covered in the last two semesters of specialization:

Specialization Stream	Focus areas of study
Television & Radio	Radio/TV journalism, studio & field Production, broadcast media management, documentary & short film making, music video, fiction
Print Journalism & New Media	Specialized reporting & editing, features for Print & New Media, layout & design, production & managing websites, content management, media management
Communication & Media Studies	Development Communication, Film/TV theory, Communication Research, Cultural Studies, ICTs, Globalization & media, media & gender

Internship Requirement for M.A. (Communication)

During the summer vacation, each student shall work for a period of four to six weeks in a reputed communication/media organization (e.g. newspaper, TV channel, production house, advertising agency, PR agency, market research firm, IT company, NGO, etc) and obtain a 'satisfactory completion' internship certificate for submission to the department along with a brief internship report. The students shall seek prior approval of the department before joining an organization for internship. Where necessary, the department shall facilitate acceptance of students by particular organizations. Satisfactory completion of internship is a requirement for completion of the M.A. programme.

Infrastructure

Computer Lab: The Department has a computer lab connected through LAN with software, scanning, printing & CD/DVD writing facilities. It has software like Quark XPress, Photoshop and others adequate for multi-media presentations. All computers are internet enabled. Students utilize this facility to complete their print/web projects, assignments and other course related work.

AV lab: The audio lab is equipped with multiple microphones, professional multi-track digital recording and editing facilities. Portable digital field recording units are also available for outdoor recording. Students learn to operate professional sound-editing software. The video lab is equipped with a three-camera set-up for multi-camera productions. Besides these, 14 digital video cameras are exclusively meant for single camera field productions. Post-production facilities include non-linear editing systems. Access to and use of studio facilities are governed by rules laid out by the department. Students have to provide necessary undertaking regarding access/utility rules for the AV lab.

Copyrights

All copyrights of student work produced during their tenure at the University will rest with the Department/University.

Student participation

The programme is intensive and involves group and individual presentations, research projects, studio exercises and other production-related activity. The programme demands active participation of the students.

Students be prepared to incur any expenses towards completion of their projects, field visits, and participation in various events etc.

Entrance Examination

Applicants found eligible must write an entrance examination. Based on performance in the entrance examination, the short-listed candidates appear for an interview before final selection is made.

Candidates are required to indicate in the application their preference of specialization in order of priority. Based on the candidate's ranking at the end of the admission process, the Department shall assign specialization streams to each selected student.

Post-graduate Diploma in Health Communication

Introduced under the UGC's Innovative Programmes scheme, this new programme is aimed at building communication and advocacy capacity in the growing health services sector, particularly at the community level. The programme will benefit those intending to enter the media and communication field as health journalists or communicators and public/community health workers who are required to plan and execute IEC (information-education-communication) activities. The programme will combine an exposure to the principles and practices of communication and an understanding of public health issues, policy and planning. The two-semester programme will include one semester of intensive course work and one semester of project work/research in the field.

Radio Production Practicum

The Department offers a 2-credit radio practicum every semester that is open to all students of the University. This will involve learning the basics of radio production and working with the campus community radio station, Bol Hyderabad, and will include producing recorded programmes involving the community and participating in live shows. The course may be taken as an optional in addition to other credits required for completion of the academic programme. However, course will be graded and the credits will be reflected in the transcript.

Ph.D. in Communication

The Department offers a Doctoral Programme in Communication. Those found eligible must write a written test comprising questions in: theory and concepts; research methodology; and a project synopsis. If the candidate qualifies for the interview, he/she will have to defend his/her synopsis at the interview.

Faculty

Professors

B.P.Sanjay, Ph.D. (Simon Fraser University, Canada) – Political Economy of Communication Technologies, Development Studies, International Communication, Communication/Media Policy. (on leave as Vice-Chancellor of TN Central University)

Vinod Pavarala, Ph.D. (University of Pittsburgh, USA)- Communication and Development, Community Media, Popular Culture.

Readers

Usha Raman, Ph.D. (University of Georgia, USA) Print Journalism, Health & Science Communication, New Media and Society. **(Head I/c of the Department)**

P. Thirumal, Ph.D. (Pondicherry University) - Rhetoric of Development, Theory & History of Media.

Vasuki Belavadi, M.A. (University of Hyderabad) – Radio, Video Production, Community Media.

Kanchan K. Malik, Ph.D. (University of Hyderabad) – Print Journalism, Community Media, Media Law & Ethics, Media & Gender, and Communication Theory & Research.

E. Sathya Prakash, Ph.D. (Osmania University) – Television Production, Documentary Filmmaking and Media Management.

Guest Faculty

Prof. Usha Vyasulu Reddy

S.Ramu, Journalist

Chhavi Sachdev, Independent Radio Producer, Sonalogue, Mumbai

Bishwadeep Moitra, Executive Editor, Outlook Magazine, Delhi

School of Management Studies

The School of Management Studies (SMS) was established and started functioning from May 1999. The School has completed a decade of excellence in providing Management Education and preparing business leaders for the global market place. The School is predominantly acknoeleged for its cutting-edge research, excellent teaching and learning activity in an intellectually simulating environment. It has been sanctioned the UGC Special Assistance Programme in terms of Development assistance for strengthening the School.

THE BEGINNING…

It offers a two-year full-time MBA Programme, a unique MBA programme in Health Care and Hospital Mangement and a Ph.D. programme in Management studies. It promotes faculty and doctoral research, consultancy, training, and outreach activities in various sectors.

THE GUIDING LIGHT – THE VISION

The broad vision of the School is to continually strive to achieve excellence in managemen education, research, training, consultancy and outreach activities with a multi-disciplinary, multi-sctoral and developmental perspective.

THE CHOSEN PATH – THE MISSION

- To continually broaden the scope of application of management concepts to infrastructural, institutional, Environmental & Developmental services, Entrepreneurship & emerging areas like CRM, RETAILING, SCM, Business Incubation, University Industry Partnership, research, training and consultancy.
- To promote the development of sound conceptual and adaptable functional and strategic skills among students.
- To encourage socially responsive managers of tomorrow.
- To instill a culture of life long learning and self development among the students.

THE CORE ACTIVITIES

- Organizing the course work including electives
- Providing relevant inputs / skills – self awareness and growth lab, organizational skills, summer internship, and project work
- Encouraging research by faculty and Ph.D. scholars
- Organizing seminars and encouraging participation in external seminars
- Collaborating with reputed national / international institutions / industry
- Encouraging students to organize and participate in co- and extra-curricular activities

Prof. V. Sita is the Dean of the School.

a) M.B.A.

The two year MBA full-time programme with an intake of 60 students is spread over four semesters. During the first two semesters, core and foundation courses are offered. These include Management Concepts and Approaches, Managerial Accounting and Finance, Marketing, Organizational Behaviour, Human Resource Management, Quantitative Techniques, Managerial Economics, Information Technology, Communication and Personal Effectiveness, Operations Management, Research Methodology and Business Environment. In addition, a five-day concentrated Self-awareness and Growth Lab is also organized during the first semester.

The students are required to get practical exposure by undertaking eight weeks internship in an organization during the summer intervening between the second and third semesters. These internships are intended to familiarize the students with current management practices, work environment and organizational culture. As such, the summer internship is an integral part of the MBA programme.

During the second year, the students have the opportunity to specialize in two selected areas of their interest. These specializations are offered through electives and project work spread over the two semesters. The students may choose from the following specializations offered:

- Marketing Management

- Finance Management
- Human Resources Management
- Operations Management
- Entrepreneurship

The students also undertake a long term research project in the fourth semester. It is intended to provide research skills thus enabling them to develop decision making skills as managers.

Ph.D.

The School also offers a Ph.D. programme in Management Studies. The students are expected to produce a dissertation of international quality based on research in analytical and/or applied areas of management. All the students admitted into Ph.D. programme are required to undergo course work.

Minimum Qualifications for Admission

a) M.B.A.

Admissions for the M.B.A. 2013-14 batch, with an intake of 60 students is under process on the basis of CAT-2012 scores (for those candidates who had applied to the University of Hyderabad) in addition to on-campus group discussion and interview of the short-listed candidates.

b) International students: 2013-14 MBA Batch

Upto five international students may be considered for admission to the MBA programme in absentia. Their selection would be based on :

- 60% marks or above or its equivalent grade in a Bachelor's degree in any field from an officially recognized University/institution in their country of residence;
- Proof of proficiency in English (score in TOEFL or equivalent test or certification);
- Statement of purpose; and
- At least two academic references

Interested students should submit an application with full personal details, summary of academic records from high school onwards, attested copies of mark-sheets and TOEFL (or equivalent) scores, a brief (200 to 300 words) statement of purpose for pursuing the course, names and contact addresses of at least two referees, by **April 15, 2013** at the latest. They should also ensure that, if admitted, they must join the programme before 15th July, 2013.

The charges for hostel accommodation on campus for all students from abroad will be the same as paid by students from India. All fees and charges are subject to revision by the School/University from time to time.

Ph.D. Programme

Eligibility: Master's degree or its equivalent in Management, Commerce or Accounting (M.B.A., M.Com., C.A., I.C.W.A.) with 55% of marks.

One or more of the following qualifications will be given additional weightage in selection of applicants :

- Other postgraduate degrees/diplomas from recognized institutions;
- One or more publications in management related subjects in refereed journals;
- Years of teaching/professional experience

Applicants will be required to submit, along with the application, a brief tentative proposal (about 500 words) on their proposed topic of research. Applicants satisfying the minimum qualifications will be required to take a written entrance test, and the short listed candidates will be required to appear for an interview. The entrance test will carry 75% weighage and the interview 25% weightage in the final selection.

Note: Candidates who have qualified in UGC NET for JRF or awarded RGNF/MANF in Management Studies or related areas are exempted from appearing the written test and will be given due weightage of 40 marks for the written test. They will however have the option to appear in the written test to secure more than the assigned marks.

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

The School has launched a unique MBA program (Health Care & Hospital Management) from the academic year 2008-09. The two year (four semesters) programme is offered in collaboration with leading hospitals to meet the challenges and opportunities offered by the growing health care industry in India. The programme fulfills specific

needs of middle level administrators in hospitals / health care and related sectors. This comprehensive programme will provide a professional qualification and insights into managerial functions for those serving graduates who wish to take up health care and hospital management as a professional career. It will also be of immediate benefit to serving professionals in this sector. The programme is offered to prepare students to contribute effectively in different areas of healthcare and hospital management. It focuses on developing excellent managers with the desired professional skills to take up positions at the entry level and middle level positions.

Vision

The broad vision of the programme is to strive to achieve excellence in the areas of health care and hospital management education, research, training, and consultancy on par with International benchmarks and standards.

Mission

The broad mission is to prepare competent and trained hospital management professionals in a synergistic learning environment having strategic alliances with leading healthcare institutions in India and abroad. The major focus is on enhancing and enabling the existing mechanisms engaged in management of healthcare sector in India through capacity building programmes, dissemination of knowledge through continuous interaction between academia and industry, and to promote developmental activities in health care sector.

Objectives

The programme and the pedagogical techniques are designed to develop effective communication, analytical, and problem solving skills among the participants and empower them to meet the challenges faced by the health services organisations. The specific objectives of the programme are:

- To prepare qualified and efficient health care and hospital management professionals
- To develop better systems for effective delivery of healthcare services
- To train the students in developing better leadership skills, inculcating values and ethical practices
- To provide the necessary skills and knowledge for practical orientation and implementation of strategies in relation to modern hospital / health care management practices

Highlights of the Programme

- Curriculum is spread over foundation and core courses in the first year and specialized courses and electives in the functional areas in the second year
- Course curriculum developed by seeking inputs from senior hospital management and health care professionals
- Self awareness and growth lab for personal effectiveness
- 8-10 weeks of summer internship to understand the nuances of the hospital environment
- Final project under the supervision of a Faculty guide in conjunction with an industry mentor

Course Curriculum and Program delivery

The course curriculum is developed with active collaboration / involvement of senior health care and hospital management policy makers, administrators, and professionals to provide the students with state of the art knowledge and practical orientation in the field of health care and hospital management. The course is being offered initially to a limited strength of about 20 students with key inputs from the Faculty of the school and other visiting Faculty with supplementary inputs from industry professionals. The programme would be run in active association and collaboration with the School of Medical Sciences so that necessary expertise can be drawn from the school.

Program Pedagogy

The teaching/learning methodology is significantly interactive with case studies and group projects to study global health care and hospital management practices

- Interaction with eminent professionals from health care and hospital management
- Individual learning through guided assignments
- Personal growth/self-development and organization skill workshops
- Computer-based learning and audio-visual aids

During the period of study, the student will be required to carry out a 8 weeks summer project after completion of the II semester and final internship project work in any health care institution in the final semester. Efforts would also be made to provide the students a continuous learning opportunity through short term projects and attachment with recognized hospitals. The intake, qualifications for admission and schedule for written test/interviews for M.B.A. (Health care and Hospital Management) are provided in a tabular format at **Chapter 2** of this brochure.

Faculty

Professors

V. Venkata Ramana, M.B.A. (SKU), Ph.D. (Management- Osmania) - Marketing Management, General Management, Corporate Strategy & CRM and Services Marketing

V. Sita, M.A., (Osmania) M. Phil, (University of Hyderabad), Ph.D. (Osmania) - FDP(IIM, Ahmedabad), PGDHRM – Public Policy, General Management, E-Governance, entrepreneurship & Women Studies. **(Dean of the School)**

B. Raja Shekhar, B.Tech. (Civil – Acharya Nagarjuna), M.B.A. (Osmania), Ph.D. (Management – Kakatiya), M.Sc. (Psychology – SVU), FDP (IIM, Ahmedabad), PGDPMIR, PGDCS – Quantitative Techniques, Operations Management, Quality Management, Consumer Protection and Supply Chain Management.

P. Jyothi, M.A., Ph.D. (Psychology - Osmania) – Organisational Behaviour, Human Resource Management, Organisational Development, and Entrepreneurship.

Associate Professors

S. Mallikharjuna Rao, Ph.D. (Osmania), F.I.C.W.A. – Financial Management Strategic, General Management, Infrastructure Management and Health Care Financing

Mary Jessica, M.Com. (Osmania), Ph.D. (Management - Osmania) – Financial Management, Merchant Banking and Financial Services, Investment Management and International Financial Management.

Readers

G.V.R.K. Acharyulu, M. Tech. (Chemical – Kakatiya), M.B.A. (Osmania), Ph.D. (Management – Osmania), DPM -Quantitative Techniques, Operations Management, Supply Chain Management and Health Care Management. Systems Analysis. **(Coordinator, M.B.A Health Care and Hospital Management Programme).**

Chetan Srivastava, MBA (Osmania), Ph.D. (Management – Osmania), PGCCA, MCSD – Strategic Marketing. International Marketing, Advertising, Sales Management, IT in Management

Sapna Singh, MBA (Osmania), Ph.D (Management – Osmania) – Marketing, Human Resource Management.

Assistant Professors

D.V.Srinivas Kumar, B.Tech (Acharya Nagarjuna), MBA (Andhra), Ph.D (Management- Hyderabad) – Services Marketing, Customer Relationship Management, IT in Management

K. Ramulu, M.Com (Kakatiya), MBA-Finance (DRBRAOU), M. Phil (Nagpur) and Ph.D. (Kakatiya) – Materials Management-Financial Management/Financial Accounting, Management Accounting, Financial Risk Management, Security Analysis and Portfolio Management and Financial Markets.

Some of the key invited Adjunct and visiting Faculty are :

1. **Prof. Arun K Tiwari,** Managing Director & CEO, Indo-US Health Care Private Limited
2. **Dr. Eswara Rao,** M.S. (Gen. Surgery), Director, Health India Hospital Consultancy Corporation, Hyderabad
3. **Dr. K. Venkateswara Rao,** MBBS, DCH, Ph.D., FCIP, FIPHA, FAMS – Research Director, Innova Children Heart Hospital

In addition several local and international senior managers and management experts are regularly invited to interact with the students as Guest Speakers.

School of Medical Sciences

The School of Medical Sciences was established with a mission to "Promote, Nurture and Achieve excellence" in frontier areas of Medical and Health Sciences by offering novel teaching and research programmes. The School has a Scientific Advisory Council-cum-School Board which has eminent biomedical scientists from India and abroad as its members. The School collaborates with the School of Life Sciences and other Schools and Centers of the University involved in Health Sciences research. The School has access to State-of- the art research infrastructural facilities of the Schools and Centers of the University. The School of Medical Sciences has several Adjunct, Joint and Visiting Faculty from the University and other Institutes who actively participate in the multi-disciplinary teaching and research programmes. The School has established academic and research partnership with reputed Institutes recognized by the University like LV Prasad Eye Institute, Care Foundation, Golkonda Hospitals, Fernandez Hospitals, etc. The School has also established memorandum of understandings (MoU) with University of Arkansas for Medical Sciences (UAMS), Little Rock, Arkansas, USA and George Institute for Global Health for academic and research activities. The School offers the following academic programmes:

1. M.Sc. (5-year Integrated) course in Optometry and Vision Sciences: The course is offered in collaboration with LV Prasad Eye Institute, Hyderabad. This novel program is designed to train the students in different aspects of optometry and vision science backed up with extensive practical skills and clinical internship.

Eligibility for the Master of Sceince in Optometry and Vision Sciences:

The eligibility for admission to the course is based on a written test followed by an interview. The written test paper based on XII Board syllabus will have a total of 75 objective type questions in Biology, Chemistry, and basic Medical Sciences.

2. Master of Public Health (MPH):

This Masters programme is offered in collaboration with Indian Institute of Public Health, Hyderabad and other schools of study of the University, viz.., Social Sciences, Management Studies, Economics and Performing Arts and Communication.

Public health has evolved as a multi-disciplinary science which deals with the determinants and defence of health at the population level so as to impact upon and improve the health of individuals in that population. It aims to focus on and influence the multiple determinants of health (economic, social, behavioral and biological) and to undertake and evaluate multi-sectoral interventions to positively influence those determinants. It also involves the study of health systems, their structure and management practices as channels for delivery of health services for all sections of the population.

As India experiences a rapid health transition, it is confronted both by an unfinished agenda of eliminating infectious diseases, nutritional deficiencies, unsafe pregnancies and the challenge of escalating epidemics of non-communicable diseases. With India committing itself to ushering in Universal Health Coverage and many states deciding to implement a public health cadre, there is a need to strengthen skills of professionals (both medical and allied disciplines) to meet the needs of the health systems in the country. At present there is no University or institution offering an onsite accredited MPH program in Andhra Pradesh. Therefore, UOH and Indian Institute of Public Health (IIPH), Hyderabad are uniquely placed to initiate such a programme.

The proposed MPH programme is designed to train interested students so that a committed and skilful public health workforce can be produced. A public health workforce has to be comprised of both medical and allied health professionals so that determinants of health can be effectively tackled. Therefore the proposed MPH program targets all health professionals (both medical and other allied health professionals) to develop a comprehensive health system in the country.

Objectives of the MPH Programme

The major objectives of the MPH programme are to

- Train personnel in program organization and management, problem solving, and critical thinking in the public health domain;
- Promote public health research in institutional and field settings
- Prepare health professionals to work in socially, culturally and economically diverse populations by being attentive to needs of vulnerable and disadvantaged groups (first perhaps?)
- Promote qualities of leadership among public health professionals and effectively use communication skills for health advocacy
- Train health professionals for teaching /training posts in public health institutions

Entrance examination

Students will be selected based on a written test followed by an interview. The question paper will have multiple choice type questions from multi-disciplinary and analytical prospective. Students who have qualified based in the merit order will be called for interview.

The intake of total students will be 40, including 10 students under sponsored category. Selection of 30 students will be as per the above mentioned criteria and the 10 sponsored students will be selected based on their experience, statement of purpose, and interview.

3. Ph.D programme

Candidates having interests in the areas of medicalreserach are highly encouraged to apply for Ph.D. Masters degree in Biochemistry/Animal Sciences/ Biotechnology/ Biosciences/ Toxicology/ Microbiology/ M.Pharm and who are qualified in NET for JRF (CSIR,UGC and ICMR) are eligible to apply.

4. M.Sc. Nutrition and Dietetics

The School also offers two year Masters Course in Nutrition and Dietetics (80 credit course) in collaboration with National Institute of Nutrition (NIN), Hyderabad. The course is offered exclusively for the students of B.Sc. – Nursing enrolled to University of Hyderabad.

Faculty

Professor

Geeta K Vemuganti, MBBS, MD, DNB (Univ. of Rajasthan, Nizam's Institute of Medical Sciences) Adult Stem Biology research, Ophthalmological and visual sciences (**Dean of the School)**

Readers

Suresh Koduru, PhD (Univ. of Hyderabad) – Immunology, Inflammation and Cancer biology

Athar Habib Siddiqui, PhD (AMU, Aligarh) – Integrative physiology, Cardiovascular biology, Hypertension.

Mahadev Kalyankar, PhD (Univ. of Hyderabad)- Diabetes, Insulin resistance and Metabolic disorders.

Assistant Professors

Manchana Varalakshmi, **MSc** (Nursing)

Adhoc faculty

Dr. Ravipet Sarath, MBBS, MD (Physiology)

Mrs N. Geetha Reddy, MSc (Nursing)

Mr S. Lokanadham, MSc (Anatomy)

Mrs Janitha P.A, M.O (Optometry)

Mrs Adari Ramadevi, MSc (Nursing)

Mrs Lokapavani, MSc (Optometry)

Guest Faculty

Dr BR Shammanna

Prof m Seetharamaiah

Clinical Instructors

B. Swathy, MSc Nursing

A. Pavani, MSc Nursing

3. The Centre for Physical Fitness and Sports Sciences works in collaboration with the School of Medical Sciences to promote Physical Wellness programs from a scientific perspective and using an inter-disciplinary approach.

The Objectives of the Centre are:

a. To offer academic programs to promote Physical Wellness

b. To disseminate Physical Wellness concept and its importance to the society

c. To develop Physical fitness movement and to highlight the essentiality of sponsoring the Sports and Physical Fitness Culture on Scientific lines

School of Engineering Sciences and Technology (SEST)

The School of Engineering Sciences & Technology (SEST) was established with a mission and objective "to pursue high quality research and impart research-led education in emerging multi-disciplinary areas encompassing science, engineering and technology". SEST, which began inducting students from the academic year 2008-09 by initiating an integrated M.Tech./Ph.D. programme in Materials Engineering, has started another integrated M.Tech/Ph.D programme in Nano Science and Technology in the academic year 2010-2011. School will progressively expand to offer similar multi-disciplinary programmes in other frontier areas spanning varied engineering disciplines. SEST provides a perfect environment to pursue cutting-edge cross-disciplinary research by taking advantage of the already well-established schools of study at the University, particularly Physics, Chemistry, Mathematics & Computer/Information Sciences and Life Sciences, which have an enviable track-record. SEST will offer courses/research projects in collaboration with these Schools as well as the Nano-Science/Technology Centre, Advance Centre for Research in High Energy Materials, Centre for Modeling, Simulation and Design and Central Instrumentation Laboratory on campus.

SEST is already on course to put in place an ideal framework to facilitate integration of science into technology. It collaborates closely with premier research institutions in the vicinity and some of them, such as the Defence Metallurgical Research Laboratory (DMRL), Indian Institute of Chemical Technology (IICT), International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI) and Nonferrous Materials Technology Development Centre (NFTDC), have been formally recognised as its external research centres. Additionally, SEST is forging close linkages with diverse Indian industries, too, in an effort to build a vibrant program spanning high-quality scientific and applied research. While a few full-time faculty members have already been appointed, and SEST also benefits greatly from the association of three Chair Professors of great eminence; the process of adding several other highly qualified teachers and researchers is presently in progress. In the meantime, the School has been able to attract some renowned experts from DMRL, NFTDC, IGCAR, BARC, ARCI, NFC, etc., as Guest Faculty to participate in student teaching and ensure that high quality knowledge is imparted to its students from inception.

Prof. M. Sundararaman is the Dean of the School.

Infrastructural Facilities

Pertinent facilities relating to the areas of solid state physics, solid state chemistry, nano-technology, thin films, material characterization, etc., are already available at the University to be accessed by the School. Apart from a recently acquired Transmission Electron Microscope, these include other key characterization facilities like X-ray diffractometer, Scanning Electron Microscope, Vibrating sample magnetometer, Spectrophotometers, etc. Core infrastructure such as SEM, optical microscope, XRD, DSC, SPM, Nano Indentor, Microwave Furnace, Non-Equilibrium Alloy Preparation Facility (Mechanical Alloying) and Sample Preparation Facility, have been set-up at SEST in identified areas for teaching and research purpose. CREEP and Tensile Testing Facilities are under installation. Several advanced research facilities are being established with the grants provided by UGC for Pursuing University Research for Scientific Excellence. An opportunity to also use a wide array of sophisticated and unique materials processing and characterization equipment existing at SEST's external research centres opens up exciting possibilities to address cutting-edge research. Between a top class library on campus and those at neighbouring research laboratories, students have access to one of the largest collection of books and journals related to Materials Sciences & Engineering. A new building to house SEST, keeping in view its future expansion plans, is also to be ready soon. Thus, the University is already taking all essential steps to establish SEST as an excellent seat of learning for post-graduate education and research in engineering.

Programmes of Study

(A) M.Tech. in Materials Engineering and Ph.D. in Materials Engineering

The School admits students to the M.Tech. as well as Ph.D. programmes in Materials Engineering.

The M.Tech. programme is of two year duration, of which first two semesters will be devoted to course work. The curriculum lays emphasis on giving a broad exposure to all aspects of Materials Engineering, consistent with the interdisciplinary nature of the subject today, and students also take elective courses. The balance of the two-year period will be spent by students on a research project leading to a dissertation, which will have to be defended in a *viva voce*. The project work can either be done within the University or at one of the recognized external institutions or at an R&D Laboratory or at an industry. This gives students freedom to pursue research in a variety of specialized areas within the broad theme of Materials Science and Engineering.

The Ph.D. programme is entirely research oriented. The student will be provided an opportunity to undertake research under the guidance of a Faculty member of the School in an area of his/her choice and approved by the School. The student will be periodically advised by a doctoral committee. Students admitted to the Ph.D. programme will be required to undergo some course work depending on their background or take certain additional courses to meet the demands of their research. The research work, in part or in entirety, can be carried out either within the University or at one of its formally recognised external research centres. The students are expected to actively participate in research seminars and submit monthly progress reports of their research work. The Ph.D. requirements also include presentation of the research work in a comprehensive seminar prior to submission of the doctoral thesis and a subsequent oral examination in support of the thesis.

Entrance Examination

I. Admission to M.Tech. in Materials Engineering:

Admission to the programme shall be based on a written test followed by an interview for the shortlisted candidates. The School has applied for AICTE approval for the programme from the academic year 2013-14.

The written test will consist of objective-type questions. The syllabus for the test comprises of the typical syllabi of Indian Universities in Materials Science & Technology of BE/B.Tech level; Physics, Chemistry, and Mathematics & Statistics of B.Sc./B.Tech/B.E. level; Solid State Physics & Chemistry at M.Sc. level. Basic knowledge of numerical and computational methods will be emphasized in the question paper.

II. Regular Admission to Ph.D. Programmes in Materials Engineering:

Admission shall be based on a written test followed by an interview for short-listed candidates. UGC-JRF, CSIR-JRF, UGC-NET, DST-INSPIRE and other fellowship holders are encouraged to apply. The written test will consist of objective type questions. The syllabus for the test comprises of the typical syllabi of Indian Universities in Materials Science & Technology of BE/B.Tech level; Physics, Chemistry, and Mathematics & Statistics of B.Sc./B.Tech/B.E. level; Solid State Physics & Chemistry of M.Sc. level and basic knowledge of numerical and computational methods.

Course Work Requirements:

Candidates admitted to the Ph.D. programme with B.E./B.Tech./M.Sc. or an equivalent degree will be required to undergo a mandatory one-semester core course work, besides any additional courses that may be recommended by the doctoral committee to meet the demands of their research.

III. External Ph.D. Registration:

The admission procedure shall be the same as that in the case of regular admissions to the Ph.D. programme.

Candidates admitted under this category shall be free to work at one of the School's formally recognized external research centres under joint supervision of a faculty

member from the University and an approved Ph.D. supervisor from the recognized institution.

Candidates admitted with B.E./B.Tech./M.Sc. or an equivalent degree will be required to undergo a mandatory one-semester of core course work, besides any additional courses that may be recommended by the doctoral committee to meet the demands of their research.

IV. Sponsored Candidates:

Candidates with requisite qualifications, and having at least two years of work experience in Government/Government recognized organizations (Universities/Colleges engaged in teaching and research, Government R&D institutions or R&D centres of industry) are eligible to apply under this category.

The work experience should be in the areas mentioned in the requisite qualifications.

Sponsored candidates are exempted from the written test but must attend and qualify in the interview.

The candidates should submit, along with the applications, a written statement from the sponsoring organization to pay a sum of Rs.1,00,000/- (Rupees one lakh only) (one-time payment) towards the development fund of the department.

All requirements regarding course work etc. shall be the same as that in the case of regular admissions to the Ph.D. programme.

V. Foreign Candidates:

Foreign nationals seeking admission to the M.Tech./Ph.D. (Materials Engineering) programme should also possess the requisite qualifications as in the case of regular students.

Candidates with a high GRE score will be given preference. Candidates should have the ability to communicate in English and, in order to support this ability, a good score in TOEFL is desirable.

In addition, candidates should submit details of the course contents of the qualifying degree as well as letters of reference (along with contact information of the referees) along with their application.

(B) M.Tech. in Nano Science & Technology and Ph.D. in Nano Science & Technology

The School is also offering **M.Tech. in Nano Science & Technology**. The M.Tech. programme is of two year duration, of which the first two semesters will be devoted to course work. The curriculum lays an emphasis on giving a broad exposure to all aspects of Nano Science and Technology, consistent with interdisciplinary nature of the subject today, and students also take elective courses. The balance of the two-year period will be spent by students on a research project leading to a dissertation, which will have to be defended in a *viva voce* examination. The project work can either be done within the University or at one of the recognized external institutions, an R&D Laboratory, or an industry. This gives the students freedom to pursue research in a variety of specialized areas within the broad theme of Nano Science and Technology.

(i) Admission for M.Tech. in Nano Science & Technology:

Admission to the programme shall be based on a written test followed by an interview for the shortlisted candidates. The School has applied for AICTE approval for the programme from the academic year 2013-14.

The written test will consist of objective type questions. The syllabus for the test comprises of the typical syllabi of Indian Universities in Materials Science & Technology and Nano Science and Technology of BE/B.Tech level; Physics, Chemistry and Mathematics & Statistics of B.Sc./B.Tech./B.E. level; Nano Science and Technology at M.Sc. level, Solid State Physics & Chemistry of M.Sc. level and basic knowledge of numerical and computational methods.

(ii) Regular Admission to Ph.D. Programmes in Nano Science & Technology:

Admission shall be based on a written test followed by an interview for short-listed candidates. UGC-JRF, CSIR-JRF, UGC-NET, DST-INSPIRE and other fellowship holders are encouraged to apply. The written test will consist of objective type questions. The syllabus for the test comprises of the typical syllabi of Indian Universities in Materials Science & Technology of BE/B.Tech level; Nano Science and Technology at B.E/B.Tech/M.Sc level, Physics, Chemistry, and Mathematics & Statistics of B.Sc./B.Tech/B.E. level; Solid State Physics & Chemistry of M.Sc. level and basic knowledge of numerical and computational methods.

Course Work Requirements:

Candidates admitted to the Ph.D. programme with B.E./B.Tech./M.Sc. or an equivalent degree will be required to undergo a mandatory one-semester core course work, besides any additional courses that may be recommended by the doctoral committee to meet the demands of their research.

(iii) External Ph.D. Registration:

The admission procedure shall be the same as that in the case of regular admissions to the Ph.D. programme. General guidelines provided for external Ph.D. registration under Materials engineering will be followed.

(iv) Sponsored Candidates:

The conditions given for sponsored candidates under materials engineering will be followed.

(v). Foreign Candidates:

Foreign nationals seeking admission to the Ph.D. (Nano Science and Technology) programme should also possess the requisite qualifications as in the case of regular students. Conditions mentioned for foreign candidates enrollment under Ph.D. materials engineering will be followed.

Faculty

Professors

M. Sundararaman, Ph.D. (Bombay) (**Dean of the School**)

Associate Professor/Reader

Dibakar Das, Ph.D. (IIT, Bombay)

Assistant Professors

Koteswararao Rajulapati, Ph.D. (North Carolina State University)

Pradip Paik, Ph.D. (IIT, Kanpur)

Vadali Srikanth, Dr. Ing. (University of Siegen, Germany)

Rajkishore Dash, Ph.D. (RPI, USA)

Joint Faculty

Professor M. Ghan Shyam Krishna, Ph.D. (IISc., Bangalore), School of Physics

Chair Professors

Kota Harinarayana, Ph.D. (IISc., Bangalore), Pratt & Whitney Chair Professor

K.A. Padmanabhan, Ph.D. (Cambridge, U.K.), University Chair Professor

J.L. Strudel, Ph.D. (Berkeley, University of California), Ecole des Mines de Paris, University Chair professor

Honorary Professor

Gerhard Wilde, University of Munster, Germany

INSA Distinguished Scientist

Professor A.K. Bhatnagar, Ph.D. (Maryland), INSA Distinguished Scientist

INAE-AICTE Distinguished Visiting Professor

G. Madhusudhana Reddy, Ph.D. (IIT, Madras), DMRL, Hyderabad

Visiting Professor

K. Bhanu Sankara Rao, Ph.D. (Madras)

Prof. Marc Fivel, CNRS Research Professor at SIMaPGPM2, Grenoble, INP, France

Guest Faculty

M. Ramanadham, Ph.D. (Osmania) School of Life Sciences, University of Hyderabad

T. Suryanarayana, Ph.D. (BHU), School of Life Sciences, University of Hyderabad

T.R. Ramachandran, Ph.D. Nonferrous Materials Technology Development Centre, Hyderabad

K. Balasubramanian, Ph.D. (McMaster), Nonferrous Materials Technology Development Centre, Hyderabad

K.P. Narayana Murty, Ph.D. (University of Hyderabad) School of Physics, University of Hyderabad.

K. Muraleedharan, Ph.D. Defence Metallurgical Research Laboratory, Hyderabad

M.Vijayalakshmi, Ph.D. (University of Madras), Indira Gandhi Centre for Atomic Research – Kalpakkam

Komal Kapur, Ph.D. (IIT-Bombay), Nuclear Fuel Complex, Hyderabad

R. Balmuralikrishnan, Ph.D. (IISc.), Defence Metallurgical Research Laboratory, Hyderabad

R. Sankara Subramanian, Ph.D (IISc, Bangalore), DMRL, Hyderabad

S.V. Joshi, Ph.D. ARCI, Hyderabad

G. Padmanabham, Ph.D. ARCI, Hyderabad

G. Sai Preeti, Ph.D. (University of Hyderabad, CMSD, University of Hyderabad

Tata Narasinga Rao, Ph.D. (IIT Madras), ARCI, Hyderabad

Abhijit Dutta, Ph.D. (IIT-Bombay), Defence Metallurgical Research Laboratory, Hyderabad (Retd.)

K.G. K. Murty, Welding Research Institute, Trichy (retd.)

T.R. Rama Mohan, Ph.D (IIT Bombay), Professor, IIT, Bombay (Retd.)

K.C. James Raju, Ph.D, School of Physics, University of Hyderabad

P.V.A. Anand, C.R. Rao Institute of Statistics, University of Hyderabad Campus

Aparna Duttagupta, School of Life Sciences, University of Hyderabad

P. Appa Rao, School of Life Sciences, University of Hyderabad

School of Economics

The Department of Economics which was established and started functioning from 1979 has been elevated to School of Economics and started functioning from 18.10.2012. The School offers programmes of study leading to M.A., M.Phil. and Ph.D. degrees. The School also offers a 5-year Integrated MA programme in Economics. The School offers well-balanced courses of study at all levels incorporating Economic Theory, Quantitative Analysis, and Indian Economic Problems.

Prof. G. Nancharaiah is the Dean of the School.

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.

Syllabus for M.A. Entrance Examination : Microeconomic Theory, Macroeconomic Theory, Trade, Public Finance, Mathematics, Statistics, The Indian Economy and Economic Development.

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

The Entrance Examination for **M.Phil.** programme consists of written test and oral test. In the written test, 75 mutiple choice questions will be given on OMR sheets. 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.

Syllabus for M.Phil. Entrance Examination : Microeconomic Theory, Trade, Public Finance, Mathematics, Statistics, The Indian Economy, Economic Development, Theories of Economic Growth and Political Economy.

The Entrance Examination for **Ph.D.** programme consists of written test and oral test. In the written test, 75 mutiple

choice questions will be given on OMR sheets. 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.

Syllabus for Ph.D. Entrance Examination : Microeconomic Theory, Trade, Public Finance, Mathematics, Statistics, The Indian Economy, Economic Development, Theories of Economic Growth and Political Economy, Aspects of Research Methodology and Data Base.

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. Nancharaiah, 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

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.

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

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

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

4

STAND ALONE CENTRES

Centre for Integrated Studies (CIS)

Introduction

In the process of the fulfillment of the set objectives of the University and for imparting specialized education to the students after their +2 level of education, a Centre for Integrated Studies (CIS) was established in the year 2006-07 to offer, in several disciplines, 5-year Integrated programs leading to Master's Degree.

Courses offered by the Centre

The Centre offers Master's Degree (5-year Integrated) courses in Sciences, Humanities and Social Science subjects.

Important points to be noted:

a) All courses are full time regular courses. As of now, there is no provision for exit in the middle.

b) The medium of instruction is English for all the courses except the language programs which will be taught in the language concerned. The students admitted to language programs are required do some common courses, which are taught in English medium. Therefore, proficiency in English is essential.

c) All eligible applicants will be called for the written test to be held at 26 centres, see **Chapter 2**. Proof of eligibility will be verified at the time of admission.

d) Written test for each of these programs is of two hours duration. It will consist of multiple choice questions to be answered in the OMR sheet with black/blue ball point/sketch pen. The level of questions shall be consistent with +2 level of education. There is negative marking; each wrong answer shall be given -0.33 marks. Specific instructions will be given in question papers.

e) The minimum eligibility requirements and the schedule of written test for admission to the above courses are given in a tabular form at **Chapter 2** of this Prospectus-cum-Application form.

M.Sc. (5-year Integrated) Programs from the Science Schools.

The four Science Schools of the University offer Master of Science (5-year Integrated) programs, in Chemical Sciences, Earth Sciences, Mathematical Sciences, Physics, and Systems Biology, through the Centre for Integrated Studies (CIS). The programs are open to all students who have completed/expect to complete +2 stage with at least three of the four subjects (Physics, Chemistry, Mathematics and Biology) as their optionals with a minimum of 60% at +2 level. The curriculum is common to all the disciplines for the first four semesters. Students with biology background in the +2 stage and who had left mathematics after the 10^{th} class are expected to put in the necessary effort to learn mathematics. Similarly students who left biology in the +2 stage are expected to learn biology. The University offers bridge courses in the first semester to facilitate this process. The students spend first two years of their programs at the CIS. The students are transferred to their parent schools at the end of the fourth semester.

M.Sc. (5-Year Integrated) Earth Sciences

The University Centre for Earth and Space Sciences (UCESS) offers an M.Sc. (5-Year Integrated) course in Earth Sciences. Candidates who have studied Science subjects at +2 level with a minimum of 60% marks ae eligible to apply. First four semesters are common to Earth Science students on par with other M.Sc. (5-Year Integrated) Science students.

The admission to M.Sc. (5-year Integrated) in Sciences (Mathematical Sciences, Physics, Chemical Sciences, Systems Biology and Earth Sciences) will be through a common entrance examination. The entrance examination consists of a written test for 100 marks. The written test paper contains 25 objective questions each in Maths, Physics, Chemistry and Biology at +2 level.

Candidates who hold KVPY fellowship, Science Olympiads (those who have at least attended the training

programs conducted by the Homi Bhaba Centre, Mumbai), I.I.T. - JEE 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.

The students are allocated the discipline (subject) of their choice at the time of admission based on their performance in the entrance examination and their preferences. The candidates must give all their four choices in the application form since there is no counselling at a later date.

M.Sc. (5- year Integrated) Program in Health Psychology

The Centre for Health Psychology offers an M.Sc. (5-year Integrated) program in Health Psychology through the CIS. Students who have completed or expect to complete the +2 stage with either Science or Arts subjects with a minimum of with 60% marks are eligible to apply for the program. The students spend two years at the CIS and are transferred to the parent centre at the end of the fourth semester.

The admission to the Health Psychology program is through a written test (100 marks). It includes aptitude test for Psychology at +2 level and test for proficiency in English.

M.A. (5 – year Integrated) Programs from the School of Humanities.

The School of Humanities offers Master of Arts (5-year Integrated) programs in four disciplines: Hindi, Telugu, Urdu and Language Science. All students with a minimum of 60% marks at +2 stage are eligible to apply. The students spend the first three years at the CIS where they are exposed to the basics of several disciplines to provide them a broad foundation. They are transferred to their parent departments/centre at the end of the sixth semester.

There will be a common entrance test for admission to M.A. (5-year Integrated) in Humanities. The written test carries 100 marks. The question paper will be objective type consisting of three parts: Parts A, B, and C. In Part A, there will be 40 questions of one mark each to test the competence in the concerned subject to which a candidate seeks admission. Part B will have 35 questions of one mark each to test the competence in English. Part C will have 25 questions of one mark each to test the competence in the current affairs and general knowledge. Candidates should choose concerned subjects (Telugu, Hindi, Urdu, and Language Science) in Part A according to their options. Questions in Parts B and C will be in English. The questions in Part A will be in English for Language Science candidates and in Telugu/Hindi/Urdu for those who opt for Telugu, Hindi and Urdu respectively.

Candidates will be eligible for admission, only to the subject that they choose for Part A of the written test.

The students are allocated the discipline (subject) of their choice at the time of admission based on their performance in the entrance examination and their preferences.

M.A. (5- year Integrated) Programs from the School of Social Sciences.

The School of Social Sciences offers Master of Arts (5-year Integrated) programs in four disciplines: Anthropology, History, Political Science and Sociology. The School of Economics offers M.A (5-year Integrated) in Economics. All students with a minimum of 60% at +2 level are eligible to apply. The students spend the first three years of their program at the CIS. They are transferred to their parent schools and departments at the end of the sixth semester.

There will be a common entrance test for admission to the M.A (5-year Integrated) program in Social Sciences. Written test carries 100 marks divided into four parts (of 25 marks each) consisting of the following: Part A: Social Studies and General Awareness; Part B: Language and Comprehension; Part C: Reasoning Ability; and Part D: Quantitative Aptitude.

The students are allocated the discipline (subject) of their choice at the time of admission based on their performance in the entrance examination and their preferences. The candidates must give all their five choices in the application form, since there is no counselling at later date.

Courses of study: M.A. (5-year Integrated) Humanities and Social Sciences Programs

Courses of study for students of M.A. (5- year Integrated) in Humanities and Social Sciences at the Centre for Integrated Studies (CIS) are common in the first year. These will be introductory and foundational in nature and will all be taught courses, viz., English, I.T., Indian Languages, Indian Literature, Comparative Literature, Logical Reasoning, Anthropology, Economics, History, Political Science and Sociology. In the second year, a student opting for Humanities has to make a choice of three courses from the School of Humanities including courses of their own discipline and one from the School of Social Sciences. Students opting for Social Sciences will follow a similar procedure, i.e. a choice of three courses from Social Sciences including one from their own discipline and one from School of Humanities. During the third year, a student has to select any one cluster of two courses in their discipline, and a second cluster of two courses in another discipline of their school and one course from any school other than their parent school.

Selection Procedure

The following procedure shall be followed for selecting the candidates for different Master's Degree (5- Year Integrated) courses :

a) All eligible applicants will be called for the written test to be held at 26 centres see **Chapter 2**.

b) The written test will be in the form of objective type questions of +2 standard; It will be for two hours duration to be answered in the OMR sheet with black/blue ball point/sketch pen. There is negative marking for wrong answers. Specific instructions will be given in the question paper/answer book.

Other weightages

a) Weightage for distinction in Sports/Cultural activities will be given, see Chapter 2 .

b) Weightage for candidates from backward districts: Additional weightage is also given to the candidates who belong to backward districts and who have pursued their education upto +2 level in those districts as per the classification/notification of backward districts by the Government of India, for which duly certified proof of residence and education in those districts would be required. 4 marks will be given to the candidates belonging to backward Districts under 1st quartile and 2 marks to the candidates belonging to the backward districts under 2nd quartile.

c) Weightage for linguistic deprivation: 2 marks of additional weightage are also given to those who have pursued their +2 level education in non-English medium which is evident from their educational certificate. In its absence, the applicants should enclose a copy of the medium of instruction certificate issued by the Head of the college or institution where they have studied their +2 level education.

The following criteria shall be followed, one after the other, to resolve the ties, when more than one candidates secure the same total marks in the entrance examination:

(a) *First criterion*: Marks obtained in the entrance examination (written test).

(b) *Second criterion*: Marks obtained by the candidates in the qualifying examination at (+2 level). If the final result is not available, then the marks up to the 1st year will be taken into consideration**.**

(c) *Third criterion*: Marks obtained in the next lower public examination (SSC/Matriculation or equivalent). Candidates whose result of the qualifying examination (+2 stage) is not declared may also apply for admission, see **Chapter 2**.

University Centre for Earth and Space Sciences (UCESS)

University Centre for Earth and Space Sciences (UCESS) was set up at the University of Hyderabad (UoH) during December, 2004 to initiate inter-disciplinary and inter-institutional (industry, R&D laboratories and academia) research and teaching programmes. The hallmark of the Centre, indeed, lies in using synergy between the Earth - Oceanic and Atmospheric realms, Space and Information Sciences to train the technical man power and promote knowledge-driven and job-led economic development of the country. The Centre has strong internal linkage with the Faculty of Physics, Chemistry, Life Sciences, Computer Sciences and Centre for Modeling and Simulation Design (CMSD) on the campus of the University of Hyderabad, and with National Laboratories such as National Geophysical Research Institute, Atomic Minerals Directorate, Indian National Centre for Ocean Information Services (Ministry of Earth Sciences, Government of India), and Industry viz., National Mineral Development Corporation Ltd., and Baldota Industries.

UGC has recognized the Centre and granted faculty and research grants through their Innovative Research Program.

Programmes of Study

The Centre offers one-year and two-year duration postgraduate programmes in collaboration with the National Geophysical Research Institute, Atomic Minerals Directorate and Mining Industry, National Remote Sensing Centre, Indian National Centre for Ocean Information Services (Ministry of Earth Sciences), and also a number of highly focused short term refresher courses to enable cadres to update their knowledge and skills and improve their employment opportunities. The Centre offers M. Sc (5-year Integrated) in Earth Sciences from the academic year 2013. Most importantly, the man power trained at the Centre would have the competence to develop new cutting-edge technologies and skills.

M. Tech. in Mineral Exploration

This is a four semester programme open to candidates with Masters degree in any branch of science with Mathematics as one of the subjects at the B.Sc., level. T**he admission is for both sponsored and non-sponsored candidates. Selection of candidates for admission will be based on their academic qualifications, written test and interview. The performance in the interview will carry marks. Therefore, eligible and interested candidates are encouraged to apply**. Sponsored candidates (or sponsoring agency) will pay fees as stipulated by the University. The geophysical field work expenses will be borne by the respective sponsoring organization.

M. Tech program is of 4 semester course. The first two semesters involve course work followed by 20 credits of dissertation during the third and fourth semesters. The courses and labs include: (1) Gravity, Magnetic, Seismic, Electrical & Electromagnetic Methods, Gamma–Ray Spectrometry, (2) Geostatistics, Mathematical Modeling & Quantitative Methods, (3) Nuclear Geology, Isotope Geochemistry & Instrumental Techniques of Analyses (4) Geochemical Exploration, (5) Spatial Data Management and Remote Sensing, (6) Special Topics, and (7) Geological and Geophysical Field Training for 10 weeks. The third and fourth semesters involve 20 credits of dissertation. The dissertation work may be carried out either at the University of Hyderabad or at the respective host organization of the sponsoring candidates or at any recognized R&D lab/industry.

Note: Those candidates who do not wish to continue after successfully completing the first two semesters of course work of the M. Tech. programme, would be offered an "Advanced P.G., Diploma in Mineral Exploration", provided they complete 8 credits of project work.

Advanced P.G. Diploma in Mineral Exploration

This is a two semester course programme identical to M. Tech with 8 credits of Project work. **Though the admission is meant for sponsored candidates only, non-sponsored candidates may also be considered for admission. Selection of candidates for admission will be based on their academic qualifications, written test and interview.** Sponsored candidates (or sponsoring agency) will pay the fees as stipulated by the University. The

geophysical field work expenses would be borne by the respective sponsoring organization.

M. Sc in Ocean and Atmospheric Sciences

This is a four semester programme open to candidates with Bachelor's degree in any branch of science, who have studied mathematics and physics as compulsory subjects at the B. Sc level, **or** B. Tech degree in civil/mechanical/electrical. T**he admission is for both sponsored and non-sponsored candidates. Selection of candidates for admission will be based on their academic qualifications, written test and interview. The performance in the interview will carry marks. Therefore, eligible and interested candidates are encouraged to apply.**

Total number of seats/intake is 15, of which 5 seats are for the candidates sponsored by the Indian National Centre for Ocean Information Services, Ministry of Earth Sciences. Both sponsored (sponsoring agency) and non-sponsored candidates will have to pay the fee as prescribed by the University.

M. Sc (5 year Integrated) Earth Sciences

This is a ten semester programme open to candidates who have studied science subjects at +2 level, and with a minimum of 60% marks. First four semesters are common to earth science students on par with other M. Sc (5 year Integrated) programs.

The candidates who have come from KVPY, Science Olympiad, Earth Science Olympiad, and IIT JEE main list qualified may be exempted from written test.
Total number of seats/intake is 08.

Ph.D. in Earth and Space Sciences

The Center offers Ph.D. programme in Earth, Ocean and Atmospheric sciences, remote sensing, environmental sciences, water resources and closely related areas of other branches of science.

Laboratory and Computer Facilities

All the students would be utilizing well developed state-of-the-art facilities of the University of Hyderabad, National Geophysical Research Institute and Atomic Minerals Directorate.

A Mobile Geophysical Laboratory, equipped with Electrical Resistivity meter (ABEM Terra meter), Proton Precession Magnetometer, Spinner Magnetometer, T-VLF etc., is available for field training. Gravity meter and portable analytical instruments will soon be added for conducting detailed geophysical, geological and environmental related investigations. Use of state-of-the-art High Performance Computing facility with supporting softwares such as ISATIS, MATHEMATICA, MATLAB, ArcGIS, Geosoft, ERDAS etc., at the Centre for Earth & Space Sciences, and High Power Computing facility at the Cenre for Modeling, Simulation and Design of the University of Hyderabad.

Field work:

Students of M. Tech/ Advanced P. G. Diploma in Mineral Exploration would be undergoing intensive field training programme of 10 weeks duration with emphasis on geophysical exploration techniques under the supervision of experts from AMD, NGRI, University of Hyderabad etc.

Marine Cruises:

Students of M. Sc in Ocean & Atmospheric Sciences would be undergoing intensive offshore cruise programme of 8 weeks duration with emphasis on ocean and atmospheric data acquisition, marine instrumentation etc. under the supervision of experts from NCAOR, INCOIS, and University of Hyderabad etc.

Activities of the Centre

The activities of the Centre are integrated with socio-economic development of the region, with need based inter-disciplinary programmes, which benefit both the candidate and the society.

Research

The Centre currently executes research projects in water resources management, ocean processes, ocean models and climate forecasts, paleoceanography, geophysical applications in mineral exploration, and environmental

sciences (funded by UPE, UGC, MoES, ISRO, NRB, PURSE Grant etc.).

Out-reach Programmes

Management of water resources, reclamation and utilization of bad-lands, environmental management etc. Popularization of earth sciences among school children and public.

Workshops/Training Programmes

Apart from M.Sc., M. Tech., Ph.D. and P.G. Diploma Programmes, the Centre organizes training programmes in Earth & Space Sciences and highly focused short-term refresher courses to enable cadres to update their knowledge and skills and improve their employment opportunities. Most importantly, the programmes are designed to enhance competence to develop new-cutting edge technologies.

Faculty

Prof. A.C. Narayana, Earth Sciences (Director)

Dr. V. Chakravarthi, Applied Geophysics - Gravity & Magnetic

Dr. S. Sri Lakshmi, Geophysics

Dr. P. S. Roy, DST Chair Professor

Associate Faculty

Prof. D. Arun Agarwal, Computer Sciences

Prof. K.P.N. Murthy, Physics

Prof. C. Raghavendra Rao, Computer Science

Dr. Rajeev Wankar, Computer Sciences

Visiting Professors

Dr. Chaitanya Baru, Computer Science-IT, San Diego Supercomputer Centre, Univ., of California, USA

Dr. Shailesh Nayak, Secretary, Ministry of Earth Sciences

Prof. Peter Molnar, Geophysics, University of Colorado, USA

Prof. Randy Keller, Geophysics, University of Oklahoma, USA

Prof. S.K. Tandon, Earth Sciences, formerly University of Delhi

Prof. R. Ramesh, Ocean & Atmospheric Sciences, Physical Research Laboratory

Prof. R. Tatavarti, Ocean Dynamics & Modeling, formerly NPOL, DRDO

Guest Faculty

Scientists from Atomic Minerals Directorate

Scientists from National Geophysical Research Institute

Scientists from Indian National Centre for Ocean Information Services

Prof. B.L. Deekshatulu, Remote Sensing & Image Processing

Prof. A. Narayana Swamy, Geophysics, Andhra University

Prof. I.B. Ram Prasad Rao, Geophysics, Osmania University

Prof. S. Murali, Geophysics, Osmania University

Dr. B. Rajendra Prasad, Geophysics, National Geophysical Research Institute

Prof. Vishwas Kale, University of Pune

Dr. M. M. Ali, Ocean Sciences, National Remote Sensing Centre

Dr. K. Indira, formerly Atomic Minerals Directorate

Sri T. Suryanarayana, Geostatistics, (formerly National Mineral Development Corporation)

Sri V. Kameswara Rao, Geostatistics, National Mineral Development Corporation

Prof. B. Rami Reddy, Ocean Sciences, formerly Cochin University of Science & Technology

Sri G.R.K. Murthy, formerly from NPOL, Cochin

Prof. B.V.S. Murthy, Geophysics, Osmania University

Dr. Kalachand Sain, National Geophysical Research Institute

and faculty from National R&D Labs and Universities from India & Abroad

Advanced Centre of Research in High Energy Materials (ACRHEM)

Advanced Centre of Research in High Energy Materials (ACRHEM) focuses on interdisciplinary research aimed towards achieving an understanding of the theoretical and experimental aspects of the Physics, Chemistry, Mathematics and Statistics of processes involved in High

Energy Materials, along with the Electronics and Photonics instrumentation involved.

The Centre's goal is to develop state of the art facilities and techniques for quantifying the properties of high energy materials (HEMs) and energetic processes. This is done through experiments with lasers, theoretical calculations and computational modeling, and synthesis of novel HEMs and nano-energetics. ACRHEM also aims for high quality teaching with student-faculty ratio highly favorable for individual attention. The centre has various ongoing research programmes both in experimental and theoretical fields to train Ph.D. scholars in fundamental as well as applied areas of Physics, Chemistry, Mathematics and Statistics of processes involved in High Energy Materials.

The following Broad Areas of Research are being pursued at ACRHEM: Synthetic and Computational Chemistry, Computational Physics, Computational & Mathematical Modeling of chemical kinetics of HEMs; THz generation/characterization using photo-conducting antenna, Surface Plasmon characterization and applications; Laser induced shock wave generation and characterization; Time and Spatially resolved spectral analysis under extreme conditions; Development of instruments and technology to observe, measure, by ultrafast measurement techniques the processes involved in the HEM applications and synthesis; tools used include ultrashort pulse lasers in the picosecond/femtosecond time domain and fast detection systems, and smart strategies; Polymer Sciences involving HEMs; Research in Cavitation and Sonoluminescence; Density functional study of HEMs involving electronic structure and mechanical property calculations; Modeling combustion phenomena; Modeling the physics of the release of energy by HEM; Modeling of mathematical and statistical processes of a mixture of HEMs; Material Sciences of HEM; Novel HEM and nano-materials/nano-structures.

More details at www.acrhem.org. The University website may also be referred to further details.

Programs of Study:

Ph.D.: Admission to the Ph.D. programme is open to M.Sc., M. Phil. and B.E./B.Tech. qualified students. This is a research programme with students undertaking research under the supervision of faculty member, on a topic approved by the Centre. The student is required to show satisfactory progress throughout the period of research as well as fulfill other requirements prescribed by ACRHEM. Requirements for successful completion of the programme leading to the award of a Ph. D. degree in physics, chemistry or mathematics, include submission of research results in the form of a thesis and defense of the thesis in a viva-voce examination. Approximately **6 Physics and 1 Chemistry** Ph. D. positions are available during the 2013-14 academic year.

Specialized courses being offered by the Centre may also be taken as optional courses by M.Sc., M. Phil., and integrated M.Sc. students from other schools. Courses being offered and proposed by ACRHEM include courses on Nonlinear Optics, Ultrafast Optics, Combustion Phenomena, Shockwaves & Detonations, Computational Material Science, Polymer Physics and Polymeric Fluids, Fluid Dynamics, Lasers, Spectroscopy, High Energy Materials, Solid State Physics, Electronic Structure theory, etc. , aiming to give students a strong training in both experimental as well as theoretical fields. Ph.D. coursework up to a total of 12-16 credits is mandatory for all the students.

In addition to the Ph.D. programme, ACRHEM also takes Junior and Senior Research Fellows. The duly filled application on the prescribed format of the University should be accompanied by a write up on a plain paper on the purpose and intention of research in HEM as envisaged by the applicant and his / her particular area of research interest.

Entrance Examination:

For admission to the Ph.D. programme in ACRHEM there will be a written test and an interview as per the schedule of the University. The material covered in the written test will

be based on the typical M.Sc. syllabi of Indian Universities in Physics, Chemistry, Mathematics & Statistics. The examination will consist of two parts, Part A and Part B. Part A will consist of 25 objective questions of one mark each, which is compulsory. Part B will consist of three sections -- Physics, Chemistry and Mathematics & Statistics, each having 25 questions. One can answer ONLY 25 questions. Each correct answer gets 2 marks in part B. Those who qualify after writing this entrance examination will then be called for an interview as per the norms of the university. Those who qualify for interview after appearing in the entrance examination of the School of Physics, Chemistry or Mathematics, may also opt to appear for the interview at ACRHEM for admission to the Centre's Ph.D. programme: such interviews shall be scheduled as per requirement.

Infrastructural facilities:

Besides the facilities available in different Schools and Centres of the University, ACRHEM brings the following additional infrastructure to the University pool:

1. Ti:sapphire femtosecond oscillator [MICRA, Coherent] and femtosecond/picosecond amplifiers (~2.5 mJ) [LEGEND, Coherent] with OPA [TOPAS/DFG, Light Conversion, tunable from 250 nm to 20 □m]
2. High power Nd:YAG nanosecond laser system with **f**undamental, second, third and fourth harmonics (Innolas, 1.3 J in fundamental); Dye laser system (Radiant Dyes) pumped by Nd:YAG laser along with frequency mixing option tunable in the range of 300 nm to 3.0 □m
3. Dynamic vibration isolation optical tables (Newport SmartTable™); Low power and High power He-Ne lasers
4. Diode lasers (high power and tunable), Three dimensional nanopositioners, Power/Energy meters, Delay stages and controllers.
5. Boxcar Integrator, Single Shot Autocorrelator, Fast photodiodes, high-power ns/ps/fs optics.
6. Fully fledged synthetic chemistry labs including equipment such as Dynamical Mechanical Analyzer, Bomb Calorimeter, Fume Hoods etc.
7. Hand-held Spectrometers, Fast oscilloscopes, CCD/Vidicon cameras, mid-IR detectors, Single photon detector etc.
8. Mercury Cadmium Telluride Detector (up to 26 □m), IR Viewer, Laser Beam Profiler.
9. Intensified CCD's integrated with Michelle spectrograph.
10. Tunable Ti:sapphire oscillator (Chameleon, ~140 fs pulse duration) and pulse shaper (Sihouette, Coherent)
11. High power picosecond laser system (100 mJ, 30 ps).
12. Tunable diode laser in the telecommunications spectral range
13. Waveguide/Fiber Optic stages for critical alignment.
14. Optical Spectrum Analyzer (Yokogawa)
15. Low temperature optical cryostat.
16. Vacuum chambers, Rotary vacuum pumps, Spin Coaters, Material characterization facilities.
17. Electron beam gun, RF Sputtering, Thin film fabrication facility etc.
18. R.F. spectrum analyzer with antennas (1 MHz – 330 GHz)
19. Several UPS systems

Computer & Library Facilities:

All research workers have personal computers connected to the network of the University with wireless network facility so that internet and e-mail facilities are directly accessible from laboratories and faculty offices. Access is available to a large number of books and journals through the University library, as well as the Centre's library. Access to the University's CMSD / HPCF computer facility is additionally available for simulation work. We are also procuring 12 64-bit Terabyte systems with 16GB RAM.

Faculty

Prof. S. Mahapatra, Ph.D. (IIT**,** Kanpur) - Theoretical Chemical Dynamics, Non-adiabatic Processes (Theory)

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

Dr. S. Venugopal Rao, Ph.D. (Hyderabad) - Nonlinear Optics, Decomposition of High Energy Materials using

ultrafast spectroscopy, Nanophotonics, Ultrashort laser pulses, Femtosecond laser direct writing. (Experiment)

Dr. P. Prem Kiran, Ph.D. (Hyderabad) - Laser - matter interaction, Spatio-temporal evolution of laser induced shock waves; Nonlinear Optics; Nanophotonics; Propagation of Ultrashort, intense femtosecond pulses in atmosphere. (Experiment)

Dr. G. Manoj Kumar, Ph.D. (Hyderabad) - Laser induced breakdown spectroscopy, Spontaneous Emission modification, Interferometry for RI, thickness measurements, Combustion modeling. (Experiment)

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

Associate Faculty

Chemistry:

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

Prof. D. Basavaiah, Ph.D. (Banaras Hindu University) F.A.Sc., F.N.A Organic and Bio-Organic Chemistry (Theory)

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

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

Dr. K. Muralidharan, Ph.D. (IIT, Kanpur) Synthetic main group chemistry and polymers

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

Physics:

Prof. S. P. Tewari, Ph.D. (Delhi) - Quantum Optics, Nonlinear optics (Theory)

Prof. C.S. Sunandana, Ph.D. (IIT, Madras) Condensed Matter Physics (Experiment)

Prof. K.P.N. Murthy, Ph.D. (Hyderabad) Monte Carlo methods in statistical physics and in radiation transport; Walks and first passage time problems in regular and disordered lattices; Self avoiding walks; Stochastic processes; Nonlinear dynamics and chaos. (Theory)

Dr. M. Ghanashyam Krishna, Ph.D. (IISc, Bangalore) Nanostructured materials, Thin Films and Sensors (Experiment)

Dr. K.C. James Raju, Ph.D. (IIT, Chennai) Materials, Processes, Phenomena and characterization techniques in the MW range, Ferroelectric thin films and applications, Microwave Electronics. (Experiment)

Dr. S.L. Sabat, Ph.D. (Berhampur) Digital Signal Processing and Embedded Systems.

Dr. N.K. Viswanathan, Ph.D. (Hyderabad) Interferometry, Fiber Optics, Polymer Optics (Experiment)

Dr. A. Vudayagiri, Ph.D. (Hyderabad) Quantum Optics, Laser Cooling (Experiment).

Mathematics, Computer & Information Sciences:

Prof. C.R. Rao, Ph.D. (Osmania University) Simulation & Modeling, Knowledge Discovery

Prof. Arun Agarwal, Ph.D. (IIT Delhi)
Image Processing, Pattern Recognition and Neural Networks

Dr. R. Wankar, Ph.D. (Devi Ahilya)
Parallel and Grid Computing, Analysis of Algorithms

ACRHEM: Proposed intake for the year 2013-2014:

6 Physics; 1 Chemistry.

Centre for Health Psychology

Health Psychology is a holistic approach to Health and Well being. The holistic approach shifts the emphasis of health from biomedical to biopsychosocial model. Health Psychology is the field within psychology that studies every aspect from wellness to illness. It focuses on health promotion and maintenance; prevention and treatment of illness; the etiology and correlates of health, illness and dysfunction and improvement of health care system.

Prospects of Health Psychologists

- They work closely with medical professionals
- They work independently as Consultant Health Psychologists
- They do research and examine the interaction of biological, psychological and social factors affecting health and illness
- They provide counseling for psychosocial problems may be a trigger or consequence of illness
- They develop worksite interventions to improve employee's health habits

- They work as consultants in organizations to improve health and health care delivery

About the Centre

The Centre for Health Psychology is the first ever Centre in the Country, and was established in the University in 2007. The research focus of the Centre includes biopsychosocial aspects of chronic illness, quality of life, neuropsychological studies, ICU trauma, reproductive health, psychooncology, disability studies, resilience studies, and peace studies.

Infrastructure

The Centre is equipped with a Experimental Laboratory, Counseling Laboratory, Behaviour Technology Laboratory, and Sleep Laboratory. The Experimental Laboratory has modern instruments and about 200 standardized psychological tests. The Counseling Laboratory is a state-of-the-art laboratory to train the students in micro skills of counseling. The Behaviour Technology Laboratory trains students in relaxation therapy using Biofeedback, Neurofeedback, and other Behaviour Therapy techniques. The Sleep Laboratory is equipped with Polysomnography system to conduct research related to sleep.

Programmes of the Study

The Centre offers the following Courses:

- M.Sc. (5-year Integrated) in Health Psychology
- Two year M.Sc in Health Psychology
- Ph. D Programme in Psychology.

Entrance Examination

The Admission to M.Sc. (5-Year Integrated) course in Health Psychology is based on the performance in the national level written test conducted by the University. **There is no interview for M.Sc. (5-Year Integrated) course in Health Psychology.**

The Admission to two year M.Sc. in Health Psychology and Ph.D. progrmame in Psychology are through a national level written examination conducted by the University followed by an interview.

- The test for admission to **M.Sc. (5-year Integrated)** in Health Psychology will assess their aptitude in Psychology and proficiency in English.
- The test for admission into **M.Sc.** Health Psychology will assess their knowledge in Psychology and proficiency in English.
- The test for admission to **Ph. D.** Programme will assess their knowledge in Psychology, Research Methodology and proficiency in English language.

Faculty

Professor

Prof. Meena Hariharan, Ph. D. (Utkal) – Stress & Coping, Invulnerability **(Director of the Centre)**

Reader

Dr. M. Thomas Kishore, M.Phil. (M&SP), Ph.D. (Clin. Psy.) – Clinical and Neuropsychology

Assistant Professors

Dr. G. Padmaja, M.A., M.Phil, Ph.D. **–** Counseling Psychology and Health Psychology

Dr. Meera Padhy, M.A, M.Phil, Ph.D. **–**Developmental and Educational Psychology, Health Psychology

Dr. N.D.S. Naga Seema, M.A. Ph.D. **–** Stress, Reproductive Health and Yoga

Dr. B. Sushma, M.A., Ph.D. - Helath Psychology, Wellbeing, Stress and Resilience, Educational Psychology

Dr. Suvashisa Rana, M.A. (Gold Medal), M.Phil., B.Ed. (SE-MR), LL.B., Ph.D. – Developmental and Educational Psychology, Social Psychology and Peace, Positive Psychology, Test Construction

Visiting Faculty

Prof. J.P. Das, Emeritus Professor, University of Alberta

Prof. A.S. Dash, Retd. Professor, Utkal University

Prof. Kalyana Sundaram, Retd. Deputy Director, National Institute of Nutrition

Prof. T.S. Saraswathi, Developmental and Cross Cultural Psychologist

Dr.S P K. Jena, Associate Professor, Dept. of Applied Psychology, Delhi University

Guest Faculty

Dr. Ravi Kumar Saxena, Oncologist, Indo American Cancer Centre and Global Hospitals

Dr. Kalpagam Polasa, Scientist 'F', National Institute of Nutrition, Hyderabad

Dr. B. Seshi Keran, Director, National Institute of Nutrition

Dr.M.S.Reddy, Psychiatrist, Asha Hospital, Institute of Psychiatric Medicine & Counseling

Prof. Manju Mehta, Professor of Clinical Psychology, In Charge of Child and Adolescent Psychiatric Clinic, All India Institute of Medical Science, New Delhi

Prof. Ahalya Raguram, Head, Depatment of Mental Health and Social Psychology, NIMHANS, Bangalore

Dr.Saroj Arya, Clinical Psychologist, NIMH, Hyderabad

Dr. K. Niranjan Reddy, Clinical Psychologist

Ms. Lalitha Raghuram, Country Director, MOHAN Foundation, India

Dr. K.S. Ratnakar, Global Hospital, Hyderabad

Centre for Neural and Cognitive Sciences

The Center for Neural and Cognitive Sciences is an interdisciplinary research center focusing on studies of cognition from a multi-disciplinary perspective and seeks to answer questions about the nature and mechanisms of mind and mental processes. A truly interdisciplinary center, it brings together Faculty and researchers from various disciplines such as physics, linguistics, computer science, neurobiology and philosophy to ponder upon the nature of cognition. Recently, the Department of Science and Technology of the Government of India has recognized Cognitive Science as one of the four pillars of modern science together with nanotechnology, biotechnology and information technology. Within the short span of its existence the center has received considerable international attention. The Center has a well-equipped laboratory with computing, ERP, Voltage/ Current Clamp and eye-tracking equipment, and offers research programs in neural and cognitive sciences at the M.Phil. and Doctoral levels. The Center has been offering post-graduate courses at the interface of linguistics, philosophy and neurosciences for students majoring in the sciences and the humanities. It has received generous assistance from the University Grants Commission towards major research projects and infrastructural facilities under their Innovative Programs Scheme. The Center is on the network of the National Initiative of the Department of Science and Technology on Cognitive Science Research and has received substantial grants from them. It has received substantial support from the Department of Biotechnology under the Nanoscience Initiative. CNCS has ongoing collaborations with several universities abroad including, University of Potsdam, Geremany; Norwegian University of Science and Technology (NTNU), Norway, University of Cambridge; Institute of Cognitive Science Studies in Tehran; and University of Trento, Italy. CNCS has co-organized IBRO-UNESCO School Computational and Theoretical Neuroscience held in Cape Town, South Africa in December 2011 and consequently invited to host this prestigious IBRO-UNESCO School in Hyderabad from December 5-21, 2012. There is also a proposal to run the DST SERB School on Electrophysiology at CNCS in 2013.

Professor S. Bapi Raju is the **Coordinator of the Center** and **Professor Gautam Sengupta** is the Associate Coordinator.

Programs of Study

The M.Phil. programme in Cognitive Science consists of 16 credits of course work followed by a dissertation. The course work, spanning over two semesters, covers the following topics:

- Formal and Computational Approaches to Cognition: meaning, learning and reasoning
- Empirical Bases of Cognition
- Language, Philosophy and Cognition
- Topics in Cognitive Science: Dissertation Oriented Readings
- Statistical methods and Research Methodology

The Ph.D. programme in Cognitive science involves an additional 16 credits of dissertation-oriented readings in the subsequent semesters of the program, followed by a dissertation.

Eligibility for Admission

For M.Phil. and Ph.D.: Master's degree in any discipline in the Humanities or Social or Natural Sciences with at least 55% marks. Selection is made on the basis of a written test followed by an interview. The question paper will carry 75 objective type questions (75 marks) to be answered in two hours. There will negative marking of 0.33 for every wrong answer. Based on the order of merit in the written examination, the candidates will be called for an interview

(25 marks). The written test is designed to test the candidates general aptitude (verbal and quantitative ability) as well science and mathematics topics at the level of 10th Class. Candidates for M.Phil. and Ph.D. programmes are expexted to come prepared with a Research Proposal for their Viva Voce examination. *All scholarship holders must appeaer for the entrance examination for M.Phil./Ph.D. programmes in Cognitive Science and no exemption is given from the written test for any candidate.*

Faculty

Professor S. Bapiraju, Department of Computer and Information Sciences (**Coordinator of the Centre**)

Professor Gautam Sengupta, Center for Applied Linguistics & Translation Studies (Associate Coordinator of the Centre)

Dr. Joby Joseph, Reader and Ramanujan Fellow of the DST, is the full time faculty member of the Centre.

The following faculty members in various Schools and Departments are also associated with the Centre:

Professor Vipin Srivastava, School of Physics

Professor Amitabha Das Gupta, Department of Philosophy

Professor P. Prakash Babu, Department of Biotechnology

Dr. Prajit K. Basu, Department of Philosophy

Dr. Vineet C. Padmanabhan Nair, Department of Computer and Information Sciences

Dr. S. L. Sabat, School of Physics

Dr. Somsukla Banerjee, CALTS

The Center is in the process of inviting some more Faculty members to join the forum.

Centre for Women's Studies

The Centre for Women's Studies (CWS), at the University of Hyderabad is an interdisciplinary centre in the Schools of Social Sciences, Humanities, Performing Arts, Communication, Management, and Natural Sciences. It is a stand alone centre collaborating with different faculty and schools. It has a Advisory Board comprising of members from different Schools, and members from different Organizations and Universtiies, to run its day to day affairs. The University of Hyderabad had a Women's Studies Cell that has been operational since 1984. This was alternatively located in the School of Social Sciences and School of Humanities. The Cell offered a course titled ***Social Construction of Gender*** as an optional course for M.A. It successfully organized various seminars and workshops and carried out many Projects. This Cell has now been upgraded to a Centre from June 2007 onwards.

Aims and Objectives

- To actively coordinate courses on gender and women in different departments, introduce new areas of gender research.
- Build a systematic data base on gender issues.
- Work towards a Master's programme in Women's Studies and thus enhance the emphasis on inter-face studies in the University as a whole.
- To main stream gender issues in teaching and research.
- Work towards the empowerment of women.

Programme of Study

The Centre offers an **M.Phil.** and **Ph.D.** programme in Gender Studies.

The **M.Phil.** programme is of two semester duration which includes course work and dissertation. The first semester is devoted for course work consisting of 4 courses of 4 credits each. The second semester is devoted for the preparation and submission of M.Phil. dissertation.

Ph.D. students who have not done an M.Phil need to do the course work. Ph.D. students can also take courses related to Women and Gender offered by other departments.

Entrance Examination

M.Phil and **Ph.D.** Examinations assess the students on writing, major essay, short essays and short notes on key concepts in women's studies, understanding of social and developmental issues. In general, candidates interested in pursuing their studies in the Department are assessed in their intensive knowledge of gender studies and also their ability to comprehend general concepts in women's studies along with their skills in writing about gender studies in a comprehensive way. Students seeking admission to the M.Phil. and Ph.D. courses must also take a Viva-Voce examination.

M.Phil. pattern consists of objective type questions, short answers, concepts and long answers. Part - A consists of objective type questions/Concepts (maximum of 25 marks), Part - B, consists of four short answers (maximum of 20 marks) and 2 essays (maximum of 30 marks) related to concepts in women's studies, women's issues, understanding of social and developmental issues. The total marks is 75 for the written exam and 25 for the Viva-Voce examination.

Students are expected to come prepared with a Research Proposal for their Viva Voce examination.

Ph.D. It consists of three parts. **Part A** Consists of Five questions on concepts (maximum of 25 Marks), **Part B** consists of four Short Answer, questions related to Women's/Gender Studies (maximum of 20 marks) and **Part C** consists of Two essay type questions related to Women's issues and research methodology, understanding of Social and development issues, including project proposal (maximum of 30 marks). The total Marks are 75 for the written exam and 25 for the Viva-Voce Examination.

Areas of Research

* Gender Studies, Development Studies, Cultural Studies, Masculinity Studies, Transgender Studies, Feminist Studies, Gendered Economics, Film and Media Studies, Theatre Studies, Women in Sciences, Disability Studies

* Women's movement, Gender and Writing/ translation, Women and politics, women and Religion, women, Society and Law, Women's History, Women and Human Righrs, Women and Body politics, Women and Violence, Sexuality Studies, Migration labour and Women, Women's work, Gender and Discrimination, Gender empowerment, Women and Health, Women and Environment.

Joint Faculty

Rekha Pande, Ph.D. (Allahabad): Women's History, Women's Movement, Women and Religion, Violence against Women, Women and Globalization with special emphasis on Women's work in Agriculture and the ICT sector (**Coordinator of the Centre).**

Bindu A. Bambah, Ph.D. (Chicago): Particle Physics, Non Linear Dynamics (T), Women Science and Gender Issues in Science

Sita Vanka, Ph.D. (Osmania University): Public Policy, Human Resources Management, E-Governance, Entrepreneurship and Women Studies

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

Anita Jagota, Ph.D. (JNU): Neurodegeneration and Brain Aging, Molecular Chronobiology, Cellular and Molecular mechanism underlying Post embryonic neural development. Identification of environmental and social factors influencing age related sleep disturbances in women

Ajailiu Numai, Ph.D. (JNU): Gender, Non-Governmental Organizations (NGO's) and Development, Child and Society, Indian Diaspora, Philanthropy

Core Faculty:

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

Deepa Srinivas, Ph.D. (EFLU, Hyderabad) – Cultural Studies, Critical Pedagogy, Popular Culture, Historiography, Childhood Studies

Centre for Modelling Simulation and Design

PREAMBLE:

The study of passage from the micro world of atoms and molecules to the macro world of solids, liquid and gases calls for an understanding of a variety of phenomena in physics, chemistry, biology, technology and related areas. Atomic lasers, molecular computers, drug-receptor interactions, industrial catalysts, lubricants, and industrially important materials form part of this continuum and an understanding of this evolution needs all the three components of research, viz. theory, experiment and computation. Computer-based simulations now form an integral part of modern research methodology and in this era of science-driven-engineering and directed basic research, the role of scientific research, based on modeling, simulation and design, is of paramount importance. The primary requisite in using the third avenue of research for solving complex problems is a working, state-of-the-art High Performance Computing (HPC) center.

The University of Hyderabad, having expertise in many of the above areas, fully appreciates the inter-dependence of Science, Engineering and Technology, and launched a

uniquely conceived new programme of higher education and research. This initiative was launched through an imaginative programme of the UGC (recognizing the University for its potential for excellence) by establishing a designated Centre for such activity (Centre for Modelling Simualtion and Design – CMSD). This programme has been receiving generous support from DST under its FIST program.

CMSD aims to nurture cross-disciplinary bridges, which are effective in generating new knowledge and creative explorations. The human resources generated from such efforts will be invaluable. Training individuals and organizations in specific hardware and software, undertaking of consultancy and turnkey projects, help convert real life phenomena into appropriate mathematical and computational models etc., are some of the important tasks that CMSD has embarked on. This Centre became operational from its new premises in December 2004.

One of the unique academic features of this Centre is that all the active computational scientists working in widely different academic disciplines in the University Campus are Associate Faculty of the CMSD, and contribute their expertise and experience in furthering its academic objectives. Some of the research interests of these Members include: Physics of low dimensional systems, Topological defects in in fluids in restricted geometries, Critical phenomena in complex fluids and magnetic systems, Monte Carlo simulations and development of novel sampling techniques, Genomics and bioinformatics, Protein folding, Cognitive neuroscience, Computational intelligence, Natural language understanding, Very Large Scale Integration (VLSI), Quantum chemistry and Density Functional Theory, Molecular modeling, Drug design and delivery, Design of new materials etc

Short term courses have been so far conducted in the areas of Parallel Computing, Monte Carlo simulation, molecular modeling etc.

CMSD has been involved, over the past few years, in promoting and fostering multidisciplinary research programmes in *Advanced Computational Methods,* with focus on the core areas of Physics, Chemistry, Biology, Engineering Sciences and Computer Sciences, besides interest in related research areas like Finite Element Analysis as applied to Nanotechnology, Computational Fluid Dynamics, Ocean-atmosphere-climate Modelling, High-End-Visualization/Virtual Reality, Modelling and Simulation of large/complex Systems, etc.

COMPUTATIONAL RESOURCES at the CMSD:

Currently, CMSD is a 30.0 Teraflop Facility which is fully networked and consists of the following hardware:

- 6 SMP Systems with total of 192 CPUs [1 x IBM p690 (32 Power 4), 3 x IBM p690 (96 Power 4+), 1 x IBM p595 (64 Power 5)], 1 x IBM p595 (64 Power 5+) @ 2.3 GHz, 512 GBytes of main memory and 4 TBytes of storage.
- A CDAC PARAM SUN cluster consisting of 16 nodes (each with dual xeon processors) and 32 GB memory.
- High end workstations such as 6 x SGI Octone 2, 2 x SUN Blade 2000, 6 x IBM Intellistations etc.
- SGI Altix 4700 a 128 core (Dual Core, Itanium2 9150M 1.67 GHz) shared memory architecture based Unix server comprising of 512 GB RAM
- SGI Altix ICE 8200 EX Cluster [Enhanced] with 1024 core high performance, high throughput and high availability cluster comprising of 1 GB/core memory, built using Infiniband Interconnect.
- SGI XE1300, 2 x Quad core @ 3.0GHz, 4 GB RAM, 146 GB HDDA 128 core Windows CCS/HPC Cluster.
- SGI IS4600 x 2, 100 TBytes of shared Storage system (FC, SATA) for delivering very demanding data intensive environment, leading to High Performance & Productive Computing Facility, through SGI Altix 450 x 2, 8 core, 48 GB RAM, Montvale 1.67 MHz storage servers.
- SGI Spectra T120 Library, 2 x LTO Gen-4 Drives scalable to 6, Spectralogic 100 slots and 60 units of Media, a good tape backup system to archive data with time stamping.
- Management Servers: SGI Altix 250 SERVER x9 (2U), 2 x Quad core, E5472, 3.00 GHz, 1600 FSB, 12MB Cache, 8GB RAM, 6 x 145GB SAS HDD/15K
- Parallel file system to allow bulk I/O operations.

- IBM POWER 7 - 755 Server with - 4 x 8 core 3.3 GHz Power 7 Processor, 2 x 146 GB DASD, 128 GB DDR3 RAM, Dual port 12x Infiniband HCA, 2 port 10/100/1000 Ethernet PCI Adapter, Primary OS – AIX – 16 Nos.
- IBM StoreWize V7000 based Storage with 60TB RAW Storage Capacity (30 x 2 TB Disks)

To support various application domain areas the following software are deployed on the above hardware: Accelrys Suite, Gaussian 2003, MOPAC, Relibase+, Molpro, ADF, GCG Wisconsin, SPSS, Mathematica, Statistica, GAMS, RATS, Matlab with toolboxes, CFX 5.7, 3D Studio Max, iSIGHT Pro, BOS, BEAMPRO, GAMESS, SPARTAN 2003, NAG Fortran SMP Library, Empire 3D V4.2, Ansys Multiphysics, AWR (Microwave Office), Full Wave Sonnet, ArcGIS, ArcMIS, Cadence, ISATIS, TURBOMOL, Image Processing S/W like ERDUS, etc.

VISUALIZATION FACILITY:

- NVIDIA Quadro FX 5600 Active Stereo Graphics Card
    - Windows XP Professional
    - 750GB SATA Disk Drives
    - 22" LCD Monitor
- SGI Image generator – VN200 system,
    - DVD Drive, 2xGbE Ethernet,
    - Two quad-core Intel Xeon E5462 2.8GHz processors
    - 16GB DDR2 800 REG ECC Memory
    - NVIDIA Quadro FX 5600 Active Stereo Graphics Card
    - SLES10 Linux
    - 160GB SATA Disk Drives
    - 22" LCD Monitor
- Christie Mirage HD6 3chip stereo DLP projector and Lens
- Screen – 9ft x 6ft fabric
- Crosspoint 450 Plus 84HVA Matrix Switcher RGB for Video & Stereo Audio
- Video and Audio interface – Extron RGB109
- Audio Amplifier
- NuVision Active Stereo Glasses
- NuVision Stereo Emitters (mid range)
- Wireless AMX control system

- CEI Ensight Application Software
- Remote Visualization Software Single User

Dr. Siba Kumar Udgata, Associate Professor of the Department of Computer/ Information Sciences is the **Direcotr of the Centre.**

Centre for Distance and Virtual Learning

The Centre is one of the oldest centres of the University of Hyderabad which was officially established in the year 1994 based upon the directions received from the UGC and MHRD. The centre initially started with two diploma progrmammes. Presently it is offering sixteen one year Post Graduate Diploma programmes which are employable, knowledge oriented and skill developing programmes. These programmes are offered through distance mode i.e. correspondence cum contact programmes. Most of the students are working employees from various state and central government offices, few are IAS and IPS officers, lawyers, magistrates; Some are executives from multi national companies, corporate sectors, NGOs and also housewives. These distance programmes are also approved by the UGC-AICTE-DEC joint committee.

In order to maintain the standards in the quality of teaching in distance courses, the regular faculty form the University have put their best efforts in desiging the courses, framing the syllabus, development of study material and conducting the contact classes. The regular faculty is also involved in the examination and evaluation process. Though there is lot of demand all over the country for these courses, the university has not permitted any study centres as the quality of teaching at the study centres will differ from the main campus. The students of these programmes have to attend 6 to 10 days for the contact classes once a year except for some management courses, where they have to attend twice in a year.

The UGC-AICTE-DEC joint committee visited the University and gave its approval in principle to all the courses being offered by the Centre for Distance and

Virtual Learning. The DEC has also sanctioned Rs.25.00 Lakhs to the Centre. As per the new MHRD and DEC, New Delhi guidelines, the centre is going for ICT based learning from the year 2012 onwards.

The Centre for Distance and Virtual Learning is offering post graduate diploma programmes in association with the following organiztions for the benefit of the students:

1. NIRD (National Institute for Rural Development)
2. NAARM (National Academy of Agricultural Research Management)
3. BSNL (Bharat Sanchar Nigam Limited)
4. Truth Labs &
5. GVK Biosciences

This year the Centre has given notification for the following 16 PG Diploma courses for which tha admissions are in progress. The last date for the submission of the filled in applications is 31.01.2013.

S. No	Course Code	Name of the Course	Eligibility
1.	**PGDPM**	Post Graduate Diploma in Project Management	Any graduate from a recognised university
2.	**PGDCAQM**	Post Graduate Diploma in Chemical Analysis and Quality Management	Any graduate with chemistry as one of the subjects from a recognised university
3.	**PGDCL&IPR**	Post Graduate Diploma in Cyber Laws and Intellectual Property Rights	Any graduate from a recognised university
4.	**PGDBM**	Post Graduate Diploma in Business Management	Any graduate from a recognised university
5.	**PGDCJ&FS**	Post Graduate Diploma in Criminal Justice and Forensic Science	Any graduate from a recognised university
6.	**PGDG**	Post Gradaute Diploma in Governence	Any graduate from a recognised university
7.	**PGDHR**	Post Graduate Diploma in Human Rights	Any graduate from a recognised university
8.	**PGDTC**	Post Graduate Diploma in Tele Communications	Any graduate in Maths and Physics or Electronics as one of the subjects from a recognised university
9.	**PGDCE**	Post Graduate Diploma in Communicative English	Any graduate from a recognised university
10.	**PGDTSH**	Post Graduate Diploma in Translation Studies in Hindi	Any graduate with Hindi as one of the subjects from a recognised university
11.	**PGDMC&TTT**	Post Graduate Diploma in Mass Communication and Translation Techniques in Telugu	Any graduate with Telugu as one of the subjects from a recognised university
12.	**PGDMC&TTU**	Post Graduate Diploma in Mass Communication and Translation Techniques in Urdu	Any graduate with Urdu as one of the subjects from a recognised university
13.	**PGDMB**	Post Graduate Diploma in Medicinal Botany	Any graduate from a recognised university
14.	**PGDSRD**	Post Graduate Diploma in Sustainable Rural Development	Any graduate from a recognised university
15.	**PGDTMA**	Post Graduate Diploma in Technology Management in Agriculture	Any graduate from a recognised university with two years experience
16.	**PGDBI**	Post Graduate Diploma in Bioinformatics	Sicence graduates with 60% marks from a recognised university

Academic Team

1. Prof. S.Jeelani – Director – M.Sc, Ph.D (Pharma)

Specialisation – Pharmacognosy, Pharmacology, Photochemsirty, Taxonomy, Anatomy, Medicinal Plants

Post Doctoral Research – Environmetal Impact Analysis Uisng satellite data, Biodiversity GIS, Digital analysis, Cartography.

2. Dr. (Mrs) Neelima Volety – M.A, Ph.D (Criminal Justice)

Specialisation Topics – Sociology and Social Legislation, Criminology, Psychology and Criminal Behaviour, Police Administration, Criminal Justice Administration, Human Rights and Ethics

Research Topic – "Whistle blowing as an Anti –Corruption Tool – A Study"

Infrastructure

Currently the Centre has the infrastructure facilities like the computer lab and library. It is in the process of renovating the entire campus facility with features like the green landscape with sufficient illumation, museum, research laboratory etc at Golden Threshold Building Campus, Abids – Hyderabad.

Contact Address:

Centre for Distance and Virtual Learning

University of Hyderabad

City Campus, Golden Threshold Building,

Nampally Station Road, Hyderabad – 500001

Tel: 040-24600264 Fax: 040-24600266

E-Mail: cde@uohyd.ernet.in, directorcde@uohyd.ernet.in

Website: www.uohyd.ac.in

Academic Staff College

Academic Staff College, University of Hyderabad is one of the 66 colleges established by the University Grants Commission. It is an important academic wing of the University. Apart from the training programmes for teachers, the Academic Staff College conducts Professional Development Programs for Principals and Administrators. The faculty is also taking up the teaching assignments and research guidance in their respective departments.

During the year 2010-2011, the ASC organized Six Orientation Courses, Eight Refresher Courses, two workshops on *Research Writing and Publication* in joint collaboration with Economic & Political Weekly for Scoial Science Teachers; One Professional Devlopment Programme, One Principal's Workshop, Two day Seminar on Reforms in Governance and Administration and one day National Semianr on Youth for Police Reforms.

During the year 2011-12, the ASC is proposed to organize five Orientation Courses and ten Refresher Courses in subjects proposed by Academic Advisory Committee and approved by University Grants Commission, two professional development courses.

The Mandate

Professional training is a powerful measure in upholding teacher competence and sustaining teacher motivation. The Orientation Courses are for duration of four weeks. These are essentially concerned with the objective of sensitizing participants on current issues of higher education and immediate social relevance. Due emphasis is laid on strengthening skills in teaching and communication and bringing innovations in teaching. Attempts are made in motivating and developing competence in scientific research. The young teachers, with less than eight years of experience are eligible for enrolling in these courses.

The Refresher Courses are organized for duration of three weeks. The objective of these courses is to update the teachers with recent developments in their concerned disciplines. The Academic Advisory Committee (AAC) decides the subjects for Refresher Courses for the year. The Refresher Courses in various subjects have a definite thrust area.

Academic Staff College also organizes weeklong workshops for the principals of degree colleges from Andhra Pradesh and neighbouring States. Every workshop is structured on a definite theme. The college has so far organized Eleven Workshops for the Principals.

Apart from these programs, one week training program namely 'Professional Development Program' is organized fro senior teachers adnadministrtions in a focused theme.

Faculty

The academic team of the College consists of the Director, Lecturer.

Director - Prof. Y. Narasimhulu (on EOL)

Hon. Director Prof. R.S. Sarraju Dept. of Hindi

Specialisation -Non-linear Differential Equations, Differential systems

Research Focus - Mathematics, Higher Education, Human Resource Management

Lecturer - Dr. S. Sudhakar Babu
Specialisation - Public Policy, Equality of Opportunities and Dalit Studies, Public Policy for Good Governance, Policy Studies, Civil Society, Training and Higher Education
Research Focus - Training, Higher Education and Literacy

Besides the core academic team, the College invites a number of Resource Persons from Universities, Training and Research institutions

Infrastructure:

The college has access to all the infrastructure facilities of the University like the Computer Lab, Central Library and Sophisticated laboratories. Besides these, the College itself has a good library with 3300 books, journals and magazines and a good computer lab with 50 systems which provides hands on experience on MS Word, Power Point, Web Design, SPSS, e-Content and Wikipedia to the participants.

5

ACADEMIC & STUDENT SERVICES

Indira Gandhi Memorial Library

The IGM Library is a central facility to support the teaching & research activities of the University. Over the years, the library has been successfully catering to the information needs of all the academic community viz., teachers, research scholars and students of Basic Sciences, Applied Sceinces, Medical Sciences, Engineering Sciences, Social Sciences, Humanities, Arts, Fine Arts, Communication & Media Studies and Management Studies.

The library has a rich collection of more than 3.7 lakhs books & back volumes of journals. The library subscribes to around 540 print journals, popular magazines & newspapers in English and Indian languages. The library provides access to over 18,000 e-journals from several publishers directly and with the help of UGC-INFONET. For the benefit of students and faculty the library provides Intranet access to around 2,889 e-books. Important text books and a small collection of books especially for weaker section students are kept in a separate room (book bank).

The National Board of Higher Mathematics (NBHM) has recognized this library as a "Regional Library" for Mathematics and provides financial support for the acquisition of Mathematics & Statistics journals for advanced research. The Library is an active member of the UGC-INFLIBNET program and has been identified as one of the 22 Document Delivery Centres in the country. The library building is disabled friendly and has special systems and software for visually-challenged students.

The University library has achieved several distinctions in the country for application of Information and Communication Technologies. It is the first University Library in India to computerize all its in-house operations and services; the first to cater information services to all Schools/Departments via the Campus-wide Local Area Network; the first University Library to subscribe to electronic books and journals; the first library to undertake turn-key projects of computerizing two libraries in the city; the first to become the governing council member of the OCLC, USA; the first installing an Electronic security gate with magnetic detector; the first in starting a Post-Graduate Diploma course in Library Automation and Networking (PGDLAN); and the First Library to start Digitization of Indian language books under UDL project.

The library is open throughout the year except on national holidays – Republic Day, Independence Day, Gandhi Jayanthi, Dussehara and Diwali. The working hours are from 8.30 a.m. to 11.30 p.m. on all working days and from 9.00 a.m. to 5.30 p.m. on Saturdays, Sundays & other Holidays. The library has a separate A/C reading room which is kept open round-the-clock for the benefit of students.

Central Instruments Laboratory (CIL)

Central Instruments laboratory (CIL), is a central facility with state of art analytical Instruments to cater to the needs of the Science Schools and other institutions. The list of instruments at CIL covers braod based fields viz., microscopy, diffraction based and magnetic property measurement and these Instruments can also be used round the clock. The list of instruments are : Environmnetal Scanning Electron Microscope (SEM) with Energy Dispersive Spectometer, Powder X-Ray Diffractometer (XRD), Vibrating Sample Magnetometer (VSM), Electron Spin Resonance (ESR) Spectrometer, Differential Scanning Calorimeter, Protein Sequencer, HPLC based high performance Amino Acid Analyzer, Circular Dichroism (CD) Spectrometer, Differential Scanning Calorimeter (DSC), Thermogravitometer-DTA (TG-DTA).

The areas of specialization of the CIL include Mass Spectrometry, Radiation Spectroscopy (X-Ray, UV-VIS-IR), Microscopy, Advanced Electronics, Design and

Development of Microprocessor and Microcontroller – based Systems, Embedded Systems, Advanced Instrumentation systems deisgn and maintenance.

Computer Centre

The Computer Centre was established as a central facility to facilitate, foster and support the essential teaching and research goals of the University of Hyderabad through the deployment and delivery of computing and communication services to the University's faculty, students, officers, and staff. To assist research, there is a wide range of computing environment available, backed by staff with considerable expertise to assist researchers. Currently the centre has systems, which provide Windows environment to the users.

In 1993, ERNET selected University of Hyderabad to be one of the transit nodes with the addition of a VSAT dish antennae, which is operational at the Gachibowli campus, but with a narrow bandwidth of 9.6 Kbps.The transit node operational at the computer centre is also providing Email/Internet services to educational and research organizations in Andhra Pradesh such as IDRBT, NFC, DMRL etc. Further 128 Kbps microwave and 2 Mbps backbone links were established in the year 2000, 2001 respectively. UGC funds allocated in the year 2000, helped in increasing the number of terminal points available to users. UGC grant allocated in the year 2001 helped in establishing the 1 Gbps structured SM fiber optic network for the university. Also 2 Mbps point-to-point leased line between UOH and IDRBT, 2 Mbps UOH - Infosys (Hyderabad) – Bangalore leased line, and 128 Kbps ISDN lines were established. In the year 2006, the bandwidth was upgraded to 4 Mbps. In the year 2008 the bandwidth was upgraded to 68 Mbps, and new buildings, quarters, and hostels are brought under the backbone. Wi-Fi towers are also erected at different locations to have wireless connectivity for the users. In the year 2010 the band width was upgraded to 1 Gbps.

The Centre is having Internet/Email, programming, and word processing rooms to enable users to execute various tasks. The Centre has number of systems like wireless PCs, and several Pentium systems. New Email server is installed and is operational for use by various users. Authentication for security purposes servers are also installed. The Centre also has Colour and Black/White Laser printers, Scanner, CD Writer, LCD Projector, and different peripherals. NAAC committee commended on the Computer Centre facilities and its upkeep. X plan visiting committee commended on the progress made by Computer Centre.

Qualified officers help in teaching MCA/MBA/M.Sc students of various Schools and Departments. They also guide students in completing their project works and are invited to give lectures during orientation programmes in Academic staff college, and various Centre for Distance Education programmes.

The Centre has entered into Campus-wide software license agreement with M/S Microsoft. The Centre offers advice and consultancy to users to these central facilities and assist in solving problems users might have on their equipment. The Computer Centre have operators, programmers, systems programmers, systems managers, systems analysts.

Health Care

The University Health Centre, managed by a team of doctors, supported by nurses / para medical staff caters to the **basic Out Patient treatment and few beds for emergency Inpatient treatment.** The health Centre has an X-Ray Unit, an ECG machine and a dedicated laboratory for conducting various clinical investigations. Specialists such as Ophthalmologist, Orthopedician, and Physiotherapist will be available on specific days. The services of a **Student Counselor** is available near the Chief Warden's Office. Round-the-clock **Ambulance** facility is available for emergency purposes in addition to the Emergency Ambulance (108) provided by the Govt. of Andhra Pradesh.

At the time of admission every student shall submit a physical fitness certificate and also **an undertaking to the Health Centre, signed by the parent/guardian to the effect that "any hospitalization/medical treatment**

expenses shall be born by the parents/guardians of the student concerned and the university is not responsible for treating the major diseases/ailment occurred while pursuing studies in the University."

However, the University will assist them in providing a Medical Insurance Card (valid for one year) from a standard insurance company, which they may use for hospitalization.

Hostel Accommodation

There are altogether 19 hostels on the campus, of which 12 are for men and 7 are for women. Foreign students, unless they opt not to, are accommodated at the Tagore International House.

Due to paucity of Hostel accommodation, the University cannot guarantee Hostel accommodation to all the students admitted into various programmes / courses. No student admitted to the University can claim the Hostel seat as a matter of right. The hostel will be allotted to the students based on the distance from their present place of residence with sufficient proof.

No hostel accommodation will be provided to the students admitted from the places within the limits of Greater Hyderabad Municipal Corporation (GHMC).

Reservation of seats: Of the total number of available seats in a particular academic year in the hostels, 22.5% are reserved for candidates belonging to SC/ST and 3% for Persons with Disability (Physically challenged candidates).

The hostel accommodation may be provided subject to the availability of seats in the hostels for a maximum period of PG course -02 years; MCA. and MPA Theatre Arts -03 years; M.Phil.-1½ years; Ph.D. up to 05 Years; Integrated Masters -05 years. **In no case, the stay will be extended beyond the above stipulated period.**

The students are required to submit 'proof of nativity' at the time of hostel admission. They can submit a 'Nativity Certificate' issued by the Revenue Officer/ Tahsildar or any other relevant certificate issued by competent authority of their respective native place as proof of residence.

Mess facility attached to different hostels is compulsory and is completely managed by the inmates. Even if a boarder does not avail the mess facility, a minimum of 10 days' mess bill will be charged every month. The average vegetarian monthly mess bill at current prices (Breakfast, Lunch and Dinner) for women worked out to approximately Rs. 1000/- and for men Rs. 1200/- during earlier years. The rules and regulations in the Hostel Hand Book, periodically updated at the University's website, is binding on all boarders.

Students Welfare

The office of the Dean of Students Welfare looks after the welfare of the students with active support from the elected representatives of the students, Faculty and administration. A Student Counseling Service by professionals is available in the University. In case of any student requiring parental guidance, his/her parents will be informed accordingly.

There is a Students' Union which caters to the students' interests and promotes cultural and sports activities. The elections to the Students' Union are conducted by the students themselves.

Discipline among students

All powers relating to discipline and disciplinary action in relation to the students of the University are vested in the Vice Chancellor. He may delegate all or any of his powers as he deems proper to any of the officers of the University specified by him.

Ban on ragging on the campus: Ragging, use of drugs, drug trafficking and eve teasing, which are criminal offences, are strictly forbidden in the University and persons found indulging in such activities will be subjected to strict disciplinary and other action in keeping with the law of the land. Indulging in any criminal activity within or outside the University and any physical violence against

fellow students and fellow residents will not be tolerated and will attract stern disciplinary action including rustication. As per the orders of the "Hon'ble Supreme Court of India" if any incident of ragging comes to the notice of the authority of the University, the concerned student should be given liberty to explain and if his explanation is not found satisfactory, the authority would expel him/her from the University.

Committee on violence against women and sexual harassment: As suggested by the UGC, a Committee has been constituted with Dean, Students' Welfare, Chief Warden, Women Faculty members, Women students, Students' Union and Teachers' Association as members, to combat the menace of violence and sexual harassment against women on the campus**.**

Proctorial Board : The Proctorial Board shall examine all disciplinary and related issues pertaining to the students. All students misconduct /indiscipline related cases shall be brought to the notice of the Chief Proctor. Based on the gravity of the case, the Proctorial Board shall make appropriate recommendations to the Vice-Chancellor.

Games and sports

The department is equipped with a centre for Games and Sports. The centre consists of a well equipped international standard indoor stadium accommodating indoor games like shuttle badminton etc.

The centre is also now equipped with a Fitness Centre where students can participate in various fitness programs. This centre is catering the needs of fitness through the state of the art equipment, and the fitness centre is poised for further development in the present year.

The department also houses a Yoga Centre in which Yoga classes are given for the students and other interested university community. It also offers a certificate course in yoga to instill further motivation among the student community.

The department also is promoting the sports and games culture among the student community by well organizing coaching camps in various disciplines for the University teams.

The department also houses a Tennis Courts Complex near Yoga Centre and imparting coaching in Tennis to the University Community.

The University is also a member of the Inter University Sports Board of India and its teams participate in Zonal and All India Inter University Tournaments regularly, apart from this the department also organizes annual inter school competitions to inspire the student community to involve in physical games and improve their health status.

Financial Support

The University offers financial assistance to the students admitted to the following programmes of study, particulars in brief are :

- M.Phil. students will be paid fellowship @ Rs. 3,000/- p.m. for one year only (funded by UGC).
- Ph.D. Scholars will be paid fellowship @ Rs. 5000/- p.m. for a period of 3 years, extendable by one more year in exceptional cases with specific & tangible justification from the Supervisor/Doctoral committee (funded by UGC).

Concessions to Visually Challenged students: Concessions to blind students are provided by the University as per the UGC guidelines from time to time which inter-alia, include exemption from all kinds of fees, payment of Reader's allowance @ Rs. 1000/ p.m. in respect of PG/ M.Phil/Ph.D. students and Rs. 1500/- for JRF holders for the employment of a Reader, an annual grant of Rs. 500/- for guide charges, extra time of 20/30 minutes for writing examination paper of 2/3 hours respectively and permission to use a personal typewriter during examinations. In addition to this, the blind students are eligible for scribe charges @ Rs.150/- for Internal Exams/Term papers and Rs.300/- for end-semester examinations. Special stationary charges @ Rs.500 per annum.

Fellowships for research studies

UGC Fellowships: UGC JRFs pursuing their research work leading to M.Phil. and Ph.D. in Sciences, Humanities and Social Sciences are paid a fellowship of Rs. 16,000/- p.m. for the first two years and Rs.18,000/- p.m. for the subsequent years.

Rajiv Gandhi National Fellowships sponsored by the Ministry of Social Justice for SC/ST candidates to pursue M.Phil and Ph.D. Degrees: The SC/ST Scholars enrolled for Ph.D. and M.Phil programmes in the University have to apply for this Fellowship as and when the University Grants Commission issues the Notification. The value of JRF is Rs. 16,000/- p.m. for the first two years and the value of SRF is Rs. 18,000/- p.m. for the subsequent years.

Maulana Azad National Fellowship for minority students funded by Ministry of Minority Affairs to pursue M.Phil. and Ph.D. Degrees : The minority scholars enrolled for Ph.D. and M.Phil programmes in the University have to apply for this Fellowship as and when the University Grants Commission issues the Notification. The value of JRF is Rs. 16,000/- p.m. for the first two years and the value of SRF is Rs. 18,000/- p.m. for the subsequent years.

CSIR Fellowships: The CSIR JRFs pursuing research are paid a fellowship of Rs.16,000/ p.m. for a period of two years which may be increased to Rs.18,000/ p.m. for the subsequent years.

Fellowships from other sources: In addition to the above, provision exists for securing JRFs/SRFs in various research projects/direct fellowships being operated in the University financed by Govt. Agencies and other Organizations such as the UGC, CSIR, DST, DAE, ICMR, ICSSR, NBHM, etc. *JRF test qualified candidates admitted to M.Phil. and Ph.D. programme may apply for these positions in response to the notice issued by the project investigators. Apart from the above, any other fellowship(s) announced by other funding body/bodies from time to time will be processed as per the rules.*

Post Graduate Merit Scholarship Scheme for University Rank holders at Undergraduate level:

The University Grants Commission on the basis of a recent initiative of MHRD, has introduced the Post-Graduate Merit Scholarship for University Rank Holders (in General and Honours courses at University levels). The selection will be purely on Merit basis. The value of each scholarship is Rs.2,000/- p.m. and duration is for 2 years.

Post-Graduate Indira Gandhi Scholarship Scheme for single girl child:

The University Grants Commission, on the basis of a recent initiative of MHRD, has introduced the Post-Graduate Indira Gandhi Scholarship for Single Girl Child as an incentive for the parents to observe small family norms. The value of each scholarship is Rs.2,000/- p.m. and duration is for 2 years.

NOTE*: Applications for UGC sponsored Scholarships are invited by the UGC through Press Notification. Students are advised to watch for advertisement in News Papers and respond accordingly.*

M.Sc. Biotechnology Scholarships:

The students admitted to M.Sc. Biotechnology are eligible for scholarship @ Rs. 1200/ per month for the entire duration of the course (i.e. 2 academic years) funded by the Dept. of Biotechnology, Govt. of India.

Financial assistance from other sources: The students of the University are also eligible to apply for the award of the following Scholarships given by the Govt. of India and the Govt. of Andhra Pradesh subject to their fulfilling the conditions prescribed in each case.

a) GOI National Merit Scholarship
b) GOI Post Matric Scholarships for SC/ST students
c) GOI Scholarships for non Hindi speaking students for Post Matric studies in Hindi
d) GOI Scholarships for physically handicapped
e) GOI Scholarships for Ex-Servicemen/Freedom Fighters' children, Minority students
f) A.P.Govt. EBC Scholarships
g) A.P.Govt. State Merit Scholarships
h) A.P.Govt. Listed Backward Classes Scholarships

i) A.P.Govt. Scholarships for the children of deceased Govt. servants who died while in service.

j) A.P.Govt. Scholarships and book grant to children of political sufferers.

k) A.P. Govt. Minority scholarships

l) Other State Government Social Welfare scholarships

NOTE*: Payment of scholarships awarded/funded by external agencies like UGC, CSIR, AICTE, ICSSR, ICMR, DST, DBT, DAE, NBHM etc. shall be made only after receipt of the sanction and scholarship amounts by the University.*

TEACHING AND EVALUATION REGULATIONS

Special features

The special features of the University's academic set up include a favourable teacher student ratio (1:9/10); a flexible academic programme that encourages interdisciplinary courses and research. The assessment, including projects and examinations of the Postgraduate/PG Diploma courses is continuous and internal.

Semester system

The courses are organised on the semester pattern. The academic year consists of two semesters of 16 to 18 weeks each. July – December is the Monsoon semester and January – June is the winter semester.

Continuous internal assessment

The examination system of the University is designed to test systematically the student's progress in class, laboratory and field work through continuous evaluation in place of the usual "make or mar" performance in a single examination. Students are given periodical tests, short quizzes, home assignments, seminars, tutorials, term papers in addition to the examination at the end of each semester. The final result in each course is calculated on the basis of continuous assessment and performance in the end semester examination.

Attendance and progress of work

Students should attend at least 75% of the classes actually held in each course (at least 60% if the same course is repeated for writing the end-semester examinations) and participate, to the satisfaction of the School/Department/Centre, in seminars, sessionals and practicals as may be prescribed. The progress of work of the research scholars and their attendance is regularly monitored by their supervisors. **Absence from classes continuously for 10 days shall make the student liable to have his/her name removed from the rolls of the University.** Absence on medical reasons should be supported by a certificate which has to be submitted soon after recovery to the respective School/Department/Centre.

Summer Semester

In order to help the MA/M.Sc. (5-Year Integrated) students having more backlogs than allowed, classes will be held during May/July subject to the availability of the teachers.

Evaluation regulations

1. The performance of each student enrolled in a course will be assessed at the end of each semester. Evaluation of all P.G., Advanced P.G./P.G. Diplomas, M.Phil., M.Tech and Integrated PG courses is done under the Grading System. There will be 7 letter grades; A+, A, B+, B, C, D and F on a 10 point scale which carries 10,9,8,7,6,5,0 grade points respectively.

2. The final result in each course will be determined on the basis of continuous assessment and performance in the end semester examination which will be in the ratio of 40:60 in case of theory courses and 60:40 in laboratory courses (practicals).

3. The mode of continuous assessment will be decided by the School Board concerned. The students will be given a minimum of three units of assessment per semester in each course from which the best two performances will be considered for the purpose of calculating the result of continuous assessment. The record of the continuous assessment will be maintained by the School/Department/Centre.

4. At the end of the semester examination, the answer scripts shall be evaluated and the grades scored by each student shall be communicated to the Dean of the School/Head of the Department/Centre for onward transmission to the Office of the Controller of Examinations. Wherever required, the Dean / the Head of the Department/Centre along with the teacher concerned may moderate the evaluation.

5. (a) Students should obtain a minimum of 'D' grade in each course in order to pass in the Postgraduate, Adv. PG/ Postgraduate diploma, M.Phil, M.Tech and Integrated PG courses. Students who obtain less than 'D' Grade in any course, may be permitted to take the supplementary examination in the course/s concerned within a week after the commencement of the teaching of the next semester or in accordance with the schedule notified. Appearance at such examinations shall be allowed only once. Those students who get less than 'D' grade in the supplementary examination also shall have to repeat the course concerned or take an equivalent available course with the approval of the Head of the Department/Centre and the Dean of the School concerned. Such approval should be obtained at the beginning of the semester concerned.

   (b) In order to be eligible for award of medals/prizes and ranks etc., the students should complete the course within the prescribed duration. The grades obtained by the student in the supplementary/ repeat/improvement examinations shall not be taken into account for the award of medals/prizes/ranks etc. Further, for the purpose of award of M.Phil. and M.Tech. medals, prizes and ranks, the student should complete the course, examination and submission of dissertation etc., within a maximum period of three and five semesters respectively from the date of the admission to the course.

6. (a) No student of PG/Adv. PG/PG Diploma/M.Phil, and M.Tech**,** shall be permitted to move to the next semester, if he/she has a backlog of more than 50% of the courses of a semester concerned subject to a maximum of two backlogs where the number of the courses in a semester are four and a maximum of three backlogs where the number of courses in a semester are more than four at any given point of time including the backlogs of the previous semester, if any.

   (b) No student of M.A./M.Sc. (5-year Integrated) courses shall be allowed to move to the next semester, if he/she has a backlog of more than 50% of the courses of a semester concerned subject to a maximum of 5 backlogs at any given point of time including the backlogs of previous semester/s, if any.

7. The qualifying marks for the dissertation/project report / monograph/ research paper in the M.Phil., and M.Tech courses shall be 50%. Students who obtain less than 50% or 'D' grade in the dissertation/ monograph/ research paper will be required to rewrite it within such extra time as may be allowed by the University based on the recommendation of the Supervisor(s) and the Department/Centre/School concerned.

8. Students who are permitted to appear in supplementary examinations in course/s in accordance with clauses 5(a) above will be required to apply to write the examination concerned in the prescribed form and pay the prescribed examination fee by the date prescribed for the purpose by the University.

9. (a) A student in order to be eligible for the award of M.A., M.Sc., MCA, MBA, MPA, MFA Adv. PG/PG Diploma and Integrated PG Courses must obtain a minimum of 'D' grade in each course. The results of successful candidates will be classified as indicated below on the basis of the CGPA:

   CGPA of 8.0 and above and upto 10.0 I Division with Distinction
   CGPA of 6.5and above and < 8.0 I Division
   CGPA of 5.5 and above and < 6.5 II Division
   CGPA of 6.0 II Division with 55%
   CGPA of 5.0 and above and < 5.5 III Division

   (b) To satisfactorily complete the programme and qualify for the degree, a student must obtain a minimum CGPA of 5. There should not be any 'F' grades on records of any student for making himself/herself eligible for award of the degree.

   The division obtained by a student will be entered in his/her provisional cum consolidated grade sheet and in the degree/diploma certificate.

10. A student in order to be eligible for the award of the M.Phil and M.Tech degree must obtain a minimum of 'D' grade in each of the courses She/he takes as well as in the dissertation / project report/ monograph. The results of the successful candidates will be classified as below:

CGPA of 8.0 and above and upto 10.0	I Division with Distinction
CGPA of 6.5and above and < 8.0	I Division
CGPA of 5.5 and above and < 6.50	II Division

There is no III Division in these programmes

To satisfactorily complete the programme and qualify for the M.Phil. / M.Tech. degree, a student must obtain a minimum CGPA of 5.5. There should not be any 'F' grades on the records of any student for making himself/herself eligible for award of the degree.

The division obtained by a student will be entered in his/her provisional cum consolidated marks sheet and the degree certificate.

11. No student shall be permitted to take a supplementary examination for the second time of the same course except in the case of one repeating the entire course.

12. (a) No student of Post graduate, Adv. PG/PG Diploma courses shall be allowed to continue his/her enrolment for more than two semesters beyond the prescribed duration of the course. However, 5-Year Integrated PG students shall be allowed to continue their enrolment upto four semesters beyond the prescribed duration of the course. While counting the maximum permissible number of semesters before which a student has to complete his programme the "idle semester/s" (i.e. the semester he/she has to forego for want of instructional facility) will not be counted and it should be limited to one semester in the case of PG and Advanced PG Diploma courses and two semesters in the case of 5-year Integrated courses. However, such students have to pay the tuition and other fees for the idle semester/s also. A student may be permitted to discontinue his/her studies for reasons certified as valid by the Head and/or Dean of the School concerned for a period not exceeding two semesters.

(b) No student of the M.Phil. and M.Tech. shall be allowed to continue his/her enrolment for more than two semesters beyond the prescribed duration of the course. Further a student of MCA, M.Phil. and M.Tech. or any other programme having dissertation will be permitted to work on the dissertation though there are backlogs in the course work subject to the condition that the backlogs do not come in the way of their promotion to the subsequent semesters. However, he/she is allowed to submit the dissertation only on completion of the course work.

13. Students who are not found eligible to take semester examinations and also those who are not promoted to the next semester of the course may be considered for **readmission** to the concerned semester of the immediately following academic year. Such students should seek **readmission** before the commencement of the classes for the concerned semester or within a week of the commencement of the concerned semester if they are appearing in the supplementary examinations. Such students are given an option either to undergo instruction for all the courses of the semester concerned or to undergo instruction in only such courses in which they have failed on the condition that the option once exercised will be binding on the student concerned.

14. The answer scripts of the semester examinations shall not be returned to the candidates but may be shown by the instructor at the specific request of the student concerned. The result of the continuous assessment of the students will, however, be communicated to students immediately after the assessment.

15. **No request for re-valuation shall be entertained**. However, every School shall constitute a **Grievance Committee** consisting of 3 or 4 teachers to examine the complaints received from the students of the School regarding their assessment. Such requests from the students should reach the Dean of the School through the Head of the Department/Centre within 15 days of the announcement of the results.

Note: If a student is not satisfied with the evaluation by the School level Grievance Committees, the Dean of the School on a request from the student may refer the matter to the Controller of Examinations for getting the paper evaluated by an external examiner, whose evaluation will be final. The fees for external evaluation in all such cases shall be Rs. 50/- per paper which shall be paid by the student concerned.

16. (a) Students absenting themselves after payment of fees from a regular semester examination are permitted to appear in the supplementary examination . The application for the supplementary examination in the prescribed form along with the prescribed fee should reach the office of the Controller of Examinations through the Department/Centre/School concerned by the date prescribed.

(b) Students may opt to audit a course within the Department or outside, provided he/she satisfies the prerequisites. 75% of attendance is required for an audit course for including the same in the additional grade sheet.
(c) Option once exercised for audit/extra courses shall be final.

Improvement examination

i) Students securing 'D' grade in the course of a semester may be allowed to improve their marks in one course in a semester. Appearance at such an examination in the course will be allowed only once. No further chance will be given under any circumstances.
ii) The improvement examinations will be conducted along with the supplementary examinations within a week of the commencement of the teaching of the next semester or as per the schedule prescribed.
iii) For the purpose of determining the Division, the better of the two performances in the examinations will be taken into consideration.
iv) The facility for improvement shall be open to all those who want to improve their grade irrespective of the CGPA obtained by them in the examination concerned. However, one should clear all courses of a particular semester in which he/she intends to take an improvement examination.
v) The grade sheet of a student will indicate full information of the examinations taken by him/her. Both the Grades obtained in the 1st and 2nd attempts will be shown in the grade sheets.
vi) The Application for improvement examination in the prescribed form along with the prescribed Examination Fee should reach the office of the Controller of Examinations within a week of the commencement of the teaching of the next semester through the School/Department/Centre by the prescribed date.
vii) One can improve a maximum of four courses of their respective programmes as detailed below:
one course at the end of the first semester, two courses at the end of the second semester, three courses (to be taken from 1st & 3rd semesters) at the end of the third semester and four courses at the end of the fourth semester.

Students who have completed the course without availing the improvement facility in accordance with the schedule prescribed by the University are allowed to avail the unavailed chances within a maximum period of six months after completion of the course. Such exams are to be taken when the regular or supplementary/improvement exams are held.

Special Supplementary Examinations: The PG/5-year Integrated PG students who after completion of the prescribed duration of the course are left with backlogs are eligible to appear for special supplementary exams subject to a maximum of two courses where number of courses in a semester are four and a maximum of three courses where the number of courses in a semester are more than four. Appearance in such exams shall be allowed only once.

Evaluation of M.Phil. dissertation

i) Students should give an open seminar on the M.Phil dissertation. Schools/Departments/Centres should hold it before/after submission of the dissertation.

ii) A Board comprising 3-4 members shall assess the performance of the M.Phil. candidates at the seminar for 25% of the marks prescribed for the dissertation. The remaining 75% marks for the dissertation shall be awarded on the basis of examiners' reports in accordance with the existing procedure. There is no minimum pass mark for the seminar.

Evaluation of M.Tech. CS/AI/IT dissertation & MCA Project work

1. The dissertation of M. Tech. and M.C.A. project will be evaluated in two phases viz., mid-term and final. Mid-term is for 40% and the final is for 60%.
2. The mid term and final evaluation will be done by a Board of examiners and the students have to present the work done by them.
3 (i) The provisional certificate-cum-consolidated grade transcript shall contain the CGPA and the division also. This document shall also contain classification of the results under letter grade system .

(ii) An additional grade sheet will be given to the students for the courses audited by them without attributing the credits, and also for the courses taken by them having credits which are not counted for the award of the degree and the credits scored by them for the extra curricular activities like NSS, literacy programme etc. The audited courses will be included in the additional grade sheet, based on the certification given by the teacher concerned and recommended by the Head of the Department and Dean of the School concerned.

iii) In the degree certificate, the division will also be mentioned.

v) In addition to the above provisions, the existing evaluation regulations in the University shall be applicable in the other matters, wherever required.

Bridge courses for SC/ST Ph.D. scholars

Students from the SC/ST category who are admitted to **Ph.D.** programmes and identified with some academic deficiencies have to study Brdige courses for a maximum period of 2 semesters to enable them to pass the course work and this period will not be counted against the maximum period (5+1 year) allowed for submission of the thesis.

Course work for Ph.D. scholars

Every student admitted to a Ph.D. programme shall satisfactorily complete the course work prescribed by the School/Department/Centre. The course work shall be for 12 - 14 credits which may be distributed among different components as decided by the respective Department/Centre and approved by the School Board. The Ph.D. students should pass the course work by securing 50% of marks in each subject within a maximum period of 2 semesters. However, in exceptional cases, another two semesters may be granted to complete the course work which may be decided based on the merit of each case. No student shall be permitted to work on the research project without completion of the course work. The provisional admission of the candidates who fail to complete the course work in the above stipulated period stands cancelled automatically. This shall also apply for the Ph.D. students registered for part time, external category and at the Associate Institutions. The result shall be declared as pass or fail.

Note : Those with an M.Phil. Degree though exempted from the course work have to do the course work if it is recommended by the Supervisor/Doctoral Committee and approved by the School Board. In the case of M.Tech. students admitted to Ph.D., they will be required to do a course in Research Methodology if they have not done at their M.Tech. and any other course work if it is prescribed by the Supervisor/Doctoral Committee to be approved by the School Board which need not be of 12-14 credits.

Medals for excellence in studies

With a view to encouraging good performance in studies, the University has instituted several donor medals. These include the following:

Donor Medals

1. Sarojini Naidu Memorial Trust - M.A. English
2. Roopchand Chajed (Jain) Medal - M.A.Hindi
3.Dr. Prakash Moonis Memorial Medal - M.A.Urdu

4.M/s. Jindal Jubilee Gold Medal - M.A. Economics

5.Andhra Bank Medal - M.A. History

6.Canara Bank Medal - M.A. Communication

7.Nataraja Ramakrishna Sharada Devi Medal - M.P.A.Dance

8. Sri S.L. Parasher Medal -M.F.A. Painting

9. M./s Jindal Jubilee Gold Medal - M.Sc Maths

10. M/s Narosa Publishing House Medal - M.Sc Maths (Applied)

11. A.P. Mahesh Bank Medal - M.C.A.

12.Bhagwat Saran Agarwal Memorial Medal - M.Sc Physics

13.Vasavi Academy of Education Medal-M.Sc Electronics

14.Vasavi Academy of Education Medal -M.B.A.

15. Prof. V.V. Sarma Memorial Medal- M.Sc Chemistry

16. Prof. A.N. Radhakrishnan Memorial Medal - M.Sc Biochemistry

17. K.L.N. Reddy Medal - M.Sc Plant Sciences

18.Kiran Kumar Medal -M.Sc Animal Biotech.

19.Burhani Trust A.P.Medal -M.Sc. Biotechnology

20. SBH Medal - M.Tech CS

21. Alekhya Technology Medal - M.Tech AI

22.Mannapalli Subbaramaiah Medal --Overall for M.Tech CS/AI/IT

23. Smt. N.V. Ranganayakamma Medal- M.Phil Physics

24. Prof. G.C. Jain Medal - M.Phil Urdu

25. Roopchand Chajed (Jain) Medal - M.Phil Hindi

26. President of India Medal - for overall performance (Bi-annually)

27.Pingali Mohan Reddy Medal -overall performance in PG in Life Sciences

28. Alumni Medal (for a topper in Social Anthropology) - M.A Anthropology

29. Akhtar Hassan Memorial Medal - M.Phil Urdu

30. IDRBT Medal - M.Tech IT

31. Dr. (Mrs) Sheela Raj Memorial Medal - The best Ph.D. or M.Phil thesis to be adjudged every year in History

32. Tadinada Sri Mahalashmi Medal - M.Tech. Mineral Exploration

33. Dr. Salam Khan Bio Asia Medal- M.Sc Biotechnology

34. Dr. Naushaba Hasnain and Prof. Syed Mohammad Hasnaian Medal - For performance in PG courses of School of Humanities with a preference to M.A. Urdu, if the overall marks are 1% less than the topper in other subjects

35. Kottapalli Narasayya Medal - for a topper who secures highest marks in core subjects of M.Sc. Plant Biology and Biotechnology

36.Prof. P. Ramanarasimham Medal -for a topper in M.A. Telugu who secures highest marks in the following Courses put together :

i) Introduction to General Linguistics

ii) Evolution of Telugu Language

iii) Structure of Modern Telugu

iv) Comparative Dravidian

37 Prof. Radhanath Medal - I.M.Sc. Health Psychology

Donor Medals for women toppers

38. Smt. Ravuri Kantamma Bhardwaja Medal - M.A.Telugu

39. State Bank of India Medal - M.A. Economics

40. A.P. History Congress Medal - M.A. History

41. Prof. G. Ram Reddy Memorial Medal - M.A.Political Science (Human Rights)

42. Prof. M.Shakuntala Memorial Medal - M.Sc Physics

The toppers in the remaining Master's degree courses are awarded the University Medals.

University Medals

1. M.A. Philosophy
2. M.A. Functional Hindi
3. M.A. Telugu
4, M.A. Applied Linguistics
5. M.A. Political Science
6. M.A. Sociology
7. M.A. Anthropology
8. M.P.A. Theatre Arts
9. M.Sc Statistics
10. M.Sc Moleculor Microbiology
11. M.B. A. Health Care and Hospital Management

SC/ST Medals

The University has instituted medals for securing the first rank with first class among the SC/ST students in various

examinations at Master's degree level in the year 1991 – the birth centenary of Bharat Ratna Dr. B.R. Ambedkar.

The President of India Medal

The President of India Medal will be awarded bi-annually for a PG student for overall performance to be adjudged as the best for general proficiency including character, conduct, excellence in academic, and other extra and co-curricular activities viz., i) sports (ii) cultural (iii) participation in literacy drive and non-formal education (iv) leadership (v) participation in debates, seminars and similar activities (vi) participation in NSS, blood donation camps, etc. For this, a weightage of 70% shall be given for academic performance after normalization and 30% for other activities by giving 5% weightage each of the above stated activities. The students should provide the information to the HoDs/Deans for this purpose with documentary evidence from time to time or before they leave the University on completion of the course.

University Medal for Physically Challenged Students

The University has instituted a medal for the meritorious student from amongst the physically challenged category from P.G. Courses. This will be awarded annually at the Convocation. The selection procedure for this award will be similar to that of the President of India Medal.

Note: For the award of the above medals, prizes, and rank, etc., the topper in the subject concerned should secure first division in the degree and pass all the examinations within the prescribed duration in the first attempt. The marks obtained in supplementary/ improvement examination shall not be taken into account for the purpose. In respect of tie, actual marks obtained shall be taken into account for identifying the topper.

Academic Calendar 2013-2014

Monsoon Semester	**(July – December 2013)**
Important dates	
Reopening after summer vacation	01-07-2013
Entrance Examinations	21.02.2013 to 26.02.2013
Last date for payment of fees and semester registration	
I semester (fresh students)	At the time of admission
Ongoing students – without fine	15.07.2013 to 23.07.2013
With a fine of Rs. 500/-	24.07.2013 to 04.08.2013
Suppl. / Imp. Examinations	05.07.2013 to 12.07.2013
Teaching schedule	15.07.2013 to 12.11.2013
Semester examinations	13.11.2013 to 26.11.2013
Winter Vacation	
For students	27.11.2013 to 01.01.2014
For faculty	02.12.2013 to 01.01.2014
Suppl./Imp. Examinations	06.01.2014 to 11.01.2014
Winter Semester	**(January – June 2014)**
Important dates	
Last date for payment of fees and semester registration	02.01.2014 to 09.01.2014
With a fine of Rs. 500/-	10.01.2014 to 21.01.2014
Teaching Schedule (for all students)	02.01.2014 to 22.04.2014
Semesters examinations	23.04.2014 to 03.05.2014
Summer Vacation	
For students	04.05.2014 to 14.07.2014
For faculty	17.05.2014 to 30.06.2014
Reopening after summer vacation	01.07.2014

UNIVERSITY OF HYDERABAD

(A Central University established by an Act of Parliament)

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