

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 financed 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 spreads 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 scenic 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 Performing Arts, Fine Arts and Communication
8. School of Management Studies
9. School of Medical Sciences
10. School of Engineering Sciences & Technology

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

Departments / Centres of Study

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

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

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

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

The **School of Humanities** has the following Departments, Centres, and a 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 & Translation Studies
7. Centre for Comparative Literature
8. Department of Sanskrit Studies
9. English Language Teaching Cell
10. Centre for the Study of Foreign Languages

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

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

The **S.N. School of Performing Arts, Fine 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

Standalone Centres offering Academic Programmes

1. Special Centre for Integrated Studies (SCIS)
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 Cognitive Sciences
6. Centre for Women's Studies

All the Schools of the University and centers 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 36% of the students are Ph.D. scholars and more than 31% of the students are women. Till January 2008, over 15,692 students of the University have been awarded various degrees through formal education, which consists of 1,267 Ph.Ds., 2,928 M.Phils. 1,053 M.Techs. and 10,444 postgraduate Degrees and Diplomas. The faculty of the University include 129 Professors, 85 Readers and 108 Lecturers.

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 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.

COURSES, CRITERIA FOR ADMISSION AND ENTRANCE EXAMINATIONS

COURSES OF STUDY

Admissions during 2008-09 are open for the following courses: (10 Semesters)

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

I.M.Sc. Courses (10 semesters)

Mathematical Sciences	Optometry & Vision Science
Physics	Chemistry
Chemical Sciences	Nursing Sciences
Systems Biology	Health Psychology

I.M.A. Courses in Humanities (10 Semesters)

Languages : Hindi, Telugu & Urdu
Language Science

I.M.A. in Social Sciences (10 Semesters)

Postgraduate Courses

M.Sc. courses (4 semesters)

Mathematics	Biochemistry
Applied Mathematics	Plant Biology & Biotechnology
Statistics – O R	Molecular Microbiology
Physics	Animal Biotechnology
Chemistry	Biotechnology*

* For admission to M.Sc. Biotechnology, a separate combined entrance examination is being conducted by the Jawaharlal Nehru University (JNU), New Delhi on 18.5.2008 (Sunday), as notified in the newspapers in February 2008.

M.C.A (6 semesters)

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

M.B.A. (4 semesters): *The selection process for admissions to this course for the academic year 2008-09 has been completed based on the percentile scores obtained in CAT 2007 followed by an Interview / Group Discussion.*

M.A. courses (4 semesters)

English	Economics
Philosophy	History
Hindi	Political Science
Functional Hindi (Translation)	Sociology
Telugu	Anthropology
Urdu	
Applied Linguistics	

M.A. Communication (4 semesters)

(Radio & Video production, Print and New Media, Communication Studies, and Advertising & Public Relations.)

M.P.A. Dance (4 semesters)

(Kuchpudi, Bharatanatyam, Contemporary and Folk)

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

M.F.A. (4 semesters)

(Painting, Print Making and Sculpture)

Adv. P.G.Diploma Courses (2 semesters)

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).

Folk Culture studies

PG Dip. in Counseling Psychology (2 semesters)

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

I.C. Technology

Medical Biotechnology (The course is offered in collaboration with Nizam’s Institute of Medical Sciences (NIMS). Hyderabad)

Bioinformatics (The course is offered in collaboration with the Centre for DNA Fingerprinting Diagnostics (CDFD). Hyderabad)

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

M.Phil. Courses (2 semesters)

English	Economics
Philosophy	History
Hindi	Political Science
Telugu	Sociology
Urdu	Anthropology
Applied Linguistics	Regional Studies
Translation Studies	Social Exclusion &
Comparative Literature	Inclusive Policy
Shabada Bodha Systems &	Gender Studies
Language Technologies	Cognitive Sciences

Ph.D. Programmes (2 to 5 years)

Mathematics	Animal Sciences
Applied Mathematics	Biotechnology
Statistics-OR	English
Computer Science	Philosophy
Physics	Hindi
Electronics Science	Telugu
Chemistry	Urdu
Biochemistry	Applied Linguistics
Plant Sciences	Translation Studies

Comparative Literature	Communication
Sanskrit Studies	Dance
Economics	Theatre Arts
History	Management Studies
Political Science	Infection Biology
Sociology	Cancer Biology
Anthropology	Community Nutrition
Regional Studies	Earth & Space Sciences
Folk Culture Studies	ACRHEM
Social Exclusion &	Psychology
Inclusive Policy	Congnitive Science

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

Materials Engineering

Note : Candidates seeking admission to Ph.D. programmes 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 under the rules laid down by the Academic Council.

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.
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 whose result of the qualifying degree/ other examination is not declared may also apply for admission.

Candidates who have completed all the formalities viz., written the theory examinations, completed practical examinations, submitted Project reports, completed viva-voce exams etc. and waiting for the results of the qualifying degree/other examination and those who are due to appear in the qualifying degree/other examination in all aspects as stated above and expecting their results to be declared and getting the certificates before **31 July, 2008** 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 examination and other earlier examinations positively at the time of completion of the admission. In exceptional cases, the University may give extension of time upto **31.8.2008** to submit the certificates of the qualifying examination. Such students will be given conditional admission card up to **31.8.2008** only. *However, this facility will not be extended to those who are taking regular or supplementary*

or improvement examinations of the qualifying degree after 31.07.2008 and awaiting for the results. In the event of the concerned students failing to (i) submit their result and certificates by **31.8.2008**, and (ii) passing the qualifying degree examination with the prescribed percentage of marks / division/ class, they would not be allowed to attend the 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 31.8.08.**

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.Tech./ Ph.D. are full time regular courses.

For Ph.D. programmes, the candidates are encouraged to join as regular students. However, for those who are not in a position to do research on full time basis, a limited provision exists for part time. Facility is also available for external registration to Ph.D. on regular basis at the recognized centers of the University. The details are given in the subsequent paragraphs.

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.

7. 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 depending upon the actual needs of students.

Note: The 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; relaxation of marks in the minimum eligibility condition will be provided to the SC/ST candidates to fill all the seats meant for them.

For admission to M.Phil., M.Tech., and Ph.D. relaxation of 5% marks in the minimum eligibility condition (subject to a minimum of a second class) will be provided to the SC/ST candidates. **There is no cut off mark in the entrance examination for these categories for admission to any of the courses / programmes (P.G., Adv. P.G./P.G. Diploma, M.Phil., M.Tech. & Ph.D).**

8. Reservation of seats for the physically challenged candidates:

3% of seats in each course are reserved 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. The minimum eligibility requirements prescribed may be relaxed in their cases as in the cases of SC / ST candidates. 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 hours paper and 10 minutes for 1 hour paper and are also allowed to use a personal typewriter during the examination. The University will provide scribes for such students. **They will not be allowed to bring their own scribes.**

If eligible candidates are not available in this category, the seats will be converted to general category.

9. Weightage for distinction in sports/cultural activities:

With a view to encouraging admission of candidates with an excellent record in Sports and Cultural activities, the University provides a weightage of up to 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.**

10. 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 two nominated seats in each School.

The nominations of the candidates belonging to the above Union Territories / States should reach the University through the respective UT / State Government by **31st May, 2008. The candidates should fulfill the minimum eligibility requirements prescribed.** Reservations are made for students 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 for the year.

Note : Applications received directly from the candidates without routing them through the respective Directorate of the Higher Education of the UT/NE state and the nominations received after 31-5-08 will not be considered.

11. 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 will 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 **30th April, 2008 for July 2008 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, mark 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 recognised 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 getting the research topic approved by the Ministry of Human Resource Development (MHRD), Govt. of India and obtaining a research visa. There is a different fee structure for foreign nationals, as indicated at page 17 of this brochure.** Accommodation in the University hostels can be made available, if required.

Non-Resident Indians(NRIs): NRIs will also be considered for admission in different courses as per the rules in vogue. The NRIs may apply directly to the University for admission in the prescribed form latest by **31st May 2008.** They may be considered for admission, if they are found suitable

for admission by the Admission Committee of the concerned School / Department / Centre as per the rules. Candidates who take admission under this category shall pay the tuition and other fees as payable by foreign nationals.

ENTRANCE EXAMINATIONS

1. The Entrance Examinations for various P.G. Degree Courses, other than those offered by the Sarojini Naidu School and M.Sc Mathematics, Statics-OR, Physics and Chemistry 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 written and practical test/interview. The weightage for written test and practical test/interview will be in the ratio of 60:40 for M.A. Communication and 50:50 for other courses in the S.N. School. Only such candidates who are found successful in the written test will be called for the practical test/interview at Hyderabad. *Schedule for the written test, practical test/ interview for all the courses is given in the Table at pages 18 to 26 of this chapter.*

3. The entrance examination for **5-year integrated M.A., M.Sc., M.Sc. Mathematics, Statics-OR, Physics and Chemistry, M.Phil., M.Tech. Computational Techniques, IC Technology, Medical Biotechnology, Bioinformatics, Integrated M.Tech./Ph.D. Materials Engineering and Ph.D.** 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.

For **M.Tech Computer Science, Artificial Intelligence, and Information Technology**, the written test will carry 50 marks and the interview 25 marks (after qualifying in the former). An M.Tech. Applicant for these courses gets a maximum weightage upto 25 marks based on

the GATE score obtained following the formula: (GATE score - 75).

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.

5-year Integrated M.Sc (Sciences, Health Psychology), 5-year Integrated M.A. (Humanities), 5-year Integrated M.A. (Social Sciences), M.Sc Mathematics/Applied Mathematics, M.Sc Statistics-OR, M.C.A., M.Sc. Physics, M.Sc. Chemistry, M.Sc. Biochemistry, M.Sc. Plant Biology & Biotechnology, M.Sc. Molecular Microbiology, M.Sc. Animal Biotechnology, M.A. Telugu, M.A. Economics, M.Phil. Telugu, M.Phil Economics, M.Tech. CS/AI/IT, M.Tech Computational Techniques, M.Tech IC Technology, M.Tech Medical Biotechnology, M.Tech. Bioinformatics, Integrated M.Tech./Ph.D. Materials Engineering, Ph.D. Physics, Ph.D. Electronics Science, Ph.D. ACRHEM, Ph.D. Biochemistry, Ph.D. Biotechnology, Ph.D. Plant Sciences, Ph.D. Animal Sciences, Ph.D Economics, and PG Diploma in Counseling Psychology.

5. The written tests for all the courses will be held from **1st to 7th June 2008** at 19 different Centres in the country, which are given at page 15 of 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 her/his choice. *The University has made the best possible efforts to avoid overlap in the schedule of examinations of related subjects. 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 the tie cases.*

All the Schools/Departments/Centres shall 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, one after the other, to resolve the ties, where candidates secure the same marks in the written test :

- (a) **First criterion:** Marks obtained in Part - A of the question paper.
- (b) **Second criterion:** Division and 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:** Division and marks obtained in the degree examination immediately preceding the qualifying degree examination.

- (d) **Fourth criterion:** Division and 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(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, 5-year Integrated M.A., M.Sc, Integrated M.Tech./Ph.D. Materials Engineering, M.Sc Mathematics, Statistics-OR, Physics, M.Sc Chemistry and the courses offered by the S.N. School are tentatively scheduled to be held between 4th July to 11th July 2008, in the respective Schools/ Departments/ Centres. However, exact dates of the interview/practical test will be communicated to the short listed candidates.

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

11. Schedule for notification of list of selected candidates, completion of admission etc.

Particulars of the scheduled event	Adv. PG Dip. / PG Degree Courses in Sciences(except M.Sc in Maths, Statistics-OR, Physics & Chemistry), Humanities, and Social Sciences	M.Phil, M.Tech, Ph.D, M.Tech. / Ph.D, P.G. courses of S.N. School, M.Sc in Maths, Statistics-OR, Physics & Chemistry, 5-year Integrated M.A./ M.Sc courses and P.G. Dip. in Counseling Psychology.
Notification of short-listed candidates for interviews /practical tests	_____	23.6.2008
Notification of list of selected candidates (Main & waiting lists)	26.6.2008	16.7.2008
Last date for completion of admission by the Main-list candidates	12.7.2008	29.7.2008
Date for completion of admission by the wait-listed candidates	15.7.2008	31.7.2008
Last date for all admissions	16.8.2008	

Note: (i) The Entrance results will be made available on the internet : <http://www.uohyd.ernet.in>.; http://www.indiaresults.com/Andhra_Pradesh/UOH/Default.asp?inst=UOH and also the intimation to the successful candidates will be sent by ordinary post to their mailing addresses. The University will not be responsible for any postal delay.

(ii) No request for extension of time for interview/practical test or for completion of admission will be entertained on account of postal delay or any other reasons 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. The notifications are also available on the University’s web site: <http://www.uohyd.ernet.in>.

12. Commencement of classes

- a) For all PG courses in Sciences (except M.Sc Maths, Statistics-OR, Physics and Chemistry), Humanities, Social Sciences and MBA - **16.7.2008**
- b) For M.Phil./M.Tech. courses, Integrated M.Tech./ Ph.D., PG Courses offered by the S.N. School, M.Sc in Mathematics, Statistics-OR, Physics, Chemistry, and 5-year Integrated M.A. & M.Sc. courses - **1.8.2008**

Specific information for admission to M.Phil., M.Tech., M.Tech./Ph.D and Ph.D programmes.

1) The following cut-off point 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 and Ph.D programmes, in the case of General category. There is no cut off for the SC/ST/PH categories.

Course	Cut off marks (for Open Category only)
M.Phil. or M.Tech.	50%
Ph.D.	55%
Integrated M.Tech./Ph.D and Ph.D programmes	55%

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) 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.

Note: - (i) *Candidates qualified in UGC-CSIR National level test for Lectureship alone and those who have qualified in GATE, 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) *The GATE qualified candidates may be given some preference/weightage in the interview for admission to the concerned subject of study, as may be decided by the concerned School/Department/Centre.*

3) Weightage for the M.Phil./M.Tech. qualification:

After completion of the first round of Ph.D. admissions, the vacant seats, if any, will be filled from among the non-selected candidates by applying the following criteria in the second round :

- The marks for the written test in their case will be scaled down to 65 as against the prescribed marks of 75
- Such candidates will be given a weightage of 10 marks for M.Phil./M.Tech. qualification.
- Such candidates will be selected for admission against the vacant seats on the basis of their marks in the written test (out of 65); weightage of 10 marks for M.Phil./M.Tech qualification and marks in the interview (out of 25). Under no circumstances, candidates in the second round will get preference over the candidates selected in the first round.

4) 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.

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

procedure is the same as in the case of regular admissions to Ph.D. Candidates will be under joint supervision viz., one from the University and the other from the recognised institution.

In the case of External Registration to Ph.D in Computer Science, the candidates who are working in the following Institutes in the twin cities are only

allowed to register under this category. Candidate who registers 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

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 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
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 (ANURAG)	Computer Science
12	Dr. Reddy's Research Foundation	Chemistry and Life Sciences
13	International Crops Research Institute for Semi Arid Tropics (ICRISAT)	Life Sciences
14	Research Centre Imarat (RCI)	Computer Science
15	Centre for DNA Fingerprinting and Diagnostics (CDFD)	Life Sciences
16	National Institute of Rural Development (NIRD)	Economics, Political Science, Sociology, Anthropology, Regional Studies
17	Institute for Development and Research in Banking Technology (IDRBT)	Computer Science, Information Technology, Management Studies
18	Indian Institute of Chemical Technology	Chemistry
19	L.V. Prasad Eye Research Institute	Biochemistry/Animal Science, 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

Note : In order to boost the partnership so as to benefit mutually, the University has decided to grant Associate Institution status to Institutions listed above. These institutions can approach the University for this recognition which will entitle them to admit Ph.D. students based on their infrastructure and logistics. The University will participate in the selection process by having its nominee present in the Academic Committee and the Admissions Committee set up by these institutions.

6) Ph.D. admissions for October 2008, January 2009, and April 2009 sessions

After completion of the regular admissions in July, 2008, vacant seats if any, in the Ph.D. programmes may be filled from among the JRF qualified candidates. They may join with the interested faculty member of the University for the sake of claiming their fellowship. However, they may be considered for admission as per 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 and also considering the weightage for their JRF qualification as per the following schedule :

i) First week of October 2008

ii) First week of January 2009

iii) First week of April 2009

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.ernet.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 academic 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 stands 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 Ph.D. A schedule for semester-wise registration is at the inside page of the back cover page of the prospectus-cum-application form. However, a schedule for semester wise registration will be notified by the Academic Section from time to time. Students of all the courses (P.G./ Integrated Master's Degree/Adv. PG/PG Dip./M.Phil./M.Tech./Ph.D.), both fresh and on-going, are required to clear the dues of the earlier semester/s in all respects before registering for the following semester of the course.

Note: In the case of post-matric scholarship holders belonging to the SC/ST categories from the State of Andhra Pradesh, semester-wise registration for 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 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 in all the courses w.e.f. 2004-05

The credit system was extended to all the PG / Adv.PG / PG Diploma, all the M.Phil and M.Tech courses from the academic year 2004-05. The necessary guidelines for evaluation of students under this system are available at the end of this brochure.

General

1) Before filling the Application Form and the Basic Data Form, the 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 qualifying degree and earlier examinations shall be used in determining relative positions in the merit list for those candidates who secure the same marks in the written test.

2) The last date for receiving the completed applications for admissions for the July session is **May 3, 2008 (Saturday)**. 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.

Issue of Hall Tickets for the Entrance Examinations:

a) The Hall Tickets will be dispatched by ordinary post 10 days before the commencement of the examination.

Note : It may be noted that issue of Hall Tickets on the spot at the University campus is withdrawn w.e.f. the year 2008-2009.

b) 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 form 2008-2009 carefully before submitting their application forms and also before appearing for the interview / practical test if they are shortlisted and called for interview / practical test, whether they fulfill all the eligible conditions prescribed for admissions to a course.

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

d) 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 CENTERS

SI No.	Name of the Centre	Code	Venue of the Centre
1	AHMEDABAD	AHM	Physical Research Laboratory (PRL), Near Gujarath University, Navrangpura, AHMEDABAD - 380 009
2	AIZAWL	AIZ	Pachhunga University College, College Veng, Aizawl, Mizoram - 796 000
3	BANGALORE	BAN	Institute of Advanced Studies in Education, R.V. Teachers College, Jayanagar, BANGALORE - 560 011
4	BHOPAL	BPL	University Institute of Technology, Rajiv Gandhi Proudयोगiki Viswavidyalaya, Airport Bypass Road, Gandhi Nagar, BHOPAL - 462 036
5	BHUBANESWAR	BNR	Directorate of Distance & Continuation Education, Utkal University, Vani Vihar, BHUBANESWAR - 751 004
6	CHENNAI	CNI	Chandrasekhar Hall, 1 st Floor Main Building, The Institute of Mathematical Sciences, CIT Campus, Taramani, CHENNAI- 600 113
7	COCHIN	CHN	Department of Physics, Cochin University of Science & Technology, KOCHI - 682 022
8	DELHI	DEL	Faculty of Engineering & Technology, Jamia Milla Islamia Campus, Maulana Mohammed Ali Jauhar Marg, NEW DELHI- 110 025
9	GUWAHATI	GHT	Arts Building, Gauhati University, GUWAHATI - 781 014
10	JAMMU	JAM	Govt. Gandhi Memorial Science College, Canal Raod, JAMMU.
11	KOLKATTA	KOL	Asutosh Siksha Prangan, University of Calcutta, 87/1, College Street, KOLKATA - 73.
12	LUCKNOW	LCK	Babasaheb Bhimrao Ambedkar University Campus, Vidya Vihar, Rae Bareli Road, LUCKNOW - 226 025
13	MADURAI	MDR	Department of History, Madurai Kamaraj University, Palkalai Nagar, MADURAI-625021
14	PATNA	PAT	Pariksha Bhawan, B.N. College, PATNA - 800 005
15	PUNE	PNE	Arts Faculty Building, Near Golay Hall Room No.4 & 5, University of Pune, Ganeshkhind, PUNE - 411007
16	TIRUPATI	TPT	Sri Govindaraja Swamy Arts College Building, Near Srinivasa Kalyana Mandapams, Tiruchanur Road, TIRUPATI - 517 501
17	VIJAYAWADA*	VIJ	Andhra Loyola College, Ring Road, VIJAYAWADA - 520 008
18	VISAKHAPATNAM	VSP	Department of Commerce and Management Studies, Andhra University, VISAKHAPATNAM - 530003
19	HYDERABAD*	HYD	University Campus, Gachi Bowli, HYDERABAD - 500 046 The Golden Threshold (GT), Nampally Station Road, HYDERABAD

* Based on the number of candidates, the venue at the centers may be increased.

Note: The University reserves the right to cancel any of these centers and allot another nearer centre to the applicants of the Centre cancelled.

Fees Payable by Students (Indian Nationals) admitted during 2008-09

Course	Admission fee	Tuition fee (Per Sem.)	Lab Fee (Per Sem)	Library fee (Per Sem.)	Exam fee (Per Sem.)	Sports Fee (Per Sem.)	Internet charges (per semester)	Students' Welfare/ Union fund Per annum	Medical Insurance Per annum	Students aid fund (Per Sem.)	Total Cols. (2-11)	Deposits (Refundable)	Grand Total Col. (12-13)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
IMA, M.A. Courses in Humanities and Social Sciences	200	320	--	165	130	100	145	250	300	35	1645	350	1995
M.Sc. Maths/Statistics/Physics/MPA Dance/Theatre Arts/MFA Painting/Print Making/Sculpture/Adv.P. G. Diploma in Folk Culture Studies	200	320	540	165	130	100	145	250	300	35	2185	530	2715
M.Sc. Biotechnology	200	2165	1055	165	130	100	145	250	300	35	4545	530	5075
M.Sc. Chemistry/ Biochemistry/ Plant Biology & Biotechnology / Animal Biotechnology*, I M.Sc (Sciences) / Health Psychology	200	320	540	165	130	100	145	250	300	35	2185	1055	3240
M.C.A.*	200	6535	1770	165	130	100	145	250	300	35	9630	530	10160
M.B.A.*	1770	13610	3540	165	130	100	145	250	300	35	20045	1760	21805
M.A. Communication*	200	320	1055	165	130	100	145	250	300	35	2700	530	3230
M.Tech (CS / AI / IT)*	200	6490	1770	165	175	100	230	250	300	35	9715	530	10245
M.Phil Courses in Humanities / Social Sciences / Gender Studies	200	495	--	165	175	100	230	250	300	35	1950	350	2300
M.Phil. Cognitive Sci. / M.Tech. Comp. Tech./ M.Tech IC Technology	200	495	520	165	175	100	230	250	300	35	2470	530	3000
M.Tech. Medical Biotechnology*	200	1220	1055	165	175	100	230	250	300	35	3730	1055	4785
M.Tech. Bioinformatics*	1330	1020	1055	165	175	100	145	250	300	35	4575	1055	5630
<u>Ph.D. (Full-time)</u> Humanities and Social Sciences	200	670	--	165	--	100	230	250	300	35	1950	350	2300
Maths/ Statistics/ Computer Science/ Physics/Electronics Science/ Dance/ Theatre Arts/ Management Studies/ Communication/ Folk Culture Studies / Cognitive Science	200	670	520	165	--	100	230	250	300	35	2470	530	3000
Chemistry/ Biochemistry/ Plant Sciences/ Animal Sciences / Biotech. / ACRHEM / Earth & Space Sciences	200	670	520	165	--	100	230	250	300	35	2470	1055	3525
<u>Ph.D. Part-time / External Registration</u> Humanities and Social Sciences	200	1190	--	165	--	100	230	250	300	35	2470	350	2820
Maths/ Statistics/ Computer Science/ Physics/ Electronics Science/ Dance/ Theatre Arts/ Management Studies/ Communication/ Folk Culture Studies / Cognitivie Science	200	1210	520	165	--	100	230	250	300	35	3010	530	3540

Course	Admission fee	Tuition fee (Per Sem.)	Lab Fee (Per Sem)	Library fee (Per Sem.)	Exam fee (Per Sem.)	Sports Fee (Per Sem.)	Internet charges (per semester)	Students' Welfare/ Union fund Per annum	Medical Insurance Per annum	Students aid fund (Per Sem.)	Total Cols. (2-11)	Deposits (Refundable)	Grand Total Col. (12-13)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Chemistry/ Biochemistry/ Plant Sciences/ Animal Sciences / Biotech. / ACRHEM / Earth & Space Sciences	200	1210	520	165	--	100	230	250	300	35	3010	1055	4065
Ph.D. Infection Biology/ Cancer Biology / Community Nutrition	330	3000	1000	165	--	100	230	250	300	35	5410	1000	6410
Int. M.Tech/Ph.D. Materials Engineering *	200	3500	1500	165	175	100	230	250	300	35	6455	1055	7510
5-year Int. M.Sc in Optometry & Vision Sciences, Nursing Sciences *	200	6000	1000	165	130	100	230	250	300	35	8410	1000	9410
M.B.A. Health Care and Hospital Management *	2000	19495	5000	165	175	100	230	250	300	35	27750	1760	29510

* An additional amount is to be paid for the following course towards development fee :

MCA, M.Tech (CS/AI/IT), and MBA students Rs. 12,000/- at the time of admission (one time payment).; M.Tech Medical Biotechnology and Bioinformatics students @ Rs. 11,000/- p.a. to be paid in the beginning of each year.; M.Sc Animal Biotechnology students Rs.8,000/- (Rs.4,000/- p.a. to be paid in the beginning of each year); M.A. Communication students Rs.8,000/- (Rs.4,000/- p.a. to be paid in the beginning of each year). Integrated M.Tech. / Ph.D. in Materials Engineering students @ Rs. 5,000/- per semester and Integrated M.Sc. Optometry & Vision Science and Nursing Sciences students @ Rs. 10,000/- per semester to be paid at the beginning of each semester. M.B.A., Health Care and Hospital Management Students Rs. 15,000/- at the time of admission. (One Time Payment)

Fees payable by the Foreign National / NRI students

Sl.	Course	Fees per semester (in US \$)
1	M.C.A, M.Tech.(CS / AI / IT) and M.A. Communication	825
2	M.B.A For the candidates from developed countries	4,125
	For the candidates from developing countries	1,815
3	PG Courses in Sciences, 5-Year Integrated Master's Degree courses in Sciences, Health Psychology, Optometry & Vision Sciences, Nursing Sciences, M.Tech. in CT, IC Technology, Medical Biotechnology, Bioinformatics, and M.Phil. Cognitive Science	825
4	PG Courses in other than Sciences and 5-year Integrated M.A. Courses in Humanities and Social Sciences	495
5	M.Phil Programmes in Humanities, Social Sciences and Gender Studies	660
6	M.Sc./Ph.D, M.Tech./ Ph.D, & Ph.D. Programmes in Sciences, Computer Science, Management Studies and Cognitive Science	825
7	Ph.D. Programmes in Humanities, Social Sciences, S.N. School, and Psychology	660
8	M.Phil/Ph.D. Programmes in all subjects for the candidates from SAARC countries	330

Note : 1. Foreign nationals/ NRIs are required to pay the above specified semester fees and the fees as shown against columns **8 to 10 and 13** of the above fees structure applicable in the case of Indian Students in Indian Rupees.

2. Candidates who are granted admission in M.B.A; M.C.A; and M.Tech (CS/AI/IT); M.Tech Medical Biotechnology; Bioinformatics; M.Sc. Animal Bio technology; and M.A. communication, Integrated M.Tech. / Ph.D. in Materials Engineering, Integrated M.Sc. in Optometry & Vision Sciences, Nursing Sciences and M.B.A. in Health Care & Hospital Management are also required to pay in Indian Rupees an amount equivalent to US \$ 750 as one time payment towards Development Fee at the time of admission.

Intake, Minimum qualifications for admission and schedule for written tests/interviews

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	36	First class Bachelor's degree with a minimum of 60% marks in the aggregate of optional subjects with Mathematics/ Statistics as one of the subjects; OR Second class with at least 55% of marks for those students who have done B.A./B.Sc. (Hons) course in Maths/ Statistics	03.06.2008 2.00 p.m.	04.07.2008 & 05.07.2008 10.00 a.m.
M.Sc.	Statistics-OR	24	Same as above	02.06.2008 2.00 p.m.	04.07.2008 & 05.07.2008 10.00 a.m.
M.Sc.	Physics	30	First class 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.	05.06.2008 2.00 p.m.	04.07.2008 & 05.07.2008 10.00 a.m.
M. Sc.	Chemistry	34	First class B.Sc. with a minimum of 60% marks in the aggregate of Science subjects with Chemistry as one of the subjects, preferably with combination of Physics and Mathematics.	01.06.2008 2.00 p.m.	04.07.2008 & 05.07.2008 10.00 a.m.
M.Sc.	Biochemistry	18	First class B. Sc. With a minimum of 60% marks in the aggregate of Science subjects with Chemistry or Biochemistry as one of the subjects.	02.06.2008 2.00 p.m.	
M.Sc.	Plant Biology & Biotechnology	15	First class 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.	06.06.2008 10.00 a.m.	
M.Sc.	Molecular Microbiology	10	First class 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.	02.06.2008 10.00 a.m.	
M.Sc.	Animal Biotechnology	15	First class 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.	03.06.2008 10.00 a.m.	
M.C.A.		45	First Class Bachelor's degree with at least 60% marks in aggregate, in any discipline with mathematics as a compulsory subject at the Higher Secondary (10+2) level.	01.06.2008 10.00 a.m.	
M.A.	English	36	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.	05.06.2008 10.00 a.m.	
M.A.	Philosophy	20	Second class Bachelor's degree in any subject/s with at least 50% marks in aggregate.	06.06.2008 10.00 a.m.	
M.A.	Hindi	30	Second class with at least 50% marks in the Bachelor's degree with at least 50% marks in Hindi as optional (Elective) subject; OR Second class with at least 50% marks in the Bachelor's degree with at least 55% marks in Hindi as compulsory Language subject (second language). <i>Note: Second class 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 possess second class certificate examinations with 50% marks (equivalent to B.A. in Hindi) approved by the Government of India.</i>	04.06.2008 10.00 a.m.	

- Note:**
1. For calculating the prescribed percentage for admission to M.Sc./MCA courses the marks obtained in the language papers of the qualifying degree will be excluded.
 2. For B.A. (Hons), B.Sc. (Hons) degrees, the marks in Hons/Core subjects will only be taken into account for calculating the prescribed percentage of marks.
 3. In all the cases where their qualifying examination is declared as passed in "compartmental or pass or instant etc.," will be treated as equivalent to 3rd-Division/class only irrespective of the percentage of marks they secured.

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of Written test	Date and time of interview
M.A.	Functional Hindi (Translation)	14	Second class with at least 50% marks in the Bachelor's degree with at least 50% marks in Hindi as optional (Elective) subject; OR Second class with at least 50% marks in the Bachelor's degree with at least 55% marks in Hindi as compulsory subject (second Language); OR Second class M.A. in Hindi language and literature; OR Second class M.A. in any of the following allied subjects: Linguistics/Comparative Literature (with Hindi as one of the subjects at the Bachelor's degree level). <i>Note: Second class 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 possess second class certificate examinations with 50% marks (equivalent to B.A. in Hindi) approved by the Government of India.</i>	06.06.2008 2.00 p.m.	
M.A.	Telugu	38	Second class with at least 50% marks in the Bachelor's degree with at least 50% marks in Telugu as optional subject; OR Second class with at least 50% marks in the Bachelor's degree with at least 55% marks in Telugu as the compulsory subject.	06.06.2008 2.00 p.m.	
M.A.	Urdu	25	Second class 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 Second class Bachelor's degree or equivalent with at least 55% marks in Urdu, Persian or Arabic as compulsory subject i.e. as second language.	06.06.2008 2.00 p.m.	
M.A.	Applied Linguistics	18	At least 50% marks in the Bachelor's degree with at least 50% marks in Linguistics / any language as an optional/honours subject; OR Second class with at least 55% marks in the Bachelor's degree in any other discipline.	04.06.2008 2.00 p.m.	
M. A.	Economics	50	Second class with at least 50% marks in the Bachelor's degree and at least 50% marks in Economics; OR First class Bachelor's degree with at least 60% marks in any of the allied subjects viz. Commerce, Statistics, Mathematics or any of the Social Sciences subjects.	04.06.2008 2.00 p.m.	
M.A.	History	40	Second class with at least 50% marks in the Bachelor's degree and at least 50% marks in History; OR Second class 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 First class Bachelor's degree in any subject(s) with at least 60% marks in aggregate.	04.06.2008 10.00 a.m.	
M.A.	Political Science	40	Second class Bachelor's degree with atleast 50% marks in Social Sciences or Humanities subjects OR 55% marks in any other subjects.	06.06.2008 10.00 a.m.	
M.A.	Sociology	40	Second class with at least 50% marks in the Bachelor's degree and at least 50% marks in the subject concerned OR Second class with at least 50% marks in the Bachelor's degree and at least 55% marks in aggregate in the allied subjects viz., all Social science subjects, Philosophy, Communication, Linguistics; OR First class Bachelor's degree in any subject (s) with 60% marks in aggregate.	06.06.2008 2.00 p.m.	
M.A.	Anthropology	25	Second class with at least 50% marks in the Bachelor's degree in Social Sciences / Humanities subjects OR Second class Bachelor's degree with at least 55% marks in any other subject.	03.06.2008 2.00 p.m.	
Adv. PG Diploma	Folk Culture Studies	15	Any Second Class Master's degree with a minimum of 55% aggregate Marks in Social Sciences, Humanities, Fine Arts, Performing Arts and Communication	07.06.2008 2.00 p.m.	
P.G. Diploma	Counseling Psychology	20	Second Class Master's degree with at least 50% marks in aggregate in Psychology, Social Work, sociology, Home Science, Nursing or MBBS.	03.06.2008 10.00 a.m.	04.07.2008 10.00 a.m.

- Note:
1. For calculating the prescribed percentage for admission to M.Sc./MCA courses the marks obtained in the language papers of the qualifying degree will be excluded.
 2. For B.A. (Hons), B.Sc. (Hons) degrees, the marks in Hons/Core subjects will only be taken into account for calculating the prescribed percentage of marks.
 3. In all the cases where their qualifying examination is declared as passed in "compartmental or pass or instant etc.," will be treated as equivalent to 3rd-Division/class only irrespective of the percentage of marks they secured.

**Intake, Minimum qualifications for admission and schedule for written tests/interviews
Postgraduate courses offered by the SN School**

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of Written test	Date and time of interview
M.P.A. Dance	Dance Kuchipudi	06	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.)	03.06.2008 10.00 a.m.	04.07.2008 10.00 a.m.
	Bharatanatyam	06	OR A candidate with 10+fulltime 4-year diploma / certificate from a nationally recognized institution + 1 year practical work in the same institution; OR A candidate with 10+2+fulltime 3-year diploma from a nationally recognized institution.		
	Contemporary	08	Bachelor's degree in any dance style OR Bachelor's degree in any subject with minimum training of three years in any dance or physical-theatre style, yoga, martial arts, performing art group/ institution or under recognized guru/teacher (formal certificate of training should accompany the application) OR a candidate having 10+fulltime 3-4 year diploma/certificate from nationally recognized institution+1 year professional work OR a candidate having 10+2 and 3-year full time diploma from a recognized institution in any performing arts practice		
	Folk	06	Bachelors Degree in any subject with practical exposure and training in any traditional dance form for at least 3 years (certificate of training should be produced) OR a traditional folk artiste having Bachelors Degree in any subject (a proof of the traditional origins need to be produced)		
M.P.A.	Theatre Arts	15	Bachelor's degree in any subject with an aptitude for theatre which will be tested at the time of viva.	02.06.2008 10.00 a.m.	05.07.2008 10.00 a.m.
M.F.A.	Painting Print making Sculpture	12 06 06	Bachelor's degree in Painting / Printmaking / Sculpture	06.06.2008 2.00 p.m.	04.07.2008 & 05.07.2008 10.00 a.m.
M. A.	Communication*	40	Second class Bachelor's degree with at least 55% marks in Communication / Journalism; OR Second class Bachelor's degree in any subject with at least 55% marks in aggregate.	02.06.2008 10.00 a.m.	04.07.2008 to 06.07.2008 10.00 a.m.
M.B.A	Health care & Hospital Mgt.	15+5#	First class in three or four year Bachelor's degree with a minimum of 60% marks or equivalent grade of any University recognised by AIU / AICTE. Preference will be given to those who have an academic background / experience relating to health care management / administration areas	07.06.2008 2.00 p.m.	10.07.2008 10.00 a.m.
MBA**		50	A three-year Bachelor's degree (or its equivalent) in any discipline recognized by the Association of Indian Universities/AICTE, obtained on or before June 2008.		

Sponsored Seats

* Radio & Video Production, Print & New Media; advertising & Public relations; and Communication Studies

** The formalities for admitting candidates into MBA for the academic year 2008-09 have been completed based on the percentile scores obtained in CAT 2007.

Note: 1. In all the cases where their qualifying examination is declared as passed in "compartmental or pass or instant etc.," will be treated as equivalent to 3rd-Division/class only irrespective of the percentage of marks they secured.

Intake, Minimum qualifications for admission and schedule for written tests/interviews 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	36+5*	First class with a minimum of 60% marks in the Bachelor's degree examination in Engineering/ Technology (B.E./B.Tech); OR First class with a minimum of 60% marks in the Master's degree examination in a subject related to Mathematics or Statistics or Information Systems or Information Technology or Physics or Electronics or Computer Science; OR First class with a minimum of 60% marks in Master's degree in Computer Applications (M.C.A.) <i>(Note: Grad IETE and AMIE are considered as equivalent to B.Tech for the purpose of admission to M.Tech).</i> and GATE qualification with a minimum of percentile cut off score for general candidates and in the case of SC/ST/PH candidates to be called for the written test is: GATE scores in percentile (>) <table style="margin-left: auto; margin-right: auto;"> <tr> <td>GE</td> <td>SC/PH</td> <td>ST</td> </tr> <tr> <td>90</td> <td>80</td> <td>65</td> </tr> </table>	GE	SC/PH	ST	90	80	65	03.06.2008 2.00 p.m	04.07.2008 to 06.07.2008 10.00 a.m.
	GE	SC/PH		ST							
	90	80		65							
Artificial Intelligence	25+5*										
Information Technology	25+5*										
M.Tech.	Computational Techniques	20	Second Class 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.	05.06.2008 2.00 p.m	06.07.2008 & 07.07.2008 10.00 a.m.						
M.Tech.	IC Technology	14	Second Class with at least 55% marks in the Master's degree in Electronics, or in Physics with Electronics Specialisation OR B.E./B.Tech., with a minimum of 60%, with Electronics as one of the subjects.	04.06.2008 2.00 p.m.	06.07.2008 & 07.07.2008 10.00 a.m.						
M.Tech.	Medical Biotechnology	15+5*	First Class B.E./B.Tech in Biotechnology/Biomedical Engineering; OR First class B.Pharm; OR First Class M.Sc in Biochemistry/ Biotechnology /Microbiology/ Chemistry; OR MBBS with a minimum of at least 55% marks in aggregate. <i>Note: Candidates having the above mentioned qualifications and working in Research & Development centers of Industry or Institutions (Universities/Colleges/Hospitals) recognized by Govt. engaged in teaching and research in the areas mentioned in the requisite qualifications may be considered for admission under the sponsored seats.</i>	03.06.2008 2.00 a.m.	08.07.2008 10.00 a.m.						
M.Tech.	Bioinformatics	15	Second class Master's 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 MBBS or an equivalent degree in Indian system of medicine like BAMS, BHMS, BUMS with a minimum of 55% marks in aggregate; OR B.Pharmacy, B.Tech with a minimum of 60% marks.	04.06.2008 10.00 a.m.	09.07.2008 10.00 a.m.						
M.Tech.	Mineral Exploration	15*	Second class 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.	06.06.2008 2.00 p.m.	05.07.2008 10.00 a.m.						
Adv. PG Diploma	Mineral Exploration	15*	Second class 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.	06.06.2008 2.00 p.m.	05.07.2008 10.00 a.m.						
M.Tech./ Ph.D.	Materials Engineering	12	B.E., B.Tech., or M.Sc. (with Mathematics in B.Sc) with a minimum of 60% marks (GATE qualified candidates will be given preference)	07.06.2008 2.00 p.m	09.07.2008 10.00 a.m.						

* Sponsored Seats

Note: 1. In all the cases where their qualifying examination is declared as passed in "compartmental or pass or instant etc.," will be treated as equivalent to 3rd-Division/class only irrespective of the percentage of marks they secured.

Intake, Minimum qualifications for admission and schedule for written tests/interviews M.Phil. Courses

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of Written test	Date and time of interview
M.Phil.	English	18	Master's degree in English with at least 55% marks	05.06.2008 10.00 a.m.	04.07.2008 & 05.07.2008 10.00 a.m.
M.Phil.	Philosophy	11	Second class Master's degree in Philosophy with at least 55% marks	05.06.2008 2.00 p.m.	04.07.2008 10.00 a.m.
M.Phil.	Hindi	18	Second class Master's degree in Hindi with at least 55% marks	05.06.2008 2.00 p.m.	04.07.2008 10.00 a.m.
M.Phil.	Telugu	18	Second class Master's degree in Telugu with at least 55% marks	05.06.2008 2.00 p.m.	04.07.2008 10.00 a.m.
M.Phil.	Urdu	25	Second class Master's degree in Urdu with at least 55% marks	05.06.2008 2.00 p.m.	04.07.2008 10.00 a.m.
M.Phil.	Applied Linguistics	09	Second class Master's degree in the subject concerned (Linguistics / Applied Linguistics / Translation) with at least 55% marks; OR Master's degree in allied subjects with at least 55% marks and a postgraduate diploma in Linguistics / Applied Linguistics or an equivalent field in Linguistics. Allied subjects for Applied Linguistics include all language and literature disciplines, Philosophy, Anthropology, Sociology, Psychology, Computer Science, Mathematics, Statistics and Communication Studies.	04.06.2008 2.00 p.m.	04.07.2008 10.00 a.m.
M.Phil.	Translation Studies	09	Second class Master's degree in any subject with a minimum of 55% marks with proficiency in two languages reflected either in previous degree work or at the entrance examination for this M. Phil.	06.06.2008 10.00 a.m.	05.07.2008 10.00 a.m.
M.Phil.	Comparative Literature	08	Second class Master's degree in Comparative Literature with at least 55% marks; OR Second class Master's degree in any language/literature or in linguistics with at least 55% marks, whatever the M.A., the candidate must present documentary evidence of knowledge of two literatures.	03.06.2008 2.00 p.m.	06.07.2008 10.00 a.m.
M.Phil.	Shabdabodha Systems & Lang. Tech.	10	Master's Degree in Sanskrit or equivalent with at least 55% marks	04.06.2008 10.00 a.m.	06.07.2008 10.00 a.m.
M.Phil.	Economics	25	Second Class Master's degree in Economics, OR any of the allied subjects with at least 55% of marks. List of allied subjects : Applied Economics, Statistics, Mathematics, Agricultural Economics, Applied Statistics, Operations Research, Econometrics, Applied Econometrics, Mathematical Economics, Quantitative Economics, Business Economics, Financial Economics	02.06.2008 2.00 p.m.	04.07.2008 10.00 a.m.
M.Phil.	History	12	Second class Master's degree in History with at least 55% marks or equivalent grade; OR First class 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.)	06.06.2008 10.00 a.m.	04.07.2008 10.00 a.m.
M.Phil.	Political Science	16	Second class Master's degree in Political Science or Public Administration with at least 55% marks.	05.06.2008 2.00 p.m.	04.07.2008 10.00 a.m.
M.Phil.	Sociology	10	Second class Master's degree in Sociology or Social Anthropology with at least 55% marks.	05.06.2008 2.00 p.m.	04.07.2008 10.00 a.m.
M.Phil.	Anthropology	06	Second class Master's degree in Anthropology with at least 55% marks; OR First class 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 Development Studies including Rural and Regional Development)	05.06.2008 10.00 a.m.	08.07.2008 10.00 a.m.
M.Phil.	Regional Studies	04	Second class Master's degree with at least 55% marks or equivalent grade in any of the Social Science subjects.	03.06.2008 2.00 p.m.	09.07.2008 10.00 p.m.
M.Phil.	Social Excl. & Incl. Policy	07	Second Class Master's degree with at least 55% marks in any of the Social Sciences / Humanities subjects.	02.06.2008 10.00 a.m.	10.07.2008 10.00 a.m.
M.Phil.	Cognitive Science	07	Second Class Master's degree in any discipline in the humanities or social or natural sciences with at least 55% marks.	02.06.2008 10.00 a.m.	09.07.2008 10.00 a.m.
M.Phil.	Gender Studies	06	Second Class Master's degree with a minimum of 55% marks in aggregate in Social Sciences, Humanities, Management, Sciences, Performing Arts and Communication	06.06.2008 2.00 p.m.	11.07.2008 10.00 a.m.

Note: 1. In all the cases where their qualifying examination is declared as passed in "compartmental or pass or instant etc.," will be treated as equivalent to 3rd-Division/class only irrespective of the percentage of marks they secured.

Intake, Minimum qualifications for admission and schedule for written tests/interviews

Ph.D. Programmes in Science Schools

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of Written test	Date and time of interview
Ph. D.	Mathematics/ Applied Maths/ Statistics-OR	04	Second class Master's degree in concerned or related subjects with at least 55% marks or equivalent grade.	03.06.2008 2.00 p.m.	06.07.2008 10.00 a.m.
			same as above	02.06.2008 2.00 p.m.	
Ph. D.	Computer Science	15	Masters Degree in any Engineering/Technology; OR M.Phil. in Mathematics or Statistics or Electronics; OR First class degree in BE/ B.Tech.; OR First class Master's degree in Computer Applications/ Mathematics / Statistics / Electronics / Information Systems / Internet Technology / Geoinformatics / Bioinformatics.	05.06.2008 10.00 a.m.	07.07.2008 & 08.07.2008 10.00 a.m.
Ph. D.	Physics	10	Second class M.Sc. degree with at least 55% marks in Physics or a closely related area OR First Class B.E. / B.Tech degree in an appropriate area with strong aptitude in Physics. Note: For B.E./B.Tech. candidates, the admission is subject to qualifying in the stipulated course work.	02.06.2008 2.00 p.m.	08.07.2008 10.00 a.m.
Ph.D.	Electronics Science	04	Second class M.Sc. degree with at least 55% marks in Electronics or Physics OR First Class B.E./ B.Tech degree with a minimum of 60% marks, with Electronics as one of the subjects. Note: For B.E./B.Tech. candidates, the admission is subject to qualifying in the stipulated course work.	06.06.2008 10.00 a.m.	09.07.2008 10.00 a.m.
Ph. D.	Chemistry	30	Second class M.Sc OR equivalent degree with at least 55% marks (Note: B.Tech, B.Pharm. etc., are also treated as equivalent to M.Sc for this purpose.)	04.06.2008 10.00 a.m.	06.07.2008 10.00 a.m.
Ph.D.	Biochemistry	12+3#	Second class 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.	06.06.2008 2.00 p.m.	05.07.2008 10.00 a.m.
Ph.D.	Plant Sciences	20	Second class Master's degree in Plant Sciences or in a closely related area with at least 55% marks	02.06.2008 2.00 p.m.	05.07.2008 10.00 a.m.
Ph. D.	Animal Sciences	15	Second class Master's degree in Animal Sciences or in a closely related area with at least 55% marks; OR an M.B.B.S., M.Pharm, M.V.Sc. degree with a minimum of 55% marks.	04.06.2008 2.00 p.m.	06.07.2008 10.00 a.m.
Ph.D.	ACRHEM	20	Same as above in the case of Ph. D. Mathematics / Applied amaths / Statics-OR, Computer Science; Physics / Electronics Science; and Chemistry	03.06.2008 10.00 a.m.	10.07.2008 10.00 a.m.
Ph.D.	Biotechnology	06	Second Class 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 minimum of 55% marks	02.06.2008 10.00 a.m.	07.07.2008 10.00 a.m.
Ph.D.	Cognitive Science	03	Second Class Master's degree in any discipline in the Humanities or Social or Natural Sciences with at least 55% marks.	02.06.2008 10.00 a.m.	09.07.2008 2.00 p.m.
M.Tech./ Ph.D	Materials Engineering	12	BE/B.Tech. or M.Sc (with Mathematics in B.Sc) with a Minimum of 60% marks (GATE Qualified candidates will be given preference)	07.06.2008 2.00 p.m.	09.07.2008 10.00 a.m.
Ph.D.	Cancer Biology	02	MBBS with a minimum of 55% aggregate marks or M.D. degree in the specialization or related area. Candidates must be pursuing research in Institutions recognized by the University of Hyderabad. Selection for admission will be based on weightage given to presentation of (a) Researchy work already carried out (b) Doctoral research proposal & (c) Interview.	----	10.07.2008 10.00 a.m.
Ph.D.	Infection Biology	02	Same as above	----	10.07.2008 10.00 a.m.
Ph.D.	Community Nutrition	02	Same as above	----	10.07.2008 10.00 a.m.

External Seats

- Note: 1. The approved intake for Ph.D. is expected to be filled over four sessions in July 2008, and October 2008, January 2009, and April 2009. Therefore, all the seats need not necessarily be filled in July 2008 alone.
2. Candidates possessing M.Phil/M.Tech./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 courses.
3. In all the cases where their qualifying examination is declared as passed in "compartmental or pass or instant etc.," will be treated as equivalent to 3rd-Division/class only irrespective of the percentage of marks they secured.

Intake, Minimum qualifications for admission and schedule for written tests/interviews Ph.D. programmes in Humanities, Social Sciences and S. N. School

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of Written test	Date and time of interview
Ph. D.	English	06	M. Phil degree in the subject concerned and Master's degree in the subject concerned with at least 55% marks; O R 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; O R 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.	04.06.2008 10.00 a.m.	06.07.2008 10.00 a.m.
Ph.D.	Dance	03	Same as above Note: The concerned subjects are Dance and related areas.	03.06.2008 10.00 a.m.	05.07.2008 10.00 a.m.
Ph.D.	Theatre Arts	02	Same as above Note: The concerned subjects are Theatre Arts.	02.06.2008 2.00 p.m.	06.07.2008 10.00 a.m.
Ph. D.	Philosophy	08	M. Phil degree in the subject concerned and second class Master's degree in the subject concerned with at least 55% marks; O R Second class 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/Lectureship; O R First class 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 recognised institute of higher learning or a minimum of 3 publications in a recognised refereed journal in the subject in which admission is sought.	05.06.2008 10.00 p.m.	05.07.2008 10.00 a.m.
Ph. D.	Hindi	11	Same as above	05.06.2008 10.00 a.m.	05.07.2008
Ph.D.	Telugu	10	Same as above	05.06.2008 10.00 a.m.	10.00 a.m. 05.07.2008
Ph. D.	Urdu	12	Same as above	03.06.2008 2.00 p.m.	10.00 a.m. 05.07.2008
Ph.D.	Comparative Literature	04	Same as above <i>Note: The concerned subject is Comparative Literature OR English OR Indian Language / Literature; furthermore a candidate without any earlier Comparative literature degree must present documentary evidence of knowledge of two literatures.</i>	05.06.2008 2.00 p.m.	10.00 a.m. 06.07.2008 2.00 p.m.
Ph.D.	Communi- Cation	04	Same as above Note: The concerned subjects are Communication or Journalism.	02.06.2008 2.00 p.m.	07.07.2008 10.00 a.m.
Ph. D.	Economics	18	Second class M.A. in the subject concerned (with at least 55% marks) or Equivalent Grade or First Class M.A. in allied subjects (with at least 60% marks) or Equivalent Grade with M.Phil. Degree /UGC JRF qualification /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 First class 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.	02.06.2008 2.00 p.m.	05.07.2008 10.00 a.m.

- Note: 1. The approved intake for Ph.D. is expected to be filled over four sessions in July 2008, and October 2008, January 2009, and April 2009. Therefore, all the seats need not necessarily be filled in July 2008 alone.
2. Candidates possessing M.Phil/M.Tech./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 courses.
3. In all the cases where their qualifying examination is declared as passed in "**compartmental** or **pass** or **instant** etc.," will be treated as equivalent to 3rd-Division/class only irrespective of the percentage of marks they secured.

Intake, Minimum qualifications for admission and schedule for written tests/interviews Ph.D. programmes in Humanities, Social Sciences and S. N. School

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of Written test	Date and time of interview
Ph. D.	History	10	Second class M.A. in the subject concerned (with at least 55% marks) or Equivalent Grade Or First Class M.A. in allied subjects (with at least 60% marks) or Equivalent Grade with M.Phil. Degree /UGC JRF or 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 First class 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.	04.06.2008 10.00 a.m.	05.07.2008 10.00 a.m.
Ph. D.	Political Science	10	Same as above Note: The concerned subjects are Political Science or Public Administration	05.06.2008 10.00 a.m.	05.07.2008 10.00 a.m.
Ph.D.	Regional Studies	02	Second class M.A. in any of the Social Science subjects with at least 55% marks or Equivalent Grade Or First Class M.A. in allied subjects (with at least 60% marks) or Equivalent Grade with M.Phil. Degree in a Social Science subject/UGC JRF/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.	03.06.2008 2.00 p.m.	09.07.2008 2.00 P.m.
Ph. D.	Sociology	08	M. Phil degree in the subject concerned and second class Master's degree in the subject concerned with at least 55% marks; OR Second class 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 Note: The concerned subjects are Sociology or Social Anthropology	06.06.2008 10.00 p.m.	05.07.2008 10.00 a.m.
Ph. D.	Anthropology	06	M.A./M.Sc in Anthropology with minimum 55% marks with second class OR First class M.A. in allied subject with at least 60% marks; AND M.Phil degree in Anthropology or allied subjects OR UGC-JRF or equivalent qualification OR Two years of teaching/research 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.	05.06.2008 10.00 a.m.	08.07.2008 2.00 p.m.
Ph.D.	Social Excl. & Incl. Policy	03	Second Class M.A. in Social Sciences or Humanities subjects with at least 55% marks or equivalent Grade OR First Class M.A. in allied subjects with at least 60% marks or Equivalent Grade with M.Phil Degree/UGC JRF or NET qualification for Lectureship/Two years of teaching/research experience in the subject concerned or three publications in any of the above subjects in a refereed journals	06.06.2008 10.00 a.m.	10.07.2008 2.00 P.m.
Ph. D.	Applied Linguistics	05	Second class M.A. in the subject concerned (with at least 55% marks) or First Class M.A. / M.Sc. in allied subjects (with at least 60% marks) with M.Phil. Degree/UGC JRF 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. OR First class 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.	02.06.2008 2.00 p.m.	04.07.2008 10.00 a.m.

- Note: 1. The approved intake for Ph.D. is expected to be filled over four sessions in July 2008, and October 2008, January 2009, and April 2009. Therefore, all the seats need not necessarily be filled in July 2008 alone.
2. Candidates possessing M.Phil/M.Tech./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 courses.
3. In all the cases where their qualifying examination is declared as passed in "compartmental or pass or instant etc.," will be treated as equivalent to 3rd-Division/class only irrespective of the percentage of marks they secured.

Intake, Minimum qualifications for admission and schedule for written tests/interviews Ph.D. programmes in Humanities, Social Sciences and S. N. School

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of Written test	Date and time of interview
Ph. D.	Translation Studies	05	Second class M.A. in any subject (with at least 55% marks) with M.Phil. Degree/ UGC JRF 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. OR First class 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.	04.06.2008 2.00 p.m.	05.07.2008 2.00 p.m.
Ph.D	Sanskrit Studies (with spl. in Lang. Tech.)	04	M.A. in Sanskrit with at least 55% marks or P.G. Diploma in Sanskrit from a recognized Institution AND M.Phil Degree or qualified in UGC JRF OR M.A. in Natural Language Processing OR PG Diploma in Computational Linguistics OR PG Diploma in Linguistics.	06.06.2008 10.00 a.m.	06.07.2008 2.00 p.m.
Ph.D	Folk Culture Studies	04	Second Class 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 or for Lectureship in any of the above subjects. (c) 2-years teaching experience in any of the above subjects 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.	06.06.2008 2.00 p.m.	06.07.2008 10.00 a.m.
Ph.D	Management Studies	08	First Class Master's degree or its equivalent in Management or Commerce or Accounting (MBA, M.Com, C.A, ICWA)	05.06.2008 2.00 p.m.	09.07.2008 10.00 a.m.
Ph.D.	Psychology	04	M.Phil. Degree in the subject concerned and Second Class Master's Degree in the subject concerned with atleast 55% marks OR Second class Master's Degree in the subject concerned with a minimum of 55% marks and qualified for JRF	03.06.2008 10.00 a.m.	07.07.2008 10.00 a.m.
Ph.D.	Earth and Space Sciences	06	Second class Master's degree in Earth / Ocean / Atmospheric Sciences, Remote Sensing or a closely related area with atleast 55% marks	04.06.2008 2.00 p.m.	10.07.2008 10.00 a.m.

5-year Integrated Master degree courses

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of Written test	Date and time of interview
I.M.Sc.	Mathematical Sciences/ Physics/ Chemical Sciences/ Systems Biology	45	First Class with a minimum of 60% marks at +2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent)	07.06.2008 10.00 a.m.	07.07.2008 to 09.07.2008 10.00 a.m.
I.M.A. in Humanities	Languages (Hindi, Telugu, Urdu)/Language Sciences,	40	First Class with a minimum of 60% marks at +2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent)	05.06.2008 10.00 a.m.	07.07.2008 to 09.07.2008 10.00 a.m.
I.M.A.	Social Sciences	50	First Class with a minimum of 60% marks at +2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent)	07.06.2008 2.00 p.m.	07.07.2008 to 09.07.2008 10.00 a.m.
I.M.Sc.	Health Psychology	12	First Class with a minimum of 60% marks at +2 level of education or equivalent (Intermediate/ CBSE/ ICSE/ HSC or equivalent) in Arts and Sciences	03.06.2008 10.00 a.m.	05.07.2008 & 06.07.2008 10.00 a.m.
I.M.Sc.	Optometry & Vision Sciences	20	First Class with a minimum of 60% aggregate marks in Intermediate/CBSE/ICSE/HSC or equivalent Board Examination.	02.06.2008 10.00 a.m.	05.07.2008 & 06.07.2008 10.00 a.m.
I.M.Sc.	Nursing Sciences	20	First Class with a minimum of 60% aggregate marks in Intermediate/CBSE/ICSE/HSC or equivalent Board Examination.	05.06.2008 10.00 a.m.	05.07.2008 & 06.07.2008 10.00 a.m.

- Note: 1. The approved intake for Ph.D. is expected to be filled over four sessions in July 2008, and October 2008, January 2009, and April 2009. Therefore, all the seats need not necessarily be filled in July 2008 alone.
2. Candidates possessing M.Phil/M.Tech./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 courses.
3. In all the cases where their qualifying examination is declared as passed in "compartmental or pass or instant etc.," will be treated as equivalent to 3rd-Division/class only irrespective of the percentage of marks they secured.

SCHOOLS OF STUDIES

SCHOOL OF MATHEMATICS & 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 & 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 a **Ph.D.** programme 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/Statistics-OR)** is based on a written test followed by an interview. The written test consists of objective type questions only.

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

- Sets, sequences, series, limits, continuity, differentiation, integration, graphs of functions, coordinate geometry of two and three dimensions, group theory, vector spaces, matrices, determinants, linear transformations, rank, nullity, eigen values, system of linear equations, elementary probability, distribution theory 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.
- Estimation – 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 in either Mathematics or Applied Mathematics.

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

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

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

Those candidates who have a UGC-CSIR/NBHM fellowship need not appear for the written exam, but have to appear for the interview. These candidates will be given 40 marks out of 75 for the written exam. A majority of questions in the written test for admission to **Ph.D. Programme (Mathematics, Applied Mathematics)** will be at the level of M.Sc. in the

following areas: Real Analysis, Complex Analysis, Algebra, Linear Algebra, Topology, Functional Analysis, Ordinary and Partial differential equations, Calculus of Variations, Classical Mechanics, Numerical Analysis.

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

The questions need not only be of the objective type and may require writing out answers. Credit will be given more to the understanding of concepts rather than to mechanical proofs of the results.

Infrastructure facilities

The Department has good computing facilities. There are three labs. A Statistics lab with 15 PC's and 2 UGC (SAP) labs with 25 Pentium -IVs.

These labs have licensed versions of Mathematica and SPSS.

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

Faculty

Professors

V.Kannan, Ph.D.(Madurai) F.A.Sc., F.N.A. - Topology and Analysis (**Pro-Vice-Chancellor - 1**)

R.Tandon, Ph.D.(Yale) - Algebraic Number Theory, Cryptology (**Head of the Department**)

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

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

V. Suresh, Ph.D. (TIFR, Mumbai) F.A.Sc. – Algebra & Algebraic Geometry

S. Kumaresan, Ph.D. (TIFR, Mumbai) – Differential Geometry, Analysis, Pedagogy

Readers

Sajal Kumar Ray, Ph.D. (I.I.T.Kanpur) - Functional Analysis and Applications

Sushma M.Bendre, Ph.D. (Pune) - Outliers and Regression Diagnostics

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

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

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

B.Shobha, Ph.D. (I.I.T.Delhi) - Statistical Inference and Reliability

Lecturers

M.Sumanth Datt, Ph.D. (Hyderabad) - Algebraic Geometry

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

Usha Mohan, Ph.D. (ISI, Bangalore) – Operations Research

Vishnu Nambhoorthi K, (M.Sc., Kerala) – Algebraic Number Theory

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

Jawaharlal Nehru Chair Professor

B.L.S. Prakasa Rao, Ph.D. (MSU, USA) FASc., FNA, FNASc–Probability, Inference & Stochastic Processes

Adjunct Professor

Prof. P. Bhimasankaram, Ph.D. (ISI, Calcutta) -Applied Analysis Linear Models, Multivariate Analysis, Linear Algebra

Department of Computer and Information Sciences

The Department of Computer and Information Sciences offers high quality post-graduate teaching and research programmes in all major areas of Computing, Information Science and Artificial Intelligence. The department has the unique distinction of offering M.Tech. programmes in Artificial Intelligence, and in Information Technology with specialisation in Banking Technology and Information Security. The current research areas include Computer Networks and Distributed Processing, Data Base Management Systems, Software Engineering, Computer and Network Security, Mobile Computing, Logic, Decision Support Systems, Enterprise Resource Planning, E-Commerce, Geographical Information Systems, Data Warehousing and Data Mining, Bioinformatics, Artificial Intelligence, Machine Learning, Cognition, Natural Language Engineering, Speech Processing, Image Processing, Pattern Recognition, Vision, Parallel & Grid Computing. The department has a very vibrant Ph.D. programme with more than 50 registered students as on date.

The Department maintains active contacts with both industry and research labs and participates in developing state-of-art computing systems. Department of Science and Technology (DST), Govt. of India has recognized the Department's research contribution by funding it under FIST programme. Research labs in the department are supported by various national and international funding agencies like DST, AICTE, MIT, Govt. of India, Verizon Inc. USA.

For strengthening research in Software Engineering and Business Process Re-engineering, it has initiated academic collaboration with United Nations University/ International Institute of Software Technology, Macau and University of Trento, Italy. Recently, the Department

has signed MoUs with CMC, IBM, ISTL, Sierra Atlantic and Pramati to promote research and teaching programme in Business Processes Re-engineering and Middleware Technology.

The Department currently executes several research projects (funded by MIT, UGC, ISRO, DRDO, MHA, DST etc.) on Content-Based Image Retrieval, Natural Language and Speech Processing, Grid Computing, Neural Networks, Formal Methods in Software Engineering, Business Process Re-engineering, Forensic Document Analysis and System Security. Ph.D. students may have opportunity to work at University of Trento, Italy, to carry out research in Formal Methods for Business Process Re-engineering. As the department always has a high priority for research, it strongly encourages fresh and brilliant students to participate in the above exciting research programmes as full-time Ph.D. students. Under these projects some fellowships may be available for supporting brilliant and needy Ph.D. students.

Post-Doctoral Fellowships are available for research in specific areas in collaboration with IDRBT. GATE fellowships may be considered for the eligible M.Tech. students by the UGC/AICTE as per their norms.

For M.Tech. (IT) students IDRBT provides scholarships for meritorious students as per the institute's terms and conditions. In addition, a limited financial assistance is also available to meritorious students with financially/socially weak backgrounds.

The quality of education in the department not only attracts high calibre students from different parts of our country but also a good number of international students.

Programmes of Study

The Department offers four different programmes of study leading to: **M.C.A.**, **M.Tech. (Computer Science)**,

M.Tech. (Artificial Intelligence) and **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 participates in the M.Tech. programme in Computational Techniques run by School of Physics, M.Tech (Bio-informatics) of School of Life Sciences & 5 - year Integrated M.A., and M.Sc., courses.

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

The **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.

M.Tech. (Computer Science) is a four-semester course including two semesters of course work and two semesters of project work. This programme is meant for graduates in engineering disciplines and postgraduates in related sciences and as such it includes both fundamental topics and advanced topics for specialisation.

M.Tech. (Artificial Intelligence) is also a four-semester course including two semesters of course work and two semesters of project work. This programme is meant for students already well equipped in computing sciences and as such imparts advanced training in all the major areas of artificial intelligence and other emerging technologies, such as machine learning, data mining, etc.

M.Tech. (Information Technology) is a four-semester programme including two semesters of course work and two semesters of project work meant for graduates in engineering discipline and postgraduates in related sciences. This unique M.Tech. programme in Information Technology with specialization in Banking Technology and Information Security aims at imparting in-depth knowledge and state-of-the art expertise to the students through innovative learning supported by high calibre research and technology leadership to create a pool of responsible and resourceful IT professionals, in particular, for the financial-banking sector.

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

Sponsored candidates: Employees with a minimum 2 years 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. Candidates should have requisite qualifications for admission. Sponsored candidates are required to appear in interview only. A candidate seeking admission in this category into M.Tech. (CS/AI) must submit (along with application) the organization's willingness to pay **One Lakh Rupees per candidate** (one time) to the development fund of the department. Candidates are required to pay usual tuition and other fees as prescribed by the University for other students.

Foreign candidates: Foreign nationals seeking admission in M.Tech. programme should have required qualification. Candidates should have ability to communicate in English. In order to support this ability a good score in TOEFL is desirable. In addition, students should submit a letter of reference.

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

The Ph.D. programme is offered on full time, part time and external registration basis as per the university regulations. An idea about the areas of research can be obtained from the departmental objectives and faculty profile. A good *TOEFL score is desirable for admission of foreign students to Ph.D.* A few fellowships are provided by IDRBT for selected research scholars admitted to the Ph.D programme.

Entrance examination

Admission to the **MCA** programme is based on the written test conducted by the University. The written test consists of objective type questions in two parts. 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.

Admission to **M.Tech.** in Computer Science, Artificial Intelligence and Information Technology courses is based on a written test followed by an interview. The written test consists of objective type questions. Syllabus for the test will be in Computer Science subjects that include Computer Programming (C and C++), Data Structures, Algorithms, Operating Systems, Computer Organization, Digital Electronics, Computer Networks, Engineering Mathematics and General Aptitude. The short-listed candidates will be called for interview.

GATE percentile will be the basis to call the candidates for written test. Following table summarizes the cutoff

for various categories of applicants having valid GATE scores to be called for written test:

GATE scores in percentile (>)

GE	SC/PH	ST
90	80	65

Division of students between Computer Science, Artificial Intelligence and Information Technology is based on the options they have exercised at the time of applying. Request for change of option will not be entertained at the time of interview. Admission and tuition fees for all the three M.Tech. programmes are uniform. GATE scores, Written Test and Interview will be having the following weightages, ie., 25%, 50% and 25% respectively.

The written test for admission to the **Ph.D.** programme will have objective type questions, short answer questions, descriptive questions and technical comprehension. The written test covers the areas of 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. Foreign students are required to submit past academic records, three reference letters, and statement of purpose. They must have good ability to communicate in English. In order to support the claim a good score in TOEFL is desirable. At the time of interview candidates must come prepared with a tentative research plan writeup of maximum size of 4 pages.

Pre-Ph.D course work and comprehensive viva for registration to Ph.D. programme

From the Academic year 2008-09, the candidates admitted to Ph.D. programme in the School i.e. in both

the Departments shall be governed by the following rules :

Students shall go through a set of core and elective courses to be decided by the respective doctoral Committees of the candidates concerned and they are expected to pass (obtain 50%) in each course with an aggregate of more than 60% all the courses put together. After successful completion of the courses, there will be comprehensive viva voce examination. The viva voce will be conducted by the Doctoral Committee.

On completion of the viva voce, the candidates will be allowed to continue their registration for Ph.D. The candidates have to finish the comprehensive viva voce within one year of joining the programme.

Infrastructural facilities

The facilities at the Department include a variety of computing machines such as SUN Workstations, High Speed Pentium based Multi-Media Personal Computers with high precision Graphics Cards, network support running Linux, Windows NT, Windows 98 etc., all equipped with the latest software packages. Image Processing equipment such as flat-bed scanners, 20” high-resolution monitors, CCD-Cameras, CD-writers, Lasers and Deskjet Printers is also available to students.

Under DST-FIST programme, the Department has set up Software Engineering lab, Spoken Language Processing lab, Network & Security Systems lab besides Embedded Systems Lab, Computer Vision and Image Processing Lab. It also hosts a resource center for Telugu Language funded by MCIT, Govt. of India.

Software such as 3D-Studio Max, Adobe Premiere, Dragon Naturally speaking software, multi-lingual text, MS Windows NT Back office, MS Visual Studio 6.0, MS Office 2000, Red Hat Linux etc. are available in the department. 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, Logic and Reasoning. (on EOL)

Arun Agarwal, Ph.D. (I.I.T, Delhi) B.Tech. (I.I.T Delhi), SMIEEE, FIETE - Image Processing, Computer Vision, Pattern Recognition and Neural Networks, Grid Computing. **(Head of the Department).**

Hrushikesh Mohanty, Ph.D. (I.I.T.Kharagpur) - Distributed Computing, Software Engineering, Business Process Re-engineering, Mobile Computing. (Sabbatical leave for one year from 1.7.2008)

P.N. Girija, Ph.D. (SVU) – Speech Synthesis, Speech Recognition, Spoken Dialog Systems, Human Computer Interaction, Intelligent Agents

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

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

Readers

P.R.K. Murti, Ph.D. (I.I.T.Kharagpur) M.B.A (KUL, Belgium), L.L.M.- Decision Support Systems, e-commerce, Finance & Legal Info Systems.

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.

Atul Negi, Ph.D. (Hyderabad) M.S.(I.I.Sc., Bangalore)- Pattern Recognition and its Applications, Computer Networks. (on EOL)

Rajeev Wankar, Ph.D. (DAVV, Indore) – Parallel & Grid Computing.

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

Lecturer (senior scale)

T. Sobha Rani, M.Tech. (JNTU) - Bioinformatics, Machine Learning Techniques, Language Processors.

Lecturers

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

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

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

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

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

PSVS Sai Prasad, M.Tech. (Sri Satya Sai University, Prasanthi Nilayam) – Neural Networks, Speech Recognition, Unix Internals

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

N. Rukma Rekha, M.Tech. (CSE) (Andhra University)- Object Oriented Design with UML, Cryptography, Pervasive Computing.

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

Faculty of IDRBT

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

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

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

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

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

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

Visiting Professors

B.L. Deekshatulu, Ph.D. (IISc, Bangalore, Fellow IEEE)- Remote Sensing, Digital Image Processing & Pattern Recognition.

SCHOOL OF PHYSICS

The School of Physics has developed high quality teaching programmes at the **M.Sc. and M.Tech.** levels with student-teacher ratio highly favourable for giving individual attention.

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

The School has been selected by the UGC as a Centre for Advanced Studies to strengthen its teaching and research programmes under the Special Assistance Programme; DST has provided support under the FIST programme.

Prof.Vipin Srivastava is the Dean of the School.

Programmes of study

The School offers Integrated M.Sc. (Physics) (in collaboration with Special Centre for Integrated Studies), M.Sc. (Physics), M.Tech. in Computational Techniques, M.Tech. in IC Technology, Ph.D. in Physics, and Ph.D. in Electronics Science.

Integrated M.Sc. (Physics) : This programme is of five years (10 semester) duration culminating in a project. The courses taken by the students during the first five semesters are Mechanics and properties of matter, Kinetic Theory and Thermodynamics, Waves and Optics, Electromagnetic Theory and Modern Physics, and Atomic & Molecular Physics with Emphasis on tutorials and problem solving.

M.Sc (Physics): This programme 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 (2), Mathematical Methods (2), Nuclear Physics, Introductory Particle Physics, Solid State Physics, Laser Physics, Computer Applications, Electronics, Special Relativity and Electromagnetism, 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 specialisations:

- a) Particle Physics and Field Theory
- b) Solid State 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.

M.Tech. in Computational Techniques: This is a four semester programme open to students with Master's Degree in Physics or in related areas. The objective of this programme is to train physicists in modern areas of computational techniques suitable for Solving physics problems using simulation methods. The first

two semesters involve formal instruction, while the third and fourth semesters are devoted to project work. The subjects covered include: numerical techniques, mathematical methods, computer organisation, 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 programme is being offered with the participation of the Department of Computer/ 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 & Information Sciences, or other recognised R & D centres in Hyderabad.

M.Tech. (I.C. Technology): This is a four semester programme with two semesters of course work and two semesters of project work. The programme 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 both Govt. and private laboratories/ industries will be participating in this programme, both in teaching as well as in the project work.

Ph.D.: Admission to the Ph.D. programme is open to M.Sc, M.Phil., and B.E./B.Tech. graduates. **All**

students admitted into the Ph.D. programme are required to undergo course work followed by a comprehensive qualifying examination. Satisfactory completion of course work in (the maximum of) two semesters with at least 50% marks and passing the qualifying comprehensive examination is a prerequisite for confirmation / continuation of Ph.D. registration. This is a research programme 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 and defence of the thesis in a viva voce.

Entrance examination

The written test for **Integrated M.Sc (Physics)** will be mainly in physics of class XII level. It will be followed by an interview for short-listed candidates.

The test for **M.Sc. (Physics)** will mainly be in Physics (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 have to appear for an interview.

There will be two separate entrance examinations— one for Ph.D. (Physics) and another for Ph.D. in Electronics Science.

For admission to the **Ph.D. in Physics**, there will be a written test and an interview. The material covered in

the 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. The examination will consist of objective type questions.

The entrance test for admission to **Ph.D. in Electronics Science** is also based on the syllabi at the M.Sc. level covering basic Physics with emphasis on electromagnetic theory and electronics.

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.

For admission to **M.Tech. in IC Technology**, the written test will be based on syllabi at M.Sc. and B.E./B.Tech. level covering electronics and physics such as Basic Mathematics, EM theory, Solid State Physics, Quantum Mechanics, Optics, Heat & Thermodynamics, Semiconductor Devices, Circuits, Digital Electronics, microprocessors, microwaves, Control Systems, Signal Processing, Communications, Numerical Analysis, error estimates, graphs and related areas. The examination will consist of objective type questions. The written test will be followed by an interview for the short listed candidates.

Infrastructural facilities

Materials preparation and characterisation facilities, including Nanocluster deposition systems, pulsed laser deposition system, Nano Indenter, C- V & I- V measurement system, Wafer inspection microscope, 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, electronic equipment for measurement of electrical and thermal transport properties, field cycling NMR spectrometer, pulsed NMR equipment, vibrating sample magnetometer, closed cycle helium refrigerator, INEL X-ray diffractometer with wide angle position sensitive detector, atomic force microscope, vector network analyser are some of the facilities available. Laser spectroscopy using pulsed Nd-YAG high power helium-neon and nitrogen lasers, dye laser and Femto second laser facilities, ESR, NMR, Mossbauer and laser Raman spectrometers are also available. Varieties of EDA tools (complete VLSI tools from FPGA implementation, PCB layout design tools) are also available. Microfabrication facilities, including mask aligner, scribe, wire bonder, profiler, spin coater, has been recently set up. A liquid Helium plant has been commissioned.

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 attracts substantial funding from agencies such as UGC, CSIR, DST, DAE, DRDO, ISRO and DOE for research work. The school has a teaching laboratory with 15 terminals connected to a Pentium server.

CMSD/HPCF computer facility is used for simulation work.

Faculty

Professors

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)

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) (on sabbatical leave)

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

A.K. Kapoor, Ph.D. (I.I.T.Kanpur) - Elementary Particles, Quantum Field Theory, Path Integrals (T)
(Head, Special Centre for Integrated Studies (SCIS))

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

C. Bansal, Ph.D. (TIFR, Bombay) - Condensed Matter Physics, Phase Transformations, Mossbauer Spectroscopy, Nanomaterials (E)

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

S. Chaturvedi, Ph.D. (Waikato, NZ) F.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 Spectros-copy (E)

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

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

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

M. Siva Kumar, Ph.D. (Madras) - Quantum Field Theory (T) (on sabbatical leave)

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

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

Readers

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

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

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

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

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

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

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

Lecturers

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

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

Ashok Vudayagiri, Ph.D. (Hyderabad) – Quantum Optics, Laser Cooling, Quantum Information (E)

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

S. Srinath, Ph.D. (Hyderabad) – Condensed matter physics, Magnetic nanostructures, Multilayers/thin films, Magnetic oxides, Multiferroics (E)

E.Harikumar, Ph.D. (Hyderabad) – Quantum field theory and gravity (T)

Guest Faculty

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

Distinguished Faculty

CSIR Chair Professor

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

Visiting Professors

Subodh R. Shenoy, Ph.D (Yale) – Condensed Matter Physics (T)

T.S.N. Somayaji, Ph.D. (A.U) – Electronic Circuit Design, Communication.

SCHOOL OF CHEMISTRY

The School of Chemistry is a dynamic centre for research at the frontiers 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 **M.Sc.** degree course has no specialization; however students take elective courses and a research project in a chosen area in the IV semester. This gives students completing the M.Sc. degree course freedom to take up research in a variety of specialized fields which range from the intersections of chemistry with biology on the one hand and with physics on the other. Within the mainstream, there is an emphasis on areas such as synthetic, supramolecular and materials chemistry, bioorganic and medicinal chemistry, computational chemistry and chemical physics, and a wide variety of subjects within the inorganic domain.

The School of Chemistry has made notable impact on the chemical research scene and is widely acclaimed at the international and national levels. The School receives support from a large number of research grants from funding agencies like DST and 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 effective from 1.4.2004.

The School website can be reached at <http://202.41.85.161/>

Prof. D. Basavaiah is the Dean of the School.

Programmes of study

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

The **M.Sc.** programme lasting four semesters comprises 3 courses each in Organic, Inorganic, Physical and Theoretical Chemistry, 2 laboratory courses each in Organic, Inorganic and Physical Chemistry and elective courses. The syllabus lays emphasis on current developments in chemical science. Some of the unique features of the programme are special courses in Instrumentation and Computer Applications, Mathematics for Chemists, Materials Chemistry, Biological Chemistry and also project work by each student in the IV semester. The syllabus is upgraded continuously. The School also participates in the five year Integrated M.Sc. programme run by the SCIS.

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. Areas where research is being undertaken presently are mentioned above. Students admitted to the **Ph.D.** programme may also be required to “undergo some course work’ or take some remedial courses depending on their background and the demands of their research. Applications from candidates who have passed the **NET** of the **CSIR/UGC** with a **JRF** qualification may join with the interested member of the Faculty of the School at any time of the year for claiming the fellowship. However, admission will be considered as per the rules of the University four times in a year as per the approved schedule.

Financial Support

M.Sc. and Ph.D. students who do not receive any other financial support, will be provided scholarships by the University.

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 and dynamic light scattering apparatus. The NMR facility in the School consists of 200 MHz and 400 MHz spectrometers. A single crystal X-ray diffractometer facility was established in 1997; it is now supplemented with a CCD detector based diffractometer. The School also uses the facilities at the Central Instrumentation Laboratory, which includes X-band ESR spectrometer, circular dichroism spectrometer, powder X-ray diffractometer, scanning electron microscope, differential scanning calorimeter, confocal microscope and vibrating sample magnetometer. 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 Modelling, 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 are available online.

Entrance Examinations

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 carries negative marks for wrong answers.

The written test for **Ph.D.** consists of two parts, **Part I** contains objective type questions and carries 25 marks,

Part II contains short answer questions and numerical problems and carries 50 marks. **Part II** contains 30 questions (10 each from Organic, Inorganic and Physical Chemistry) at the M.Sc. level; the candidate is required to answer any 10 questions.

For admission to M.Sc. and Ph.D., the short listed candidates among those who qualify in the written test have to appear for an interview.

Faculty

Professors

Kalidas Sen, Ph.D. (IIT, Kanpur) – Density Functional Theory

Gautam R. Desiraju, Ph.D. (Illinois), F.A.Sc., F.N.A.Sc., F.N.A., F.T.W.A.S. – Structural Chemistry

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

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

M.V. Rajasekharan, Ph.D. (IIT, Madras) – Inorganic Chemistry

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

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

Ashwini Nangia, Ph.D. (Yale) – Supramolecular Chemistry, Crystal Engineering

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

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

Samudranil Pal, Ph.D. (Jadavpur) – Transition Metal Chemistry

Musti J. Swamy, Ph.D. (IISc, Bangalore) F.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)

Readers

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

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

Tushar Jana, Ph.D. (Jadavpur) – Polymer Chemistry and Materials Science, Polymer Gels, Sensor Materials, Fuel Cell

D.B. Ramachary, Ph.D. (IISc, Bangalore) – Synthetic Organic Chemistry, Engineering Asymmetric Organocatalysis and Theoretical Aspects of Organocatalysis

R. Nagarajan, Ph.D. (Madras) – Organic Chemistry: Synthesis of Heterocycles and Catalytic Organic reactions

Lecturers

Pradeepta Kumar Panda, Ph.D. (IISc, Bangalore) – Bio-Inorganic, Bio organic and supramolecular Chemistry: Synthesis and Exploration of Chemical, Biological and Material 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 and Polymers

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

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

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

R. Chandrasekhar, Ph.D. (Max-Planck) - Physical-Organic, Physical-Inorganic and Nano-Materials

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 the following four departments:

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

Each of the four departments offers M.Sc. and Ph.D. programmes of study. M.Sc Biotechnology and M.Tech Bioinformatics courses from the Department of Biotechnology are organised with the participation of faculty of the departments of the School as well as the Schools of Mathematics and Computer / Information Sciences & Chemistry. Under Distance Education Programme, the School is participating in two P.G. Diplomas: one in “Environmental Management” and the other in “Medicinal Botany”.

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

A UoH-DBT Centre for Research and Education in Biology and Biotechnology (CREBB) has been established in the School of Life Sciences at a total cost of Rs.2656.80 lakhs. The Department of Biotechnology (CREBB) has contributed Rs.1856.80 lakhs towards this project. This Centre (CREBB) would be the nucleus of research and teaching in diverse areas of Biology and Biotechnology. The activities of this centre include teaching and training programmes, while creating state-of-the-art research facilities in the area of Biology and Biotechnology. The innovative component of this centre is to provide training opportunities in Biology and Biotechnology to not only Ph.D students of our University but also to the teachers and students working at state-of-the-art labs for

teaching M.Sc. and M.Tech. programmes, with the final goal of increasing significantly the number of M.Sc., Ph.D. and post-docs over the period of 5 years. In parallel with the initiative of DBT to establish UoH-DBT Centre, the School of Life Sciences has also set up ‘state of the art’ facilities for Proteomics and Functional Genomics including Microarray facilities. The cost of the equipment was Rs.6.00 crores for this facility. This facility complements very well with the activities of the UoH-DBT Centre.

Adjunct Professors

The following eminent scientists are appointed as Adjunct Professors in the School of Life Sciences and their specializations are indicated in parentheses :

1. Prof. S.E. Hasnain (Biochemistry)
2. Prof. E.A. Siddiq (Plant Sciences)
3. Prof. Rajender Kumar (Biochemistry)

Special Assistance from U.G.C. and DST : The School has been a recipient of UGC Special Assistance Programme since 1990. The Phase III of UGC-Special Assistance (DSA) operated during 2002-2007, with the following thrust areas for teaching and research :

1. Animal Biotechnology
2. Plant Biotechnology, and
3. Molecular Biology & Neurochemistry

The School was granted assistance also under COSIST program of UGC for a duration of five years from 1999. Three Departments of the School viz., Biochemistry, Plant Sciences & Animal Sciences are supported by Department of Science and Technology under FIST programme.

Prof. A.S. Raghavendra, Dept. of Plant Sciences is the Dean of the School.

Department of Biochemistry

The Department of Biochemistry offers highly competitive and popular courses in Biochemistry and Medical Biotechnology. The importance of biochemical basis of the living organisms is emphasized, supported by meticulous training in experimental skills to enable the students to pursue research in frontier areas of Biology. At present, the Department carries out research in the areas of Molecular Biology, Neurobiology, Immunology, Molecular Biophysics, Bioenergetics, Protein Biochemistry, Molecular virology, Molecular genetics and Drug design.

Programmes of Study

1.M.Sc. Biochemistry: The course is a four semester programme that is evaluated based on credit system. A total of 12 core courses, four elective courses, four practical courses and a project have to be completed successfully by the students in the four semesters.

The core courses offered by the department during the four semesters are: Intermediary Metabolism-1, Biophysical Chemistry, Computer Applications in Biology, Genetics (I semester), Intermediary Metabolism II, Enzymology, Molecular Biology I, structural biology (II Semester), Basic Immunology, Molecular Biology II, Bioenergetics and Biomembranes (III Semester), Nutritional and Clinical Biochemistry (IV Semester). In addition, the Department also offers elective courses such as Endocrine biochemistry, Biostatistics, Neurochemistry, Molecular virology, Genomics and Proteomics (III semester) and Immunochemistry, Protein Phosphorylation and Signal transduction, Microbiology, Genetic disorders, Protein-DNA interactions (IV Semester). In the first three semesters the students have a lab course on Biochemical techniques and in the fourth semester they undertake a project work under the supervision of a faculty member.

2. M.Tech. Medical Biotechnology: The main emphasis of the course is to impart advanced training to students with Postgraduate qualification in Biochemistry, Biotechnology and Chemistry as well as to Graduates in Medicine, Pharmacy and Biomedical Engineering / Biotechnology to acquire requisite skills for the development of novel diagnostic methodologies using molecular biological and immunological tools. The course is a 4 semester programme consisting of core and elective courses in I, II and III semesters. The student will carry out an application-oriented project supplemented by seminars during the III and IV semesters.

The core courses during I, II and III semesters are: Genetic and metabolic diseases, Nucleic acid technology, Cancer and infectious diseases, Protein technology, Cell culture technology and Molecular diagnostics. Some of the electives offered are: Biomedical instrumentation, Immunotechnology, In vitro drug screening, Pre-clinical toxicology etc.

Candidates having GATE qualification may be considered for a scholarship subject to the approval and sanction by the AICTE/UGC.

3. Ph.D. Biochemistry : The students carry out their work under the supervision of a faculty member and are periodically advised by the doctoral committee. They actively participate in journal clubs, research work seminars and submit monthly progress reports of research work. The scholar presents the research work in a comprehensive seminar before the submission of the thesis.

Entrance Examination

4. M.Sc Biochemistry entrance examination question paper consists of 100 objective type questions of B.Sc standard. The questions are drawn from Chemistry (40%), Biology (30%), Physics and Mathematics (30%).

5. M.Tech. Medical Biotechnology entrance examination question paper consists of 75 objective

type questions (75 marks) in Biochemistry, Molecular Biology, Immunology, Genetics, Medicinal Chemistry, Microbiology etc. Based on the order of merit in the written examination, the candidates will be called for an interview (25 marks).

6. Sponsored Candidates: Candidates with requisite qualifications and having a minimum one year of work experience in Government/Government recognized organizations (Universities / Colleges / Hospitals) engaged in teaching and research or R & D centers 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 application, a written statement from the sponsoring organization to pay a sum of Rs.70,000/- (Seventy thousand only) towards the development fund of the Department. In addition, the candidates are also required to pay the tuition fee and other fees as prescribed for other students.

7. Ph.D. in Biochemistry admission, will be based on an entrance examination and interview conducted by the Department. Candidates who are qualified in the NET examination for JRF conducted by CSIR/UGC or ICMR are entitled for a fellowship. The written examination is optional for NET (CSIR/UGC) qualified for JRFs. However, they are required to appear for the interview. The question paper of the entrance examination will carry 75 objective type questions (75 marks) of M.Sc standard drawn from the areas of Biochemistry and Molecular Biology. Based on the order of merit in the written examination, the candidates will be called for an interview (25 marks).

Research Achievements

The Departmental faculty is engaged in highly active and productive research in several frontier areas of modern biology. The faculty conducts their research

with support from several National and International funding agencies in the form of research grants. In recognition of the research accomplishments, the UGC has sanctioned a Special Assistance Programme (DSA Phase III 2002-2007) and COSIST in the areas of Molecular Biology and Neurochemistry. The Department has also been supported by a grant from the Department of Science and Technology for infrastructure facilities under the 'FIST' programme.

Infrastructural facilities

The Department has tissue culture facilities, several modern equipment such as ultra centrifuges, high speed centrifuges, spectrophotometers, spectrofluorimeters, HPLC, Liquid scintillation counter, PCR machines, gel documentation system, phosphorimager, etc. The faculty of the department have been continuously upgrading their individual laboratory facilities by obtaining the latest equipment required for their independent research work.

Faculty

Professors

T.Suryanarayana, Ph.D. (BHU) - Molecular biology: Ribosome structure and function, Structural and functional aspects of DNA protein interactions (**SAP Coordinator**).

C.K.Mitra, Ph.D. (TIFR) - Molecular biophysics, Electrochemistry of immobilized enzymes (biosensors), Studies on protein sequences (bioinformatics) and Nanobiotechnology.

M.Ramanadham, Ph.D. (Osmania) - Immunology and Cell biology: Mechanism of B-lymphocyte activation, Intestinal immunity and in vitro immunization techniques, Studies on multiple myeloma (**Head of the Department and Coordinator, M.Tech Medical Biotechnology programme and the school of Medical Sciences**).

K.V.A.Ramaiah, Ph.D. (JNU). FNASc., FAS - AP - Gene expression, protein synthesis regulation in eukaryotes, protein phosphorylation, ER stress and Apoptosis. **(School Coordinator, Systems Biology, SCIS).**

O.H.Setty, Ph.D. (Delhi) - Bioenergetics, Clinical Biochemistry, Role of free radicals in diseases and antioxidant properties of Plant extracts.

N.Siva Kumar, Ph.D. (Mysore) FAS-AP - Protein biochemistry, Cell and Molecular Biology, Glycobiology, Structure function relationships of plant, animal lectins and Evolution of mannose 6-phosphate receptor proteins, lysosomal enzyme targeting receptors. **(Departmental Coordinator, Systems Biology, SCIS)**

Readers

Mrinal Kanti Bhattacharyya, Ph.D. (TIFR) – DNA repair, Telomere biology, Parasite functional genomics

Naresh Babu V Sepuri, Ph.D. (UoH) – Mitochondrial Biogenesis and Disease, Protein and tRNA import into mitochondria, Mitochondrial mediated oxidative stress.

Lecturers

Krishnaveni Mishra, Ph.D. (JNU) – Functional organization of the eukaryotic nucleus, Telomere biology, Gene silencing.

S. Rajagopal, Ph.D. (SVU) – Structural biology, Protein biochemistry, Proteomics, Site directed mutagenesis.

Sharmishta Banerjee, Ph.D. (UoH) – Enzymology, Prokaryotic transcription, Cancer metastasis and signal transduction.

Brahmanandam Manavathi, Ph.D. (SKU) – Signal transduction, Molecular and Cellular Oncology.

Joint Faculty

Professor

Anand K. Kondapi, Ph.D. (Andhra) - Molecular biology, drug development and delivery, Functional characterization of DNA Topoisomerases in oncogenesis, HIV infection, neurotoxicity and Brain aging. **(Department of Biotechnology).**

Department of Plant Sciences

The Department has been supported under UGC Special Assistance Programme and the DST-Funds for Infrastructure in Science and Technology (FIST) Level-II and is marching towards achieving the status of Centre for Advanced Studies. The foundations for the rapid growth of the Department in the last thirteen 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.

All national and international funding agencies like DBT, MNES, CSIR, DST, INSA, UGC, NATP-ICAR, DAE, DOD, IAR, MoEF, 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, Molecular Breeding, TAG, MGG, Phytopathology, Molecular Plant Microbe Interactions, 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.

The core courses offered during the four semesters are: Cell and Molecular Biology, Genetics, Computer applications in biology, Microbiology (**I Semester**); Plant Physiology, Environmental Biotechnology, Molecular Biology and Genetic Engineering (**II Semester**); Genomics and Proteomics, Plant Developmental Biology, Plant Biotechnology (**III Semester**). In the first three semesters the students have a lab course and in the fourth semester they undertake a project work under the supervision of a faculty member.

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.

The core courses offered during the four semesters are: Cell and Molecular Biology, Genetics, Computer applications in biology, Microbiology (**I Semester**); Microbial Physiology & Biochemistry, Infection & Immunity, Molecular Biology and Genetic Engineering (**II Semester**); Genomics and Proteomics, Heterologous Expression and Downstream Processing, Microbial Metabolomics (**III Semester**). In the first three semesters the students have a lab course and in the fourth semester they undertake a project work under the supervision of a faculty member.

Note: An effort is being made to evolve common minimum course contents for all the M.Sc. programmes of the School of Life Sciences.

3. Ph.D. Plant Sciences; The Ph.D programme requires a minimum of 2 years residence from the date of confirmation of admission. At the end of I semester, the Ph.D. students would take examination for the three courses (Scientific Writing, Research Methodology and Bio-Analytical Techniques) and a comprehensive viva will be held at the end of II semester. 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 admission 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.

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 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

A. Ramachandra Reddy, Ph.D. (Osmania) FASc. - Genetics, Plant Molecular Biology, Genomics (on EOL as Vice-Chancellor, Yogi Vemana University, Kadapa)

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 and Plant Molecular Physiology, Photosynthesis, Signal Transduction, Medicinal Plants (Dean of the School)

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 – Plant Molecular Biology, Plant Genetic Engineering

Appa Rao Podile, Ph.D. (SPU), FNASc, FAP-AS, FPSI–Molecular Plant Microbe Interactions, Microbial Inoculants, Plant Disease Resistance (**Head of the Department**)

Attipalli R. Reddy, Ph.D. (SVU), FAP-AS – Photosynthesis, Oxidative Stress in Crop Plants, Biofuels

Readers

Kottapalli Seshagirao, M. Phil. Ph.D.(UH) – Protein Biochemistry, Glycobiology, Medicinal Botany, Plant Systematics, Diversity and Conservation, Bioenergy Resource, Global Biodiversity Informatics

Ch. Venkata Ramana, Ph.D. (Osmania) – Diversity and Metabolomics of Anoxygenic Phototrophic Bacteria

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

T. Sarada Devi, Ph.D. (UH) – Phytotherapy of Vascular Inflammation

K. Gopinath, Ph.D. (SVU) – Plant Molecular Virology, Cell Biology, RNA Replication/Trafficking & Viral Vectors (Temporary)

Lecturers

K.P.M.S.V. Padmasree, Ph.D. (UH) - Plant Physiology, Biochemistry and Molecular Biology

J.S.S. Prakash, Ph.D. (Hamdard University) – Molecular Biology of Cyanobacteria, Functional Genomics, Molecular Mechanisms of Abiotic Stress Response

Irfan A. Ghazi, Ph.D. (Hamdard University) – Molecular Biology, Functional Genomics, Microbiological & Immunological aspects of Infectious Diseases

Y. Sreelakshmi, Ph.D. (UH) – Functional Genomics & Proteomics of Tomato Fruit Ripening

Department of Animal Sciences

The Department of Animal Sciences came into existence in March 1993 as a part of academic and administrative restructuring of the School of Life Sciences. The department offers M.Sc. course in Animal Biotechnology and possesses reputed faculty and strong infrastructure to conduct research and to train talented young brains in almost all frontier areas of Biotechnology.

Currently 60 students are enrolled for Ph.D. programme and are working in the research programmes funded by various National (DST, DBT, DRDO, CSIR, ICMR, UGC) and International (The A.P. – Netherlands Biotechnology Programme) Funding agencies and Biotech Industries (Dabur India Pvt. Ltd., ABL Biotechnologies Ltd., NATCO). In recognition of the department's contribution to the biotechnology research the premier biotech industry, the Shantha Biotechnics, Hyderabad offers every year Shantha Excellence Fellowships to 50% of students enrolled in M.Sc., Animal Biotechnology course. Besides contributing for the Department's teaching, the faculty joins with sister departments to contribute in running M.Sc. Biotechnology course sponsored by the Department of Biotechnology, Govt. of India. In recognition of its contributions the Department of Animal Sciences is also supported by SAP, COSIST and FIST programmes sponsored by the premier funding agencies like UGC and DST.

Programmes of Study

The Department offers a four-semester **M.Sc.** course and **Ph.D.** program.

The **M.Sc. Animal Biotechnology** course has been developed with emphasis on some traditional and many modern and innovative courses. The students are offered common courses in the first semester such as Genetics, Cell Biology, Biochemistry-I and Microbiology along with students admitted to Post-graduate programs of the School. In the second semester, Biochemistry-II, Immunology, Developmental Biology and Molecular Biology-I are offered. The contents of the third and fourth semesters include Molecular Biology and Genetic Engineering; Vaccinology, Cellular & Molecular Neurochemistry, Stem Cell Technology & Tissue Engineering; Cancer Biology, Animal Reproduction, Breeding & Transgenic Technology; and *In vitro* Expression and Downstream Processing Technology. While students are in their third semester they will be allotted various labs to undertake research work on a well designed project. In addition to this in house training, the students will have an option to choose electives either from other departments of the School of Life Sciences or from other Schools.

Doctoral Programme:

The **Ph.D.** programme requires a minimum period of 2 years from the date of confirmation of admission. The requirements for Ph.D. include a thesis submitted on an approved topic under faculty guidance, and an oral examination in defense of the thesis. Normally, a Ph.D student spends about four years to complete the thesis.

Entrance examination

Admission to **M.Sc.** will be given on the basis of performance in entrance examination.

The question paper for entrance examination for M.Sc. admission will consist of 100 questions of B.Sc.

standard. The candidate has to answer all 100 questions. Broadly the paper consists of questions in Zoology, Botany, Chemistry, Biochemistry, Microbiology, Biotechnology and Genetics. Detailed specific instructions will be given in the question paper.

Admissions into **Ph.D.** program will be given on the basis of performance of the candidate in the written test followed by an interview. Candidates who have qualified for CSIR-UGC JRF/ICMR-JRF/DBT-JRF are exempted from written test. The entrance examination will consist of 75 objective questions of M.Sc. standard with emphasis in animal biotechnology, cancer biology, immunology, molecular biology, biochemistry, physiology, parasitology, neurobiology, cell biology and the candidate has to answer all questions. Students are advised to see detailed instructions in the question paper.

Infrastructural facilities

The Department is constantly improving its teaching and research facilities through grants received from various funding agencies. The students have access to the instrumentation facility of the School which consists of refrigerated centrifuges, ultra centrifuges, densitometer scanner, photodyne apparatus, spectrophotometers, gel documentation system, cold rooms, ice making machines, phosphor-imager, HPLC, CO₂ incubators, PCR machine, Liquid scintillation counters, gamma counters, oxygraph, bioreactors, French press, lyophilisers etc. Recently, the School of Life Sciences has acquired Proteomics and DNA Microarray workstation, which includes TwoD electrophoresis set up, MALDI TOF/TOF and Q-TOF facility, Real Time PCR, Chip makers, Spot picker, scanners etc. In addition, the research student can utilize the Central Instrumentation facility of the University which contains protein sequencer, amino acid analyzer, scanning electron microscope, SPR spectrometer, DNA synthesizer etc. Further, various individual research laboratories of faculty members

have equipment depending upon their needs of research work. In recognition of the research accomplishments, UGC has sanctioned grants under Special Assistance Programme for conducting research work in the area of animal physiology and reproductive biology. Under FIST program, Department of Science and Technology provided a Special grant for acquiring Flow Cytometer.

Faculty

Professors

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

P Reddanna, Ph.D. (SVU) - Biochemical toxicology and drug discovery: Inflammation, allergy, asthma and Cancer.

S. Dayananda, Ph.D. (SVU) – Environmental Biotechnology : Catabolomics, Metabolic Engineering, Biotransformation and Biodegradation. **(Head of the Department)**

Readers

Manjula Sritharan, Ph.D. (Hull, U.K) – Infectious diseases: Host-pathogen interactions with reference to iron acquisition in pathogenic mycobacteria and *Leptospira* spp. and development of diagnostics for tuberculosis and leptospirosis.

Balasubramanian Senthilkumaran, Ph.D. (BHU) – Fish Molecular Endocrinology, Molecular Reproductive Biology, Neuroendocrinology.

Lecturer (senior scale)

Anita Jagota, Ph.D. (JNU) – Neurobiology, Cellular and Molecular mechanisms in regulation of Clock, Brain Aging, The Cellular and Molecular Mechanisms involved in Neuronal remodeling underlying postembryonic Neural development.

Lecturers

Abira Sarkar, Ph.D. (CDFD) – Immunology, Cell Signaling, Host-pathogen interactions with respect to noscomial pathogens such as *Staphylococci*. (on lien)

Suresh Yenugu, Ph.D. (O.U.) – Reproductive immunology and toxicity, polyunsaturated fatty acids and prostaglandins in diabetes mellitus.

Kota Arun Kumar, Ph.D. (H.C.U.) – Biology of Malaria Sporozoites and Liver stages, Mechanism of Immunity to Malaria Liver stage parasites, Analysis of Malaria Sporozoite and Liver stage antigens.

Joint Faculty

Professor

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

Department of Biotechnology

The Department of Biotechnology offers application oriented and most-sought after courses in Biotechnology and Bioinformatics. Innovation based training will be imparted to the students with a special emphasis on understating the basic concepts of the biological processes in pursuing research in frontier areas of biotechnology and bioinformatics. At present, the Department carries research in the areas of Biophysics, Molecular Therapeutics, biology of HIV and Cancer and Neurochemistry, Neurodegenerative diseases and stem cell therapy. The thrust area of the Department is “Molecular Therapeutics for infectious and neuro degenerative diseases”.

The programmes of the Department are supported by special grants from Department of Biotechnology towards M.Sc. Biotechnology 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. Biospectrum India ranked M.Sc Biotech Programme of University of Hyderabad as number one in 2004 and Two in 2005 & 2006.

This course is a four semester program with credit system of evaluation. The courses offered by the department during the four semesters are: Cell and Molecular Biology, Macromolecular Structure and Function; Genetics, Computer Application in Biology; *In vitro* Expression and Downstream processing of the recombinant proteins; Enzymology and Metabolic pathways; Molecular Biology and Genetic Engineering; Immunology; Genomics and Proteomics; Plant Biotechnology; Animal and Medical Biotechnology. In addition to the above the students are allowed to choose optional courses of their interest offered by the different Departments as well as other Schools in the third and fourth Semesters. Students undertake one year project work (part of third & complete fourth semesters) in one of the areas of the research in the School of Life Sciences.

IPR and Entrepreneurship skills: Students are exposed to IPR and entrepreneurial skills including (a) Patent writing, (b) Business market planning, (c) Writing and presentation skills and (d) Theme building.

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-the-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 such as R-package and SAS. The first batch of students obtained attractive placements from reputed software and bioinformatics companies.

The course is offered jointly by three Schools of the University viz., School of Life Sciences, School of Chemistry and School of Mathematics & Computer Information Sciences and **the Centre for DNA Fingerprinting and Diagnostics (CDFD), Hyderabad.**

Course Coordinating Committee:

Dr. Sushma M. Bendre, - Outliers and Regression Diagnostics (Department of Mathematics and Statistics, MCIS).

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

Dr. Rajeev Wankar – Parallel & Grid Computing. (Department of Computer and Information Sciences, MCIS).

The scientists of CDFD participating in the course:

Dr. Shekhar Mande, Structural Biology

Dr. Akash Ranjan, Computational and Functional Genomics

Dr. H. A. Nagarajaram, Computational Biology

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 Second semester, 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 at CDFD.

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

3. Ph.D Biotechnology: The students carry out their work under the supervision of the faculty member and are periodically advised by the doctoral committee. They actively participate in Journal clubs, research work presentation and submit monthly progress report of the research work. The research students have to present their research work in a comprehensive seminar before submission of the thesis.

Entrance Examination

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

5. M. Tech. Bioinformatics: The admission is based on an entrance examination and interview. Based on the order of merit in the written examination, the candidates will be called for interview (25 marks). The entrance examination paper consists of 75 objective questions out of which 30 questions would be from Biological Sciences and 15 questions each from Physical Sciences (Physics and Chemistry), Mathematical Sciences (Mathematics and Statistics) and Computer Sciences. GATE qualified candidates may be considered for a scholarship subject to approval by AICTE / UGC.

6. Ph.D. Biotechnology: Admission is based on an entrance examination and interview conducted by the Department. Candidates who are qualified in the NET

examination for JRF 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).

7. 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.

8. Infrastructure facility

The Department has HIV culture facility, neuronal and neuroglial culture facility, Stem cell culture facility. Further, several modern 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 well equipped facility that is used by the students. Students also have access to high performance computation facility and Centre for Modelling Simulation and Design for regular training as well as project works. Software training given to students in the lab include AccelRys, MAT Lab, SYBYL, SAS genomics, Gold etc. In addition, the students have access to the computation facilities at the Centre for DNA Finger printing 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 (Professor – ILS, Joint Faculty in School of Chemistry).

Anand K. Kondapi, Ph.D. (Andhra) Molecular Therapeutics, Functional characterization of DNA Topoisomerases in oncogenesis, HIV infection, neurotoxicity and Brain aging. (Professor-ILS; Joint faculty in Dept. of Biochemistry, Coordinator, M.Sc. Biotechnology and M.Tech., Bioinformatics Programmes) **(Head of the Department)**.

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

Joint Faculty

Dr. Mrinal Kanti Bhattacharyya, Dr. Krishnaveni Mishra, Dr. S. Rajagopal, Dr. Sharmistha Banerjee (*Department of Biochemistry*)

Prof. M. N. V. Prasad, Prof. P. B. Kirti, Prof. P. Appa Rao, Prof. A. R. Reddy, Dr. K. Seshagiri Rao, Dr. Ch. Venkata Ramana, Dr. G. Padmaja, Dr. J. S. S. Prakash (*Department of Plant Sciences*)

Prof. Aparna Datta Gupta, Prof. P. Reddanna, Prof. S. Dayanand, Dr. Manjula Sritharan, Dr. B. Senthilkumaran, Dr. Anita Jagota (*Department of Animal Sciences*)

Prof. M. Durga Prasad, Prof. M. J. Swamy and Dr. Lalitha Guruprasad (*School of Chemistry*)

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. English Language Teaching Cell
10. Centre for the Study of Foreign Languages

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, Language Studies and Pedagogy.

Programmes of Study

The **M.A.** programme extends over four semesters. It is a 70-credit programme, with 50 credits for mandatory courses and 20 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 like Stylistics, Sociolinguistics and English Language Teaching. Whenever possible, instruction is provided in small classes through discussion and individual work.

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

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

The **Ph.D.** programme normally extends over a minimum period of two years from the date of admission. The programme comprises mandatory

course work for 6 credits in the first semester and a 4 credit course each in the second and third semesters, geared to individual requirements. Students are required to write a dissertation on an approved topic under faculty guidance and take an oral examination.

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

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

Entrance examination

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

Section I	Language (Objective)	25 Marks
Section II	Essay on general topics	40 Marks
Section III	Poetry Comprehension	35 Marks

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

Section I	Language (Objective)	25 Marks
Section II	Essay *	25 Marks
Section III	Poetry Comprehension*	25 Marks

Ph.D. entrance examination (written) comprises 3 (three) sections:

Section I	A Poem for analysis*	25 Marks
Section II	Essay *	35 Marks
Section III	Essay Question (s) testing language Skills and research aptitude**	15 Marks

* There are two sub-sections in these categories broadly representing the areas of Literature and Language. The Language portion consists of English Language/Literature Teaching and English Linguistics. Candidates are expected to write their dissertations only in the broad area in which they choose to write their answers, i.e., Literature or Language.

** This section may also be subdivided into language and literature. Candidates must answer the question that relates to their broad area of research.

In addition, there is an Oral Test worth 25% marks for short listed candidates at both **M.Phil.** and **Ph.D.** levels.

Infrastructural facilities

The Department is supported by a **UGC-DRS (SAP)** programme which is now in its Third Phase. The UGC has also sanctioned the programme, "Assistance for Strengthening of Infrastructure for Humanities and Social Sciences (ASIHSS)" for five years, beginning April 1, 2006. 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 P.Cs 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, and scholarships and prizes like the Late Mrs. Rita Nair Award, the Dorothy Deering Prize, the Chanduri Family Scholarship/Library Fund and the Linda Dittmar Award are given annually.

Special Features

Language Intensive Study Programme (LISP) 2-credit, compulsory course for Semester I M.A. students to enable them to enhance their English language skills.

Faculty

Professors

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

K. Narayana Chandran, Ph.D. (IIT-Bombay); American Literature, Contemporary Poetry and Theory, English - History and Pedagogy of the Discipline in India; Reading Theories and Translation; Intertextuality and Intergenres. **(Coordinator, UGC-DRS-SAP).**

Alladi Uma, Ph.D. (SUNY, Buffalo); Women's Writing, Indian Writing in English, African American Literature and Translation.

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, Culture Studies. **(Head of the Department).**

Pingali Sailaja, Ph.D. (CIEFL, Hyderabad); General Linguistics, Phonetics, Generative Phonology and Morphology, English Language Teaching, English in India.

Syed Mujeebuddin, Ph.D. (Kent, U.K.); Commonwealth and Postcolonial Literature, Indian Fiction in English, Shakespeare Studies, Victorian and Twentieth Century English Literature.

M. Sridhar, Ph.D. (Hyderabad); Literary Criticism and Theory, Cultural Studies, Comparative Studies and Translation. **(Co-ordinator, ELTC).**

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

Readers

K. Suneetha Rani, Ph.D. (Hyderabad); Commonwealth Literature, Women's Studies, Comparative Literature, Translation.

Afeefa Banu, PGDTE, M.Litt., Ph.D. (CIEFL, Hyderabad); General Linguistics, Phonetics, Sociolinguistics, Stylistics, Literary Theory, Gender Studies, African Literature, Modern British Theatre, English Linguistics and ELT.

Lecturers

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.

Sunita Mishra, Ph.D. (CIEFL, Hyderabad); English Language and Literature Teaching, Sociolinguistics, Stylistics, Gender Studies, Literary Criticism.

Anna Kurian James, Ph.D. (CIEFL, Hyderabad); Children's Literature, Popular Culture, Indian Writing in English

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

Sindhu Menon, Ph.D. (Hyderabad); Post Colonial Theory, Romantic Literature, Children's Literature, Shakespeare Studies, Indo-British Literary and Cultural Transactions, Early Indian Literature in Translation with focus on drama and poetry, Literary Criticism and Theory.

Kolluri Lavanya, Ph.D. (AU); Language Studies, Indian Writing in English.

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: Indian and Western: (2) Cognitive Science (including Logic and Philosophy of Mind). The Department has also received grants under ASIHSS for a period of five years since April 2006 to March 2011. The thrust areas under this scheme are (1) Philosophy of Science and (2) Moral and Political Philosophy – both from Indian and Western Perspectives. In addition to these, the Department also carries on research in Philosophy of Wittgenstein, Contemporary Western Philosophy, and systems of Indian Philosophy like Nyaya and Buddhism.

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 Indian Philosophy, Political Philosophy, Philosophy of Science, Philosophy of Language, Wittgenstein, Nyaya and Buddhism etc.

M.Phil. Programme

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

encouraged, where two or more departments/schools are involved.

Ph.D. Programme

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

Entrance examination

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

Infrastructural facilities

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

Faculty

Professors

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

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

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

A. Raghurama Raju, Ph.D. (IIT, Kanpur) - Social and Political Philosophy, Contemporary Indian Philosophy (**Head of the Department**)

Readers

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

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

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

Lecturers

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

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 literary 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.

Programmes of study

The Department offers M.A., M.Phil. and Ph.D. programmes in Hindi and an M.A. course in Functional Hindi (Translation).

The **M.A. (Hindi)** 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.

The **M.A. Functional Hindi (Translation)** extends over four semesters of four courses each. The course is designed to facilitate the use of Hindi in its functional applications such as the use of Hindi for official purposes, in advertisements, mass media, banking and literature etc. Special emphasis will be given to translation theory and practice.

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 theses after taking the prescribed courses. No student is permitted to submit his 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 an approved guide and on an approved topic. There may be written and oral examinations on the course work and the dissertation. *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.*

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. Dakshini Hindi - Language and Literature
6. Functional Hindi and Translation

Entrance examination

The entrance examination for M.A./M.Phil/Ph.D. consists of two parts - Part 'A' and Part 'B'. Part 'A' consists of objective type questions and Part 'B' consists of short and essay type questions.

The written test for admission to **M.A. Hindi** will include questions on the history of Hindi Literature, works of prominent personalities of Hindi Literature (Bhakti Kal to Adhunik Kal), essays on Social, Cultural, Political, Scientific and academic topics, comprehension and explanation of a piece of poem written by any modern poet of Hindi and questions on general grammar of Hindi.

The written test for admission to **M.A. in Functional Hindi (Translation)** will have questions on the history of Hindi language and literature and use of Hindi for various formal purposes. Apart from essay type and short note answer type questions, the question paper will also include: (a) a passage in Hindi which will have to be translated into English and (b) a passage in English that will have to be translated into Hindi.

The written test for admission to **M.Phil.** programme in Hindi will contain questions (M.A. standard) on the History of Hindi literature, History of Hindi language and General Linguistics, questions on the proposed area of research and objective type questions on the History of 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 consists of the following:

- 1) One Essay type question on literary and linguistic topics of M.A. standard. Areas of questions will be Medieval poetry, Modern poetry, Drama and Fiction, Linguistics, Modern Criticism
- 2) One question on Research Methodology and related topics

- 3) One question on the proposed research project
- 4) Translation from Sanskrit to Hindi and English to Hindi

Faculty

Professors

Shashi Mudiraj, Ph.D. (Osmania), D.Litt. (Lucknow)- Modern literature, Socio psychological approach to Literature, Comparative studies, Functional Hindi and Translation (**Head of the Department**)

Noorjahan Begum, M.A. Hindi (Andhra), M.A.Sanskrit (Gorakhpur), Ph.D. (Andhra), D.Litt. (DBHPS) - Bhakti Literature, Mythological Approach to Modern Poetry, Forms of Poetry, Aesthetical aspects of Literature, Dakshni Literature and Translation.

Subhas Chandra Kumar, Ph.D. (Bhagalpur) - Bhakti Movement and Bhakti Literature, Sociological approach to Literature, Comparative Literature, Functional Hindi, Translation, Modern Literary 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 and Translation and Dalit Literature. (on deputation to ICCR upto 06-09-09)

Dr. Ravi Ranjan, Ph.D. (Hyderabad) - Bhakti Poetry, Modern Literature, Sociology of Literature & Literary Criticism. (on deputation to ICCR upto 31-07-08)

Readers

R.S. Sarraju, Ph.D. - (Andhra) - Functional Hindi and Translation Studies, Comparative Literature (Fiction), Sociology of Literature (on deputation to ICCR upto 04-10-08)

Sachidanand Chaturvedi, M.A. (Sanskrit), M.A. (Hindi), B.Ed., Ph.D (Kanpur), Ph.D. (Manipur)-

Comparative Sanskrit, Hindi Poetics, General Linguistics, Modern Hindi Prose (Essay).

Alok Pandey, Ph.D. (JNU) – Bhakti Literature, Modern Literature, Literary Criticism, Sociological Approach to Literature, Journalism, Hindi cinema, Cultural Studies, Interdisciplinary Studies.

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

Lecturers

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

Bhim Singh, M.Phil. (Delhi) – Modern Literature, Folk Literature (Katha – sahitya).

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

Department of Telugu

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

Programmes of study

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

The **M.A.** programme in Telugu is of four semester duration with all the important areas of study. There

are 16 core courses with 52 credits, and a wide range of 21 optional courses with 3 credits each spread over four semesters. The students are required to study four core courses and choose atleast two optional courses in each semester. Thus the students of M.A. Programme have to earn a minimum of 76 credits in order to get the Degree. The courses are designed with an emphasis on the all round developments 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.

The **Ph.D.** programme is entirely a research programme oriented towards studies in classical and modern Telugu literature, comparative literature and culture, history, literary movements and Language studies. The Ph.D. Programme will normally extend over a minimum of two years from the date of confirmation of admission. The nature of the programme is individually designed for each candidate but invariably includes a thesis on the approved topic under faculty guidance.

Entrance examination

I. The **Entrance Examination paper for M.A.** consists of all objective type questions for 100 marks to be answered in OMR Sheet. It will consist of objective type questions at Degree level in the areas of classical and modern literary works, genres, authors, quotations, grammar, chandas, alankaras, Andhra Culture, history of literature, literary movements and history of Telugu language, etc.

II. The **M.Phil Entrance Exam Paper** will consist of all objective type questions at **P.G. level** for 75 marks 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. The candidates who qualified in the written Test will have an oral test for 25 marks.

Part 'A' **Ph.D. entrance test** will consist of objective type questions based on classical and modern literature, linguistics and history of Telugu language, grammar, chandas, alankaras, literary criticism and folk literature (25 marks) and Part 'B' will consist of a) problems concerning the particular area of research like classical literature, modern literature, grammar, literary criticism, language and folk literature (20 marks); b) preparation of research design, detailed synopsis of a given topic (15 marks) and c) literary appreciation or linguistic analysis of one literary piece out of two (one from classical and one from modern age) (15 marks). The candidates who are qualified in the written Test will have an oral test for 25 marks.

Faculty

Professors

Parimi Ramanarasimham, M.A.Telugu (Andhra), M.A. Linguistics (Annamalai), Ph.D. (Mysore) - Applied Linguistics: Language teaching, Stylistics, Lexicography, Computational Linguistics and Machine Translation, Preparation of instructional materials; Educational Television (Software); Study of traditional Telugu Grammar through linguistic approach, Literary and Technical Translation.

N.S. Raju, 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), M.Phil. (HCU), Ph.D. (Osmania) - Classical and Modern Literature; Modern Poetry; Folk Literature and Cultural History of Andhras and Telugu Drama.

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

Tummala Ramakrishna, Ph.D. (S.V.University, Tirupati) - Modern Telugu Literature

Reader

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

Lecturers

Pillalamarri Ramulu (Senior Scale), M.A. (Osmania) M.Phil & Ph.D. (Hyderabad) P.G. Diploma in Sanskrit - Classical and Modern Literature, Literary Criticism and Folk Literature and Cultural Studies.

Pammi Pavan Kumar, M.A. Telugu (UH), M.A. Linguistics (Annamalai), M.Phil., Ph.D. (UH) - Classical and Modern Telugu Grammar, Natural Language Processing, Preparation of text books and Mass Media.

Darla Venkateswara Rao (Senior Scale), M.A. Telugu (UH), M.A., Sociology (B.R.A.O.U.) M.Phil & Ph.D. (Telugu) (UH) 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. (Sri Padmavati Mahila

Viswavidyalam, Tirupathi), Diploma in Tamil, P.G. Diploma in Telugu Translation (Sri Padmavati Mahila Viswavidyalayam, Tirupathi) – Applied Linguistics, Study on Telugu Language, Dialectology, Translation, Folk Literature, Lexicography, and Comparative Linguistics.

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

Dr. Addanki Srinivas (Temporary): B.A. (OL) – Nagarjuna University, M.A. (Telugu), Ph.D (Telugu) – Andhra University, M.A. (Sanskrit) – S.V. University - Telugu Language, Grammar, Prosody, Classical and Modern Literature.

UGC Research Scientist – B

G. Aruna Kumari, M.A. (Telugu), M.A. (Philosophy), (O.U.), M.A. Sanskrit (O.U.), M.Phil. and Ph.D. (U.H.)- Modern Literature, Classical Literature, Folk Literature, Sanskrit and Logic.

Department of Urdu

The Department of Urdu lays emphasis on the inter disciplinary job oriented education in Urdu. It provides an atmosphere, which helps the student in developing his intelligence, organising ability and research aptitude. The Department also aims at developing the importance of national integration through its study and research programmes. It also provides an atmosphere for the development of creative talents among students. This Department is the only Department of Urdu in India having its own fully equipped Computer Lab with 12 PCs having Multimedia kits, CD read write drives, scanners and all the PCs are connected to internet.

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, Introduction to Urdu Journalism, Writing methods for audio visual media, and a core/ compulsory course in Computers & Urdu Software practices.

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

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

Entrance examination

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

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

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

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

Faculty

Professors

Prof. Mohd. Baig Ehsas, Ph.D.(Hyderabad) – Classical & Modern Ficiton, Modern Poetry; Modern & Post Modern Criticism, Mass Media (**Head of the Department**)

Mohammed Anwaruddin, Ph.D. (Hyderabad) - Urdu Journalism, Textual Criticism, Research Methodology, Deccani Language and Literature, Urdu Criticism & Modern Literature.

Readers

K. Muzaffer Ali, Ph.D. (Madras) – Poetics; Classical urdu literature; Urdu drama; Modern poetry; Modern & post modern criticism; Generes of Urdu literature; metaphorical studies in Urdu literature & Quran.

Rizwana Moin, Ph.D. (Hyderabad) – Interdisciplinary studies, Classical & Modern Literature, Fiction.

Lecturers

Habeeb Nisar, Ph.D. (Hyderabad) – Classical Prose & Poetry, Deccani literature, Inter-disciplinary studies, Criticism, Textual Criticism, Practical Criticism, Urdu Fiction

Mohammed Naseemuddin, Ph.D. (Hyderabad) - Deccani Language & Literature, Classical Literature,

Modern Poetry, Criticism, Textual Criticism, Linguistics, Oriental Poetics. (on leave)

Arshia Jabeen, Ph.D. (Hyderabad) – Modern prose; Modern Fiction; Modern Literary criticism; Computer studies.

Abdur Rab Manzar, Ph.D. (Osmania) – Modern Criticism, Modern Prose & Poetry

Mohd. Khasif, Modern Fiction & Mass Media

Centre for Applied Linguistics and Translation Studies (CALTS)

The Centre for Applied Linguistics and Translation Studies (CALTS), created as a research centre in 1988, established 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 to 2007, 2007-2012), translation studies, lexicography, language planning and language teaching. CALTS has an ongoing project on language technology and machine translation funded by MCIT, Govt. of India. Widely perceived as one of the advanced centres of teaching and research in linguistics and translation studies in the country, the Centre, jointly with IIT Kanpur, has also created a substantial computational facility for research and training in Natural Language Processing (NLP) and Machine Translation (MT). CALTS has specialised faculty members in other areas too, which include formal syntax and semantics, historical linguistics, stylistics, psycholinguistics and sociolinguistics as well as specialists in different ancient and modern Indian and foreign languages, such as Sanskrit, Telugu, Tamil, Kannada, Malayalam, Marathi, Oriya, Bangla/Khasi and Russian.

Programmes of study

M.A. in Applied Linguistics is a four-semester programme with 4 courses per semester. The compulsory courses cover phonetics, phonology, morphology, syntax, semantics, language teaching and testing, translation studies, lexicography, computational linguistics, historical linguistics, psycholinguistics and sociolinguistics. The optionals frequently offered include: semantics, word formation, South Asia as a linguistic area, semiotics, language of mass media, language use in professions, advanced computational linguistics, Machine Translation, computational lexicography, linguistics and literature, field methods, structure of an Indian language, advanced syntax, etc.

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

This ten semester programme trains students to work as language experts in the emerging areas of computational linguistics, speech technology, Communication studies and Cognitive Science, and language therapy among others.

M.Phil. in Applied Linguistics is a two-semester programme including four papers in the 1st semester courses and a dissertation in the second semester. The course work provides exposure to research methodology & advances in applied linguistics as well as theories of translation and options such as sociolinguistics, language teaching & testing, lexicography, psycholinguistics, language planning & development, Indian grammatical tradition, translation, history & culture, structure of an Indian/foreign language, computational linguistics. The dissertation will have to be written on a topic approved by the Centre.

M.Phil. in Translation Studies is a two-semester programme including course work and a dissertation. There are four courses to enable students from literature, linguistics and other backgrounds to pursue

their interests in translation studies and begin research without getting too deeply involved in micro linguistics. The dissertation will have to be written on a topic in translation studies approved by the Centre.

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

Entrance examination

The entrance examination for M.A./M.Phil./Ph.D. consists of two parts - Part 'A' and Part 'B'. Part 'A' consists of 25 objective type questions (25 marks). Part 'B' of the entrance examination for admission to **M.A. in Applied Linguistics** will test language and general aptitude of the candidate as well as take into account proficiency in linguistics (if any). The questions will pertain to i) short notes on general/social issues related to language (25 marks); ii) English language proficiency (20 marks); iii) a short essay (10 marks) and iv) an option of either (a) translation of a short passage from English into any Indian language the candidate is comfortable with or (b) elementary problems in descriptive linguistics (20 marks).

Part 'A' of the question paper for **M.Phil. Applied Linguistics** will consist of 25 objective type questions on general linguistics (25 marks) and Part 'B' will test the following: i) simple questions on structure of Indian languages (15 marks); ii) Question on proposed topic of your research (15 marks) and iii) four short questions on different areas of Applied linguistics (Language teaching and testing, lexicography, socio linguistics and psycholinguistics, etc.) (20 marks).

Part 'A' of the question paper for **M.Phil. Translation Studies** will consist of 25 objective type questions on language and general aptitude (25 marks); and Part 'B' will consist of the following: i) translation of sentences (10 marks); ii) translation of a prose passage along with discussion of the problems involved (10+5 marks); iii) questions on structure of Indian languages (10 marks) and iv) question on proposed topic of your research (15 marks).

Part 'A' of the question paper for **Ph.D.** programme in **Applied Linguistics** will include 25 objective type questions on general linguistics (25 marks) Part 'B' will include five short questions in different areas of Applied Linguistics (25 marks), one question on methodology and/or topic suggested (10 marks) and three short notes on structure of Indian languages (15 marks).

The entrance examination for admission to the **Ph.D.** programme in **Translation Studies** will include under Part 'A', 25 objective-type questions testing language knowledge and familiarity with fields relevant to translation studies (25 marks) and Part 'B' consisting of : i) prose translation along with discussion of the problems involved (10+5 marks); ii) poetry translation (10 marks); iii) three questions on translation theory (15 marks) and iv) questions on translation of technical terms (10 marks).

Note: 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

Probal Dasgupta, Ph.D. (New York) - TG Grammar, GB Theory, Applied Linguistics, Sociolinguistics, Stylistics,

Semantics, Esperanto Studies, Comparative Literature (on EOL upto 31.7.2008)

Padmakar Dadegaonkar, Ph.D. (Osmania) - Marathi Language & Literature, Sanskrit Language & Literature, Comparative Literature, Translation Studies, Computational Linguistics, Lexicography

Panchanan Mohanty, Ph.D. (Berhampur) - Language Teaching and Testing, Psycholinguistics, Phonology, Morphology, Language Typology, Computational Linguistics, Quantitative Linguistics, Translatology.

B.R. Bapuji, Ph.D. Linguistics and Sociology (Osmania) - Social Theory, Sociology of Language, Translation Studies, Political Sociology, Gender Studies, Literacy Studies. (He has been allowed to teach in Dept. of Sociology only).

G. Uma Maheshwara Rao, Ph.D. (Osmania)-Historical Linguistics, Derivational Morphology, Non linear Phonology, Computational Linguistics (**Head of the Centre**)

Gautam Sengupta, Ph.D. (Massachusetts) - GB Theory, Philosophy of Language, Computational Linguistics & NLP, Formal Semantics

Readers

N. Krupanandam, Ph.D. (SVU) - Tamil Language and Literature, Comparative Literature, Language Teaching, Lexicography, Telugu Language and Literature, Translation Theory and Practice

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

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.

Lecturers

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

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

Somsukla Banerjee, M.Phil. (Hyderabad) – Cognitive Linguistics, Semantics, Language Deficit Studies.

Anish Koshy, M.A. (JNU), M.Phil. (Delhi) – Typology, Areal Linguistics, Phonetics, Phonology, Morphology and Syntax.

UGC Research Scientist ‘C’

J. Prabhakara Rao, Ph.D. (Moscow) - Mathematical and Computational Linguistics, Systemic Linguistics and Systemic Typology, Methodology of Linguistics, Russian Linguistics and Russian as a foreign language.

Centre for Comparative Literature

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

Programmes of Study

The **M.Phil.** is a two-semester programme, which includes course work and a dissertation. The Courses comprising of 16 credits include: (1) Comparative Theory and Research Methodology; (2) Criticism and

Contemporary Theory; and two Courses of the student’s choice from the Courses being offered by the Centre, in consultation with the faculty. The dissertation is required to be written under supervision on a topic approved by the Centre. The programme includes a written examination at the end of the first semester on the courses and submission of a dissertation for examination by the end of second semester.

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

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

Entrance examination

The entrance examination for **M.Phil./Ph.D.** consists of two parts: part ‘A’ and part ‘B’. Part ‘A’ consisting of objective type questions, will test the candidate’s knowledge of modern Indian literatures and comparative literature theory (25 marks).

Part B of the M.Phil. question paper will consist of i) short notes on Indian literatures and Western and Indian critical concepts and movements (20 marks); ii) one essay on a topic on comparative Indian literature

(15 marks) and iii) translation of a passage from English to an Indian language (15 marks). *Applicants for Ph.D. must submit along with the application (a) a brief description (about 500 words) of their proposed topic of research and (b) a copy of the M.Phil. / M.Litt. dissertation / papers (this will be returned). Applications unaccompanied by these enclosures may not be considered.*

Faculty

Professor

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

Reader

M.T. Ansari, Ph.D. (CIEFL, Hyderabad) – Cultural Studies, Critical Theory, Malayalam Literature, Minority Discourse.

Lecturers

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

J. Bheemaiah, Ph.D. (Osmania University) – Dalit Studies, Telugu Literature, Cultural Studies.

Department of Sanskrit Studies

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

Major goals of the Department are :

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

Ph.D programme

The Department offers a Ph.D programme in Sanskrit Studies with specialisation in Language Technologies. 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.

M.Phil Programme

The Department offers an M.Phil. Programme in Shabdabodha Systems and Language Technologies. This is a two semester programme. The first semester consists of course work with 4 credits course. In the Second Semester student carries out research on an approved topic under the faculty guidance leading to a dissertation.

Entrance Examination

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

Part ‘A’ consists of 25 objective type questions (25 marks). The questions will be on vyakarana/linguistics,

technical language of navya nyaaya, Computational Linguistics/ NLP 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 on vyakarana, nyaya, NLP and Computational Linguistics. The student has to attempt any 4 questions (20 marks).

The entrance examination for **M.Phil.** consists of two parts – Part A consists of 25 objective type questions (25 marks). The questions will be on vyakarana/ linguistics, and on general Sanskrit. The purpose of examination will be to test the understanding of

concepts rather than mere memorization. There will be negative marking for this part and 0.33 mark will be deducted for each wrong answer.

Part B will have two sub sections. The first section consisting of essay type questions (20 marks) and the second section consists of short answer type questions on Vyakarana (30 marks).

Faculty

Reader

Amba Kulkarni, M.Sc. (Maths), M.Tech (CSE, IIT, Kanpur) - Bridging the gap between Science and Technology in Sanskrit texts with the Modern Science and Technology, with special emphasis on Language Technology, Computer Science and Mathematics. (**Head of the Department**)

Lecturer

J.S.R.A. Prasad, Ph.D. (Rashtriya Sanskrit Vidyapeetha, Tirupati) - Sanskrit Studies, Natural Language Processing and Nyaya Vaisheshika.

SCHOOL OF SOCIAL SCIENCES

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

Departments

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

Centres

1. Centre for Regional Studies
2. Centre for Folk Culture Studies
3. Centre for the Study of Social Exclusion and Inclusive Policy
4. Centre for the Study of Indian Diaspora
5. Centre for Knowledge Culture and Innovation Studies

The University established the following interdisciplinary Centres in 2007. These Centres are located in School of Social Sciences:

- Centre for Health Psychology (2007)
- Centre for Study of Social Exclusion and Inclusive Policy (2007)
- Centre for Women's Studies (2007)
- Centre for Knowledge Culture and Innovation Studies (2007)

In July 2007 the Centre for Folk Culture Studies and Centre for Health Psychology started the following PG Diploma Courses under the UGC supported innovative programme/scheme:

- a. PG Diploma in Counseling Psychology
- b. Advanced PG Diploma in Folk Culture Studies

The Centre for Health Psychology and Centre for Women's Studies have now been made as Stand Alone Centres.

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

The School has Human Rights Programme functioning under the auspices of Political Science Department. 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 a teaching aid for students. All the Departments are equipped with e-mail and internet facilities.

From the Academic Year 2007-2008 the School of Social Sciences has started a 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 will do courses offered by various departments in the School and other Schools in the University. At the end of three years, students will branch out to Departments of Economics, History, Political Science, Sociology and Anthropology after fulfilling the credit requirement, stipulated by the Departments.

Prof. E. Haribabu, Dept. of Sociology is the Dean of the School.

Department of Economics

The Department of Economics has been offering programmes of study leading to M.A., M.Phil. and Ph.D. degrees since 1979. The Department offers well-balanced courses of study at all levels incorporating Economic Theory, Quantitative Analysis, and Indian Economic Problems.

Programmes of study

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

M.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 provision for course work, whenever necessary) 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 objective type questions. This is designed to test the candidates' general aptitude (including his/her quantitative ability) and understanding of economics at the bachelor's level.

Admission to the **M.Phil./Ph.D.** programme will be based on written and oral tests. The written test consists of objective type questions. Only those who

qualify in the written test will be called for the oral test. Those who are qualified under UGC JRF are exempted from the written test for the Ph.D programme. **Candidates for Ph.D programme are required to submit a research proposal along with applications for admission. Applications without research proposal will not be considered.**

Faculty

Professors

G. Nancharaiah, Ph.D. (Andhra) - International Economics, Agricultural Economics, Development Economics & Mathematical Economics

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

B. Kamaiah, Ph.D.(IIT,Bombay) - Monetary and Financial Economics (on sabbatical leave for one year w.e.f. 7.1.2008)

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

Readers

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

A.V. Raja, Ph.D. (IIT, Kanpur) - Micro Economic Theory, Industrial Economics, and Theory of the Firm, Law & Economics.

Naresh Kumar Sharma, Ph.D. (ISI, Delhi) – Development Economics, Agricultural Economics, Science and Technology, Gandhian Economic Thought.

G. Omkarnath, Ph.D. (JNU) – Classical Economics, Political Economy of Development and Capital Theory (on sabbatical leave from 2.1.2008 to 31.12.2008)

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

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

R V Ramana Murthy, Ph.D. (Hyderabad) – Indian Plan Models, Planning in India, Economics of Business Enterprises.

Lecturers

K. Laxminarayana, (Selection Grade) M.A. (Hyderabad) - Political Economy and Agricultural Economics (on study leave from 2.1.2008 to 30.6.2008)

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

Phanindra Goyari, (Senior Scale) M.Phil, (IGIDR, Mumbai) – 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

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

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

UGC Research Scientist 'A'

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

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 IMA 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 and 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 region; science, technology, environment and medicine, and women's studies.

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 specialise in specific areas of Indian History. Students also have an opportunity to do atleast 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. 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.Phil/Ph.D. and M.A.

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

Entrance Examination

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

Faculty

Professors

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

R.L. Hangloo, Ph.D. (JNU, Delhi) - Medieval Indian History, Medieval Indian State and History of Kashmir and Central Asia (on EOL)

Atlury Murali, Ph.D. (JNU, Delhi) - Social and Cultural History of Colonial India with special reference to Freedom Struggle, Peas-ant Movements, Women's Studies, Environmental Studies and History of Computers, Science, Technology and Medicine (**Head of the Department**)

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

Rila Mukherjee, Ph.D. (Paris) – *Economic History of South Asia, early modern European history, democracy and citizenship studies, maritime and oceanic history.*

Readers

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**).

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

Lecturers

R. Swarupa Rani, Ph.D (Hyderabad) - Social and Cultural History of Colonial India, Social and Cultural History of Deccan, Women's History and Historiography.

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.

Anindita Mukhopadhyay, Ph.D. (London) – *Modern Indian History, Modern Western Ideas and their Impact, Law and Society, Society and Culture.*

V. Rajagopal, Ph.D. (Wisconsin) - Modern Indian History, Social History and History of South India.

Rakesh Pandey, Ph.D. (London) – Cultural and Intellectual History of Modern India, Theories and Methods in History and Social and Cultural Theories

Department of Political Science

The Department of Political Science currently has **Special Assistance Programme**, supported by the U.G.C., in International Relations and Political Theory. The Human Rights programme and the North East India programme are supported by the UPE project. The Department offers courses leading to M.A., M.Phil., and Ph.D. degrees. The Department has a faculty and student exchange programme with the Uppsala University, Sweden.

Programmes of study

The **M.A.** programme in Political Science consists of 16 courses (8 core or compulsory courses and 8 optional courses) spread evenly over four semesters. Each course carries four credits. In formulating the entire programme, the Department is guided by the consideration that at the post graduate level, students should be familiar with all the sub-disciplines, trends, approaches, and paradigms of Political Science. With this in view, the Department offers core courses on Political Thought, Comparative Politics, International Relations, Indian Political Process, Public Administration and Public Policy. These courses are aimed at acquainting students with the latest political and theoretical trends, making the programme contemporaneous, relevant and useful. There is also

a course giving an overview of the major approaches to the study of politics.

After completing these 8 compulsory courses in the first two semesters, students are required to choose 8 optional courses from a considerably long list of special courses. These not only supplement the compulsory courses in the core areas but also offer students opportunities to study such frontier areas like Human Rights, Feminism and Post-modernism.

The **M.Phil.** course is a two semester programme. The students are required to devote the first semester to course work which consists of four courses, each carrying four credits, in the areas of Epistemology, Research Methodology, Advanced Theories and a specialised 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 as required course work) and a thesis on a topic approved by the Department. The thesis should be of a high standard and considered to be a valuable contribution to the area of study concerned. Candidates for the Ph.D. programme are required to submit a research proposal for the intended Ph.D. thesis along with the application for admission. The research proposal should contain hypothesis, goals or objectives, statement of the problem and methods of executing the proposal. *This is an essential requirement.*

Entrance examination

The written test for admission to **M.A. Political Science** will consist of three parts. In Part-A the candidates will have to answer objective type questions. In Part-B the candidate will be asked to write 5 short questions on Political Theory, Comparative Government, International Relations, Indian Government and Politics and Public Policy and Administration. The questions

will be specific and will be aimed at testing the candidate's knowledge of the subject. Candidates are expected to have B.A. level familiarity with the subject. Part-C will comprise comprehension.

The written examination for **M.Phil.** will have two parts- Part-A consisting of objective type questions and Part-B in the form of long essays in the following areas of Political Science: Political Thought, International Relations, Comparative Politics, Indian Government and Politics and Public Policy/ Administration.

The written examination for **Ph.D.** will have two parts - Part-A consists 3 questions on Methodology. Out of three questions, student is to attempt only one question and it carries 37.5 marks. It should cover the candidate's preparedness of research. Part-B consists of 10 questions on 5 areas of Political Science: Political Thought, International Relations, Comparative Politics, Indian Government and Politics and Public Policy / Administration. Student is supposed to attempt only **one** question and it carries 37.5 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 as Vice-Chancellor, Allahabad University).

Shantha Sinha, Ph.D. (JNU) - Indian Government and Politics, Political Sociology, Political Development, Rural Political Processes (on EOL as Chairperson, National Commission for Child Welfare, Govt of India).

Prakash C. Sarangi, Ph.D. (Rochester) - Political Theory, Com-parative Politics

P. Eashvaraiah, Ph.D. (Kanpur) – Indian Political Process: Political parties in India, Agrarian Politics in India; Modern Political Theory with Reference to Socialism and Feminism. (**Head of the Department**)

I. Ramabrahmam, Ph.D. (Hyderabad) – Public Policy, Governance, Higher Education and Training.

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

Md.Moazzam Ali, Ph.D. (JNU) - International Relations, Comparative Politics; Russian and East European Studies; Human Rights; Modern Ideologies.

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

Jyotirmaya Sharma, M.A. (HULL) – Political Philosophy/ Theory, Indian Political Thought

K.C. Suri, Ph.D. (JNU) – Indian Political Process and Public Policy

Readers

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

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

Prithvi Ram Mudiam, Ph.D. (London) – International Relations: Indian Foreign Policy, South Asian Politics, International Political Economy.

Manjari Katju, Ph.D. (London) – Indian Political Process, Politics of Hindu Nationalism, Women Studies

Lecturers

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

K.Y. Ratnam, Ph.D. (JNU) – Indian Political Process, Dalit politics in India, Democratic process in A.P.

R. Ramdas, Ph.D. (JNU) – Indian Political Process, Tribal Development, Comparative Politics

Naushad Anwar Sulaiman, Ph.D. (JNU) – International Relations, West-European Studies

Biju B.L., Ph.D. (Univ. of Kerala) – Political Theory, Indian Political Process, Politics of Globalization

Sujit Lahiry, Ph.D. (Punjab University) – International Relations, South Asian Studies

Department of Sociology

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 endeavour is to stress interdisciplinary exchange with other disciplines in the school. The Department has had a Special Assistance Programme, (DRS Level II) 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 (2007-2012), with a special focus on themes of globalization and public and public space.

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 from 2007-2008. At the end of three years, students in the latter programme have the option to join the department with the regular M.A. students, subject to some conditions.

The **M.A.** programme in Sociology is a four semester programme spread over two years and consists of 10 compulsory courses and 6 optional courses (equivalent to 4 credits each). Students may be allowed to take upto 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.** include: Classical Sociological Theory, Social Stratification, Research Methods I, Indian Society I, Indian Society II, Modern

Sociological theory, Research Methods II, Population and Society, Sociology of Development, Urban Sociology.

In addition the following optional courses are offered:

The optional courses for M.A. include: NGOs and Development; Environment and Sustainable Development; Indian Diaspora; Sociology of Gender; Sociology of Health; Sickness and Healing; Rural Society and Agrarian Change; 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; Decentralized Governance and Development.

The **M.Phil.** programme is a preliminary research degree course of two semester duration. The course work during first semester consists of two compulsory courses in Advanced Sociological Theories and Research Methods, 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. *Those employed and seeking admission as part time Ph.D. students must make a specific request to that effect at the time of admission. However, such admission is subject to the availability of vacancies under this category as per University rules.*

Entrance examination

The written test for admission into the **M.A.** degree course in Sociology is divided into two Sections: A and B. **Section A:** (maximum marks 25) comprises objective type of questions to test the comprehension

of a given passage, simple arithmetic and reasoning abilities. **Section B:** (maximum marks 75) consists of precis writing, a short note (about 150 words) and an essay (about 500 words) on a contemporary social issue.

The **M.Phil.** entrance written test and interview will be based on M.A. level sociological theory and methods.

The written test for **Ph.D.** 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. thesis, if any. Ph.D. candidates may be required to undertake course work if recommended by the Department. **The student seeking admission to the Ph.D. programme must submit with their applications an outline of their research proposal, bringing out specific theoretical and methodological approaches to be employed.**

Faculty

Professors

E. Haribabu, Ph.D. (I.I.T, Bombay) - Sociology of Science and Technology **(Dean of the School)**

Sasheej Hegde, Ph.D. (Bangalore) – Philosophy of Social Science, Social Theory, Law and Aspects of Indian Sociology/Historiography **(Head of the Department)**

Readers

K. Laxmi Narayan, Ph.D.(Mysore) - Urban Sociology, Social Demography, Backward Classes.

Vinod K. Jairath. D.Phil. (Univ. of Sussex, UK) – Sociology of Communication, Sociology of Development, Social Identities.

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

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

Lecturers

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

Ajailiu Niumai, M.Phil. (JNU) – Gender, Non-Governmental Organisations (NGOs) and Development, Child and Society.

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

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

Satya Priya Rout, Ph.D. (ISEC, Bangalore) – Sociology of Environment, Natural Resource Management and Development, Decentralised Governance.

Department of Anthropology

The Department of Anthropology started functioning from the academic year 1988-89. It imparts training in 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.

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 of 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. Physical and Archaeological Anthropology Practicals
5. Field work and 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. Field Work 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, etc. The students are permitted to opt for some inter-disciplinary courses from other departments and schools in consultation with the department.

“Field work” is an important component of the compulsory courses; the students must conduct field-work on a chosen topic for a period of about one month under the supervision of faculty and submit a dissertation for Viva-voce examination. This “field work” 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 Doctoral Committee for each student monitors the progress every semester. Based on the Report of the 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 precis writing, comprehension and analysis of statistical data.

The written test for **M.Phil.** admission is based on P.G. level Anthropological theory, methods, 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 line as M.Phil. Candidates for Ph.D. will be interviewed on the general theoretical area of specialisation 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

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

N.Sudhakar Rao, Ph.D. (Rochester) – South Asian Social Systems, Social Structure, Kinship Studies, Indian Society and Ideology, Anthropology of Communication, Anthropology and Gender (Coordinator, Centre for Social Exclusion and Inclusive Policy)

Readers

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

B.V. Sharma, Ph.D. (Hyderabad) – Medical Anthropology; Development and Action Anthropology

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

Lecturers

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

M. Romesh Singh, Ph.D. (Hyderabad) – Applied Anthropology and Tribal Studies, Organisation avior and Organisational Culture Studies

Centre for Regional Studies

The Centre for Regional Studies aims at conducting multidis-ciplinary research in the Deccan and adjacent areas. 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, and socio-economic history of the Deccan.

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 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 degree.

Faculty

Professor

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

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 emphasises 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 culture and history.

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 ones 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 behavior.
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**)

Reader

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

Documentation Officer

U.N. Sudhakarudu, M.A. (Hyderabad), M.Phil (OU) – Cultural Studies, Popular Culture, Visual Communication, Film Studies, Television Production, Educational Television, Development Communication, Traditional Media and Folk Arts, Audio-Visual Documentation and Archiving.

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 Centres 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 Centres 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. These dimensions are interwoven. It is one of the byproducts of modern or post-modern, competitive, market driven, technocratic, and globalised society. This concept is concerned with subtle forms of discrimination and indirect exclusion

and stubborn underneath or hidden inequality with superficial equality. Its faint appearance can even be noticed in the strategies of policies and economic growth strategies. The social exclusion has to do with 'capabilities'. This new concept encompasses the traditional forms of discrimination which operates in covert and overt manner on caste, gender, ethnicity, religious and linguistics minorities etc. Overcoming 'exclusion' constitutes the most elementary pre-requisite for the building of a democratic society, the goal with which our freedom struggle was fought and the tacit social impact on the basis of which modern India has come into being. The centre has the following objectives :

- a) Conceptualizing discrimination, exclusion and inclusion based on caste/ethnicity and religion.
- b) Developing understanding of the nature and dynamics of discrimination and exclusion.
- c) Conceptualizing and problematizing discrimination, exclusion and inclusion.
- d) Developing an understanding of discrimination at the empirical level.
- e) Formulating policies for protecting the rights of these groups and eradicating the problem of exclusion and discrimination.

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. The entrance test (written) for admissions to these programmes consists of two parts : Part - A of the question paper will consist of objective questions and Part - B consists of essay type questions to examine the aptitude and capability of the candidate to pursue research programmes in the centre.

Faculty

Prof. N. Sudhakar Rao, Ph.D (Rochester) – South Asian Social systems, Social structure, Kinship Studies,

Indian Society and Ideology, Anthropology of Communication, Anthropology of Gender, Department of Anthropology is the **Director of the centre.**

Joint Faculty

Reader

Dr. N. Purendera Prasad, Ph.D. (Hyderabad) – Agrarian Studies, Sociology of Health

Lecturers

K. Laxminarayana, (Selection Grade) M.A. (Hyderabad) – Political Economy and Agricultural Economics

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

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

K.Y. Ratnam, Ph.D. (JNU) – Indian Politics, Dalit Politics in India, Democratic process in A.P.

R. Ramdas, Ph.D. (JNU) – Indian Political Process, Tribal Development, Comparative Politics

Romesh Singh, Ph.D. (Hyderabad) – Applied Anthropology and Tribal Studies, Organisation Behaviour and Organisational Culture Studies

Centre for the Study of Indian Diaspora

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 20 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.

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.

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

Prof. E. Haribabu, Ph.D. (IIT Bombay) – Sociology of Science & Technology (Dean, School of Social Sciences is the **Acting Director of the Centre**)

Lecturers

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

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.

SAROJINI NAIDU SCHOOL OF PERFORMING ARTS, FINE ARTS AND COMMUNICATION

The Sarojini Naidu School of Performing Arts, Fine 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 disciplines 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. Vinod Pavarala, of the Communication Discipline is the Dean of the School.

The School comprises the following departments:

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

The School has evolved a pattern of studies for **Master's Degree programmes** in four semesters in

the disciplines 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 discipline. 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 Ph.D. 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, four different specializations, viz., **Kuchipudi, Bharata Natyam, Contemporary and Folk** are being offered. The students are required, at the time of the admission itself, to specify their specialization.

In the Master of Performing Arts (**M.P.A**) programme, the 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. It also gives a clear understanding of the dance forms of their choice, enabling the students to perform with greater felicity and also undertake new choreographic work. 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 & Media are some of the important areas that are dealt with in the course from the present academic year. For the courses with **specialization** in **Bharata Natyam** and **Kuchipudi**, major stress is on the techniques of Classical Indian Dance including the Sattwikabhinaya and their analysis and application to suits the changing needs.

In the **Contemporary Dance specialization**, the practical classes will be offered in a range of modern and traditional Indian and International techniques; improvisation, composition and choreography; stagecraft, lighting and music; and choreography for film and digital arts. Theory classes will range from dance anthropology, aesthetic theories in performing arts, artistic processes; dance pedagogy and research methodologies; aspects of Indian, Asian and World Dance; and arts management.

The **Folk Dance** specialisation seeks to bring together the works of folklorists, linguists, ethnologists and social anthropologists besides an artistic and cultural approach. This course will offer a blend of practice and theory, including folk narratives, folk music and choreographic techniques involved in folk forms such as the circular forms, martial and acrobatic forms, traditional theatre forms and mask dance forms.

Besides the regular teaching by well-trained core faculty, for all the above courses, additional inputs will be provided in the form of workshops by eminent and international guest faculty; video seminars; performing in dance-productions; opportunity to create new dances; and travel to important performing arts festivals.

The **Ph.D.** programme of the Dance Department, started in 1991, has so far produced nine Ph.Ds. The focal areas in various aspects of dance, including both historical works as well as those exploring the

evolutionary processes Kineasthetics and interrelation between various dance forms and trends in dance, context and content.

Entrance Examination

Admission is through an entrance examination consisting of a combination of objective and essay-type questions on subjects related to the specific field of study. There would be a common question paper for all specialisations. Those selected in the entrance examination will then be called for a practical test before final selection.

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

Faculty

Professor

Anuradha Jonnalagadda (Kuchipudi), Ph.D. (Hyderabad) – Theoretical aspects of dance, Kuchipudi practicals and choreography. **(Head of the Department)**

Readers

Pasumarti Ramalinga Sastry (Bharatanatyam) Diploma (Kalakshetra, Chennai) – Bharatanatyam dance, theory, practicals, Choreography and Nayika and Nayaka categories.

Bharat Sharma (Contemporary dance; Mayurbhanj Chhau) – Modern techniques, production process and choreography, improvisation, composition and stagecraft.

Lecturer

M.S. Siva Raju (Kuchipudi), Ph.D. (Hyderabad) – Comparative dance studies, musical aspects of dance, movement for dance and choreography.

Guest Faculty

Dr. Nataraj Ramakrishna

Dr. Sunil Kothari

Dr. C.V. Chandrasekhar

Smt. Kalanidhi Narayanan

Sri Kala Krishna

Dr. Urmimala Sarkar

Sri Navtej Singh

Smt. Tripura Kashyap

Prof. Ramachandra Gouda

Smt. Chitra Vishweswaran

Dr. Modali Nagabhushan Sarma

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 Direction (Direction Practicals); **Advanced Course in Design** (Design Practicals); and **Acting and its new Contexts** (Contemporary approaches to Acting)

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. **(Head of the Department)**

Readers

Jnaneswara Bhikshu, Ph.D. (Hyderabad) Indian Drama and Theatre, Comparative Theatre Aesthetics

Satyabrata Rout, M.A. (National School of Drama)-Scenography

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

Lecturer

Joly Puthussery, Ph.D. (Hyderabad) - Acting Theory and Practicals, Technical aspects of theatre.

Department of Fine Arts

M.F.A. in Painting/Print-making / Sculpture

The School offers a two-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 School 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.

Faculty

Professor

R.S. Sham Sunder, P.G. Dip. Printmaking (Kala Bhavan, Visva Bharthi University, Shantiniketan) B.A. Bangalore University (History, Economics, Sociology).

Reader

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

Lecturers

Baishali Ghosh, M.F.A. Art History (Faculty of Fine Arts, M.S. University, Baroda),

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

Guest Faculty

Shilpa Mehta, MFA Art History (M.S. University) Indian Painting.

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

Rakhi Peswani, MFA Ceramics, (M.S. University) Painting & Sculpture.

Department of Communication

M.A. in Communication

The Department offers a full time two-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) **Radio & video production**
- b) **Print & New Media**
- c) **Communication Studies**
- d) **Advertising & Public Relations #**

To be offered based on availability of resources

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 areas in the last two semesters (See Entrance Examination below 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:

Specialisation Stream	Focus areas of study
Radio & Video Production	Radio/TV Journalism, studio & field Production, broadcast media management, documentary & short film making, music videos, fiction
Print & New Media	Specialised reporting & editing, features for Print & New Media, layout & design, production & managing websites, content management, media management
Communication Studies	Development Communication, Film/TV studies, Communication Research, Cultural studies, ICTs, Globalisation & media, media & gender
Advertising & Public Relations	Practice of Advertising & Public Relations, brand management, copy writing, media planning, organizational & corporate communication, market research Note : To be offered based on availability of resources

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 formal 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. The internship shall be considered 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 Adobe PageMaker, 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 facility. Portable digital field recording units are also available for outdoor recording. Students learn to operate professional sound editing software such as Protools, SoundForge, Cool Edit etc. The video lab is equipped with a three-camera set-up for multi-camera productions. Besides these, four digital video cameras are exclusively meant for single-camera field productions. Post-production facilities include non-linear Avid and Final CutPro 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.

While the Department subsidizes production-related activity of students, including purchase of tapes and other post-production work, they should be prepared to incur any additional expenses for such things as transport for shooting on location, field visits, and participation in various events etc.

Entrance Examination

Applicants found eligible must write an entrance examination consisting of a combination of objective and essay type questions. The examination is of three parts: general knowledge and current events, media awareness, writing ability and verbal aptitude. 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. Requests for change in specialization streams shall not be entertained under any circumstances.

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. **(Pro Vice-Chancellor-2)**

Vinod Pavarala, Ph.D. (University of Pittsburgh, USA)- Communication and Development, Community Media, Popular Culture. **(Head of the Department & Dean of the School)**

Readers

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

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

Lecturers

E. Sathya Prakash, Ph.D (Osmania University) – Television Production, Media Policy & Management

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

Guest Faculty

Pavan Kumar Manvi, ETV Network

Paromita Vohra, Filmmaker, Mumbai

Anjali Monteiro, TISS, Mumbai

K.P. Jayasankar, TISS, Mumbai

Bimal Unnikrishnan, TV Producer, New Delhi

Usha Raman, Communication Consultant, Hyderabad

Venkatesh Chakravarthy, Film Scholar, Chennai

Frederick Noronha, Freelance Journalist, Goa

Subbu Vincent, indiatogether.org, Bangalore

Anil Kalaga, Tata Chemicals, Mumbai

A.R. Venkatachalapathy, MIDS, Chennai

Vamsee Juluri, University of San Francisco, USA

Rahul De, IIM, Bangalore

Other media experts are called for occasional extension lectures to the students.

SCHOOL OF MANAGEMENT STUDIES

The School of Management Studies (SMS), sanctioned by the UGC, commenced functioning from May, 1999. It offers Two-year full-time residential MBA Programme, and a Ph.D. programme in Management Studies. It promotes faculty and doctoral research, consultancy, training, and outreach activities in various manufacturing, corporate, infrastructural, services and developmental sectors. Its faculty organize on-campus seminars, and actively participates in external seminars, executive and faculty development and PG programmes. The School is starting an M.B.A. Programme in Health care and Hospital Management from the year 2008 - 09 in collaboration with the School of Medical Sciences.

Vision

The broad Vision of the School is to strive to achieve excellence in management education, research, training and consultancy.

To achieve this Vision, the following mission is being pursued:

Mission

- a) To continually expand the scope of application of management concepts to infrastructural, institutional, Environmental & Developmental services, Entrepreneurship & emerging areas like CRM, SCM, Health Care and Hospital Management, Business Incubation, University Industry Partnership, research, training and consultancy;
- b) To enhance quality research skills among the Ph.D. scholars;
- c) To promote the development of socio-economically sensitive, responsible and effective managers and management academics of tomorrow.

Activities

To achieve the Vision and Mission, the School:

- a) organizes the MBA core courses, electives, project work, self-awareness and growth lab, organizational skills workshop, summer internships, and other relevant inputs;
- b) promotes research by faculty and Ph.D. scholars;
- c) organizes seminars and encourages participation in external seminars;
- d) collaborates with reputable national and international institutions and industry;
- e) encourages students to organize and participate in co-curricular and extra-curricular activities.

Prof. V. Venkata Ramana is the Dean of the School.

M.B.A. Programme

The two-year MBA full-time residential programme with an intake of 50 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, 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 some practical exposure by undertaking eight weeks internships 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 cultures. 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 specialization offered:

- Marketing Management
- Finance Management
- Human Resources Management
- Operations Management
- Information Technology in Management
- Entrepreneurship

Ph.D. Programme

The School also offers a Ph.D. programme in Management Studies. The students will be expected to produce a dissertation of international quality based on research in analytical and/or applied areas of strategic/functional management.

The School proposes to have an intake upto six students in the ensuing year. Candidates interested in applying for the Ph.D. (full-time and part time) programme during the academic year 2008-09 should refer to the University's advertisement in national dailies in March/ April, 2008, and the University's website.

Hostel accommodation for full-time Research Scholars is available

Minimum Qualifications for Admission

a) M.B.A.

Note : Admissions or the annual intake of 50 students to the M.B.A. 2008-10 batch are underway on the basis of CAT-2007 percentile scores of those candidates who had applied to the University of Hyderabad in addition to on-campus group discussion and interview of the short-listed candidates.

Eligibility for 2009-11 batch:

1. A three-year Bachelor's degree (or its equivalent) in any discipline recognized by the Association of Indian Universities/AICTE, obtained on or before June 2009. Those completing their final examinations by June 2009 can also apply.
2. They should appear in CAT-2008, conducted by the IIMs, in November/December 2008.
3. They should also apply separately to the University of Hyderabad by November/December 2008.

For admission to the 2009-11 M.B.A. batch, interested applicants should watch for the School's advertisement/press release in September/October 2008 in leading national newspapers and the University's website. They can plan to appear in CAT 2008, and apply to the University by November/December 2008. A separate MBA Prospectus 2009-10 together with the programme details and the Application Form for admission during the year 2009-10 will be available in electronic and print form in September/October 2008.

Candidates are required to pay an amount of Rs.12,000/- at the time of admission as one time payment towards the SMS Development Fee in addition to the normal fees as prescribed by the University.

b) International students : 2009-11 MBA Batch

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

- First class (60% or above or its equivalent) marks 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 schools onwards, attested copies of mark-sheets and TOEFL (or equivalent) scores, a brief (200 to 300 words) statement of purpose for pursuing the course and names and contact addresses of at least two referees, by **April 30, 2008 at the latest**. They should also ensure that, if admitted, they can join the programme by mid-July, 2008 at the latest.

Tuition and other fees and a one-time contribution to the SMS Development Fee for students from SAARC countries will be the same as those for students from India. 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. All M.B.A. students are required to stay in the University hostels.

c) Ph.D. Programme

Eligibility: First class Master's degree or its equivalent in Management, Commerce or Accounting (M.B.A., M.Com., C.A., I.C.W.A.).

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 60% weightage, additional qualifications, if any 10% weightage, and the interview 30%, in the final selection.

Note: Candidates who have qualified in UGC NET for JRF in Management Studies or related areas are exempted from appearing in the written test and will be given due weightage out of 60 marks for the written test. They will however have the option to appear in the written test to secure more than the assigned marks.

Part time Ph.D.

The candidates having first class Master's Degree with a minimum of 60% marks or its equivalent in Management or any related / allied areas and with a minimum of 10 years of professional experience in a senior position may be considered by the School for admission to Ph.D. Programme of the school under part time scheme to a limited extent. The candidates admitted have to pay a fee of Rs. 15,000/- per annum (to be paid semester wise) and they must pursue the programme for a minimum duration of 3 years to become eligible for submission of thesis. The selection for admission would be based on : (a) submission of a research proposal on the broad area of research to be under taken, (b) making a presentation before the Doctoral committee of the School, followed by an interview.

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

The School of Management studies would be offering a Two year M.B.A. (Fulltime) programme in Health Care and Hospital Management from the year 2008-09 in collaboration with the School of Medical Sciences of the University to meet the challenges and opportunities offered by the growing Health care industry in India which is poised to become a global hub for the health care services. Some of the recent government initiatives

focus on improving health care access, boosting private sector participation, and upgrading technology and managerial skills to manage the complex health care environment.

About the program

The programme fulfills specific needs of middle level administrators in hospitals or 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 prepares students to contribute effectively in any area within healthcare and hospital management including but not limited to insurance companies, government agencies, hospitals, practicing physicians, health centres, diagnostic centres and nursing homes. It focuses on developing excellent managers with the desired professional skills required at 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 board 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 being 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, including values and ethical practices
- To provide the necessary skills and knowledge for practical orientation and implementation of strategies in relation to modern hospital management practices
- To equip executives involved in healthcare administration with current knowledge in management

Highlights of the Programme

- Curriculum is spread over foundation and core courses in the first year and specialized courses and electives in 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
- Long term research project under the supervision of a faculty guide in conjunction with an industry mentor

Course Curriculum and program delivery

The course curriculum would be developed with active collaboration and 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 would be offered initially to a limited strength of about 20 (15+5* -*sponsored) 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.

The fee would be Rs. 1.2 lakhs for the entire duration of the programme (including development fee of Rs.15,000/- to be paid at the time of admission. For Sponsored Candidates, the fee is Rs. 2.4 lakhs for the entire duration of the programme (including development of Rs. 15,000/- to be paid at the time of admission).

Program Pedagogy

- The teaching/learning methodology would be 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.

Internship

The students are required to undergo 8-10 week summer internship in a reputed institution relating to the area so as to obtain practical knowledge. In addition to the summer internship, a comprehensive project is to be pursued and dissertation to be submitted under the guidance of a faculty member. Efforts would also be made to provide the students a continuous learning opportunity through short term projects and attachments with recognized hospitals.

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 page no. 20 of this brochure :

Entrance Examination

- Selection will be based on an entrance examination: Written test (60% weightage), Group Discussion (25% weightage), and Interview (15% weightage).
- The selection will be made on merit-basis and the necessary reservations will be made according to the rules stipulated by the University for the Programme.

Faculty

The School has been ranked among the top 20 in the country in terms of Intellectual Capital because of the School faculty have been very productive in research and related activities. In addition to the following list of faculty, few more faculty members are expected to join the school.

Professor

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

Readers

S. Mallikharjuna Rao, Ph.D. (Osmania), F.I.C.W.A., – Financial Management Strategic, General Management, Infrastructure Management and Health Care Financing (**Coordinator of the M.B.A Health care and Hospital Management Programme**).

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

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

V. Sita, M.A., M.Phil, (University of Hyderabad), Ph.D. (Osmania University) - FDP(IIM, Ahmedabad), PG Diploma (HRM) – Public Policy, Human Resource Management, E-Governance, entrepreneurship & Women Studies.

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

Lecturers

Chetan Srivastava, PGCCA, MCSD, MBA (Mktg), MBA (HRM), MBA (Sys.), Ph.D. (Management – Osmania University) – Strategic Marketing. International Marketing, Advertising, Sales Management, HRD and Systems

G.V.R.K. Acharyulu, M.Tech (Chemcial – Kakatiya), M.B.A. (Osmania), Ph.D. (Management – Osmania) - Quantitative Techniques, Operations Management, Supply Chain Mangement and Systems Analysis.

The following are the distinguished external members of the School Board:

Mr. M. Gopalakrishna, IAS (Retd), Director I/c, Andhra Pradesh Gas Power Corporation, Hyderabad

Mr. Amitabha Guha, Managing Director, State Bank of Hyderabad

Dr. Ashok Agarwal, CEO, Vkalp Systems Pvt. Ltd., Hyderabad

Mrs. Suchitra Ella, Director, M/s Bharat Biotech International, Hyderabad

Some of the Key invited Adjunct & Visiting Faculty are :

Mr. B.P. Acharya, I.A.S., Adjunct Faculty – Chairman & Managing Director, A.P. Industrial Infrastructure Corpn. Ltd., Hyderabad

Mr. Bobba Venkadri, Visiting Faculty – President & CEO, Trans India Acquisition Corpn., USA & General Partner, Venture East APIDC

Mr. Muntasir Ahmed, I.R.S., Visiting Faculty – Former Director General of Income Tax, Hyderabad

Several locally and international eminent senior managers and management experts are regularly invited to interact with the students as Guest Speakers in the courses and electives and seminars.

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 programs. The School has a Scientific Advisory Council-cum-School Board which has eminent biomedical scientists from India and abroad as its members. The School is collaborating extensively with the School of Life Sciences of the University which is well known for its research and academic contributions, and with other Schools/ Centers of the University involved in Health Sciences research. The School has access to State-of- the art research infrastructural facilities of the above mentioned Schools and Centers.

The School has several Adjunct, Joint and Visiting faculty from the University and other Institutes who enrich the multi-disciplinary research and academic programs.

The School of Medical Sciences has also established academic and research partnership with reputed Institutes in Hyderabad which have been recognized by the University like LV Prasad Eye Institute, Center for DNA Fingerprinting and Diagnostics, Care Foundation, National Institute of Nutrition, Institute of Life Sciences, Bhagawan Mahaveer Hospital & Research Center and Blue Peter Research Center.

The School has initiated the following academic programmes from the 2008-09 Academic year.

Integrated Master’s Program in Optometry and Vision Sciences : This 5 year M.Sc- Optometry and Vision Sciences course is offered in collaboration with LV Prasad Eye Institute, Hyderabad. A novel program envisaged to train the students in vision science as well as in different aspects of optometry backed up by extensive practical skills and clinical internship. The eligibility for admission is based on a written test

followed by an interview. The question paper, based on XII Board syllabus will have a total of 75 objective type questions in biology, chemistry, physics, mathematics and English.

Integrated Master’s Program in Nursing Sciences:

This 5 year M.Sc- Nursing Sciences course is offered in collaboration with Care Foundation, Hyderabad. The students receive specialized training in medical sciences, humanities, management apart from acquiring nursing skills to enable them to perform ably in nursing care and clinical research.

The eligibility for admission is based on a written test followed by an interview. The question paper, based on XII Board syllabus will have a total of 75 objective type questions in biology(50) and chemistry(25).

Ph.D program in Infection biology, Cancer biology and Community Nutrition:

The program is designed for in-service medical graduates to undertake research programs. The candidates must be working in Institutes recognized by the University and should have research experience and other qualifications as prescribed. The selection to the program will be based on satisfactory presentation of a research work carried out and proposal of doctoral work followed by an interview. They will work under the joint supervision of a recognized guide from the parent Institution and from the University.

The School is also participating in the following programs:

M.B.A – Health Care and Hospital Management, offered by the School of Management studies.

5-year Integrated Masters program - M.Sc. in Health Psychology, offered by Center for Health Psychology.

Prof. M.Ramanadham, Head, Department of Biochemistry is the **Cordinator of the School**

SCHOOL OF ENGINEERING SCIENCES AND TECHNOLOGY

The School of Engineering Sciences & Technology is 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”. The School has a Scientific Advisory Council-cum-School Board, which has eminent and highly experienced academics and technologists as its members to monitor the development of the School. The School will be extensively collaborating in teaching and research with the existing Science Schools in the University, Govt. R&D Laboratories and appropriate industries.

The School will have eventually a number of Departments offering innovative courses to meet “need of the hour” of industries and the Nation. The School will offer an Integrated M.Tech./Ph.D. programme in Materials Engineering from the academic year 2008-2009. Students admitted in this programme will have the option of continuing to the Ph.D. programme after completion of M.Tech. degree. The M.Tech. programme will be of two years duration. The first year (i.e. the first two semesters) will be devoted to course work and the second year will be spent on working on a research project resulting in a dissertation, which will be evaluated and will have to be defended in a viva-voce examination. The project work can either be done within the University or at a recognized outside institution, an R&D Laboratory, or an industry.

The School plans to have strong academic linkages with the R&D Laboratories like Defence Metallurgical Research Laboratory (DMRL), ARCI, DLRL, BHEL R&D Laboratory within the twin cities to start with, and the scope will be expanded later.

The process of appointing full time faculty is presently in progress and the School expects to have highly qualified teachers and researchers in place by the time the first semester starts. In addition, the School will have Guest/Visiting/Adjunct faculty members along with a few joint appointments within the University.

Adequate academic infrastructure for teaching and research is already available within the University. The School will collaborate with, and use the facilities available in the School of Physics, School of Chemistry, School of Mathematics & Computer & Information Sciences, Central Instrumentation Laboratory (CIL), Centre for Nanotechnology, Advanced Centre for Research in High Energy Materials, Centre for Modeling, Simulation & Design (CMSD) and Computer Centre. Some of the important facilities presently available are, materials preparation facilities, and materials characterization facilities like X-ray diffractometer, SEM, spectrographs, ESR, vibrating sample magnetometer, spectrophotometers, etc. An arrangement is being made with some of the Defence Laboratories to have access to a few of their expensive instrumental facilities. This is in addition to the developmental plans for academic infrastructure on its own in the School. The University has a top class Library, which already has a large number of books and journals in Materials Science & Engineering, and more are being now added. The Library facilities at other institutions in Hyderabad/Secunderabad will also be made available.

Admission to Integrated M.Tech./Ph.D. in Materials Engineering: The minimum qualifications for admission to this programme of are given in a tabular form at pages 21 & 23 of this brochure. The admission is based on a written test followed by an interview for the short listed candidates. The written test will consist of objective type questions. The syllabus for the test comprises of mathematics, physics and chemistry of B.Sc./B.Tech./B.E. level; basic knowledge of numerical &

computational methods, solid state physics & chemistry of M.Sc. level or materials science & technology of B.E./ B.Tech. level, and basic electronics of B.Tech./B.E. level.

Each admitted student will be paid Fellowship/ Scholarship as per the existing University rules of the University.

Faculty

Distinguished Professor

Prof. Roddam Narasimha Pratt Whitney, Chair Professor

Prof. A. K. Bhatnagar, CSIR Chair Professor is the **Coordinator of the School**

STANDALONE CENTRES

SPECIAL CENTRE FOR INTEGRATED STUDIES (SCIS)

Introduction

In the process of the fulfillment of the set objectives of the University, a **Special Centre for Integrated Studies (SCIS)** has been established in the year 2006-07 to offer 5 year Integrated Master's Degree courses in several subjects for imparting specialised education to the young boys and girls on completion of their +2 level of education.

Courses offered by the Centre

The Centre offers 5-year integrated Master's Degree courses in Science, Humanities and Social Science subjects.

An overview of the above courses:

The five year Integrated M..A. (I.M.A.) and M.Sc. (I.M.Sc.) course of the University of Hyderabad is not merely an integrated program that combines pre-graduate and post-graduate studies, but is also trans-disciplinary, cutting across several disciplines.

Facilities: Central Library with a good collection of books and periodicals, computing facility with internet access, experimental laboratories and hostel accommodation on the campus, IT Lab with internet access.

Flexibility: The credit system has the advantage of allowing the student ample choice of courses. (The students are permitted to exercise their option of subjects either soon after admission, or at the end of first year, or at the end of second year or even at the end of third year in certain courses).

Research orientation: There will be a component of research project in the last year (5th year).

Breadth: The subjects from Sciences, Humanities, and Social Sciences are offered in the first 2 years for all the students of these courses.

Academic atmosphere: These students will be amidst about 3000 students engaged in higher studies and research.

Financial Assistance: Every student admitted to these courses will be paid financial assistance. At present the value is Rs.500/- p.m.

Important points to be noted :

- All courses are full time regular courses. There is no provision for exit in between.
- The Medium of Instruction is English for all the courses except the language courses which will be taught in the language concerned. Therefore, proficiency in English is very much required.

Courses in Sciences

The subjects for I. M.Sc courses in Mathematical Science, Physics, Chemical Science, and Systems Biology are common in the first semester. The students with Biology background in +2 stage, who left Mathematics after the 10th class are expected to put in necessary effort to learn Mathematics needed for other courses. Similarly, the students who studied Mathematics in +2 stage and left Biology after 10th class are expected to learn necessary biology. To provide necessary help in this direction, the University run bridge courses in the first two semesters. The students who join the programme will be required to attend the relevant bridge courses. They are also encouraged to approach and seek help of the concerned faculty members.

Entrance Examination

There will be a common entrance test for admission to I.M.Sc in the above stated science subjects. The test consists of the questions at +2 level on Mathematics, Physics, Chemistry and Biology with 25 marks for each stream, and the total will be scaled down to 75 marks.

Courses in Humanities

I.M.A. courses in Languages (Telugu/Hindi/Urdu) and Language Sciences lead to an M.A. degree in the respective subjects. Students however, in the first two years get a broad foundation for their degree by being exposed to the basics of several disciplines.

Entrance Examination

There will be a common entrance test for admission to I.M.A. in Humanities. The test will consist of three parts; Part A, B, and C. Part 'A' will be on Quantitative and Analytical Reasoning. This part consists of 25 questions and each question carries one mark. There will be negative marking of 0.33 for every wrong answer. Part 'B' and 'C' of the question paper has 25 questions each. Each question carries one mark. Part 'B' is on Reading and Comprehension and Part 'C' is on current affairs and general knowledge. Part B has two sections: Section I and Section II. Section - I is a general test on competence in English and contains 10 objective type questions. Section - II is a passage for comprehension and contains 15 objective type questions. Students who opt for I.M.A. in Languages (Telugu or Urdu or Hindi) may chose a passage in the language concerned. Students who opt for Language Science should attempt the English passage. There is no negative marking for Part 'B' and 'C'.

Courses in Social Sciences

I.M.A. course in Social Sciences leads to the award of Master's Degree in Economics, History, Political Science,

Sociology, and Anthropology. The students admitted to IMA Social Sciences makes his/her choice of the discipline at the end of third year in which he/she wants to get the degree after fulfilling the minimum number of credits specified in each department. There will be an Academic Counseling Unit at the School level to guide the students every semester.

Entrance Examination : There will be a common entrance test for admission to the IMA Courses in Social Sciences. Written test carries 75 marks. The test consists of (a) Language and Comprehension (25 marks), (b) reasoning abilities (25 marks), and (c) quantitative aptitude (25 marks).

The minimum eligibility requirements and the schedule of written test/interview for admission to the above courses are given in a tabular form at chapter 1 of this Prospectus-cum-Application form.

Selection Procedure

The following procedure shall be followed for selecting the candidates for different Integrated Master's degree courses :

- a) All eligible applicants will be called for the written test to be held at 19 centres as at page 15. Only such candidates who are found successful in the written test will be called for the interview to be held at University Campus, Gachi Bowli, Hyderabad - 500 046.
- b) The written test will be in the form of simple objective type questions of +2 standard of two hours duration to be answered in the OMR sheet with black/blue ball point/sketch pen. There is a possibility of negative marking for wrong answers. Specific instructions will be given in the question paper/answer book.
- c) The weightage for different components for the final selection for admission will be - written test 75 marks, and interview 25 marks.

Other weightages

- a) **Weightage for distinction in sports/cultural activities** will be given as stated at page 6 of this brochure.
- b) **Some weightage** will be given in the interview to the rankers of National examinations like KVPY, and National Olympiad.
- c) **Weightage for candidates from Backward District:** Weightage may also be given to the candidates belonging to backward districts and 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 District under 1st quartile and 2 marks to the candidates belonging to the backward Districts under 2nd quartile.
- d) **Weightage for Linguistic Deprivation :** 2 marks of weightage may also be given to those who pursued their +2 level education in non-english medium which may be 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, where candidates secure the same marks in the entrance examination:

- (a) **First criterion:** Marks obtained in the entrance examination (written test).
- (b) **Second criterion:** Division and marks obtained by the candidates in the qualifying examination (at +2). If the final result is not available, then the marks up to the 1st year will be taken into account.
- (c) **Third criterion:** Division and Marks obtained in

the next lower public examination (SSC/ Matriculation or equivalent).

Candidates whose result of the qualifying examination (+2) is not declared may also apply for admission as stated at page 5 of this brochure.

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 project the digital divide and promote knowledge-driven and job-led economic development of the country. The Centre has strong internal linkage with well equipped and well-staffed 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, National Remote Sensing Agency, National Mineral Development Corporation and Baldota Industries, besides overseas institutions such as the University of London, University of California (San Diego Supercomputer Centre) and University of Sao Paulo.

UGC has recognized UCESS and granted faculty and research fund through their Innovative Research Program.

Programmes of Study

The Centre offers one and two years Post Graduate Programmes in collaboration with the National Geophysical Research Institute and Mining Industry,

as well as a number of highly focused short term refresher courses to enable cadres to update their knowledge and skills and improve their employment opportunities. Most importantly, they would have the competence to develop new cutting-edge technologies.

Baldota Fellowships

Five Fellowships of Baldota Foundation are available for selected candidates to pursue M.Tech. in Mineral Exploration. The fellowship covers tuition fee and field work expenses apart from Rs.5,000/- each per month (a total fellowship of about Rs.3 lakhs per candidate).

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.

Though the admission is meant for sponsored candidates only, non-sponsored candidates may also be considered for admission against vacancies if any, subject to the availability of Baldota Fellowships. Selection of candidates for admission will be based on their academic qualifications, written test and interview. 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 & EM Methods, Gamma -Ray Spectrometry , (2) Geostatistics, Mathematical Modeling & Quantitative Methods, (3) Nuclear Geology & Isotope Geochemistry, (4) Geochemical Exploration, (5) Spatial Data Management and Remote Sensing, (6)

Instrumental Techniques of Analyses, (7) Special Topics, and (8) 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 in the respective host organizations of the sponsoring candidates or at any recognized R&D lab/ industry lab.

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 against vacancies if any, subject to the availability of Baldota Fellowships. 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.

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 also in 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, Atomic Minerals Directorate and National Remote Sensing Agency.

A Mobile Geophysical Laboratory, equipped with Electrical Resistivity meter (ABEM Terra meter), Proton Precession Magnetometer, Spinner Magnetometer 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, MatLab, ArcGIS, Geosoft, ERDAS etc., at CMSD, UCESS, SDSC (GEON) form part of the training.

Field work: Students would be undergoing 10weeks intensive field training programme with emphasis on geophysical exploration techniques under the supervision of experts from AMD, NGRI 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 harvesting, conservation and recycling of water, ocean processes, ocean models and climate forecasts, poleoceanography, cyberinfrastructure, mineral exploration, earth's crust and mantle, metallogeny and environmental geochemistry (funded by UPE, UGC, INCOIS, MES, Indo-US Forum, ISRO and NRB).

Out-reach Programmes

- Harvesting and management of water resources, reclamation and utilization of bad lands, environmental management etc.
- Popularization of earth sciences among school children and public.
- Rural development –agriculture, education, health etc.

Workshops/Training Programmes

Apart from **M.Tech., Ph.D. and P.G. Diploma Programmes**, UCESS 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. K.V.Subbarao, Earth Sciences, (**Professor in-charge of the Centre**)

Prof. A.C.Narayana, Earth Sciences

Dr. S. Sri Lakshmi, Geophysics

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

Prof. D. Arun Agrawal, Computer Sciences

Dr. Rajeev Wankar, Computer Sciences, Associate Faculty

Prof. Vipin Srivasthava, Physics, Associate Faculty

Prof. C. Raghavendra Rao, Mathematics & Statistics

Faculty from the Schools of Chemistry, Physics, Mathematics, Statistics and Computer Sciences, Life Sciences of University of Hyderabad.

Adjunct Professors

Dr. V.P.Dimri, Geophysics, National Geophysical Research Institute

Dr. H.V.Rambabu, Geophysics, National Geophysical Research Institute

Dr. R.R. Navalgund, Remote Sensing, Space Application Centre, Ahmedabad

Faculty from other Institutions and R & D Labs

Prof. Kota Harinarayana, Fluid Dynamics, National Aeronautics Lab.,

Dr. Anjan Chaki, Atomic Minerals, Atomic Minerals Directorate, Hyderabad & other guest faculty from AMD.

Dr. K. Vinod Kumar, Remote Sensing, National Remote Sensing Agency, & other Guest Faculty from National Remote Sensing Agency.

Sri T. Suryanarayana, Geostatistics, National Mineral Development Corporation

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

Visiting Professors

Prof. J.N.Walsh, Environmental Geochemistry, University of London

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

Guest Faculty

Prof. R. Vaidyanadhan, Geological Society of India

Prof. Vishwas Kale, University of Pune, Pune

Dr. Subhas Tella, Geological Survey of Canada

Prof. D.V. Bhaskar Rao, Meteorology, Andhra University

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

Prof. S. Murali, Geophysics, Osmania University & faculty from National R&D Labs and Universities from India & Abroad

Industry

Dr. V. Kolla, Houston, Oil Exploration

Dr. Ravi Bastia, Reliance, Oil Exploration

ADVANCE CENTRE OF RESEARCH IN HIGH ENERGY MATERIALS (ACRHEM)

Advanced Centre of Research in High Energy Materials (ACRHEM) is an interdisciplinary research initiative aimed towards understanding of theoretical/experimental aspects in the areas of Physics, Chemistry, Mathematics and Statistics of processes involved in High Energy Materials along with the Electronics and Photonics instrumentation involved.

ACRHEM has the goal to develop state of the art facilities and techniques for perceiving the properties of high-energy materials (HEMs) through experiments with lasers, theoretical analysis and computation modeling, and synthesis of novel HEMs and nano-energetics. ACRHEM also aims for high quality teaching with a student-faculty ratio favourable for individual attention. The centre has various ongoing research programs both in experimental and theoretical fields to train Ph.D Scholars in the areas of both fundamental and applied fields of Physics, Chemistry, Mathematics and Statistics of processes, Electronics and photonics instrumentation 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; Laser induced shock wave generation and characterization; Time and Spatially resolved spectral analysis under extreme conditions; and development

of instruments and technology to observe, measure, by ultra fast measurement techniques the processes involved in the HEM applications and synthesis. The tools include short pulse lasers and fast detection systems, and smart strategies. Activities also include Polymer Sciences involving HEMs and research in the phenomenon of sonoluminescence; modeling of the physics of release of energy by HEM; modeling of mathematical and statistical processes of a mixture of HEMs; Material Sciences of HEM; Novel HEM and nanomaterials/nano-structures.

See University Website for more details.

Programs of Study

Ph.D. : Admission to this 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 a faculty member, on a topic approved by the ACRHEM. The student is required to show satisfactory progress throughout the period of research as well as fulfill other requirements prescribed by the ACRHEM. The requirements for the successful completion include submission of research results in the form of a thesis and defense of the same in a viva-voice examination. Approximately 20 Ph.D. positions are available during the 2008-09 academic year.

In addition to the Ph.D. programme, ACRHEM also takes Junior and Senior Research Fellows. In addition to the application on prescribed format of University the applicant is to send on plain paper a write up on applicant's purpose and intention of research in HEM and the corresponding area of interest.

Entrance Examination

For admission to the Ph.D. 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, and Mathematics & Statistics. The examination will consist of two sections i.e., Part A and Part B. Part A will consist of 25 objective questions of one mark each. Part - B will consist of three sections Physics, Chemistry and Mathematics & Statistics each having 25 questions. One can answer any 50 questions combined from part - B.

Infrastructural Facilities

Besides the facilities available in different Schools of the University the ACRHEM adds following infrastructure to the University pool : High power Nd-YAG nanosecond laser system with fundamental, second, third and fourth harmonics (Innolas), Tunable dye laser system (Radiant Dyes) in the range of 300-3000 nm, Ti: Sapphire picosecond and femtosecond laser system with OPA, autocorrelator, Spectrometers, fast oscilloscopes, CCD cameras, mid IR detectors etc. Material preparation and characterization facilities, electron beam gun, RF Sputtering etc.

Computer Facilities

All research workers have personal computers connected to the network of the University with wireless network facility, access of University library and CMSD/HPCF computer facility for simulation work.

Faculty

Prof. Surya P. Tewari, Ph.D. (Delhi) Quantum Optics, Nonlinear optics - **Director of the Centre**

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

Prof. S. Haridwar Singh, Ex-Director, HEMRL, Pune, Visiting Professor

Dr. Anil Kumar Chaudhary, Ph.D. (Burdwan) Laser Spectroscopy and Nonlinear Optics. (Experiment)

Dr. Soma Venugopal Rao, Ph.D. (Hyderabad) Nonlinear Optics, Decomposition of High Energy Materials, Nanophotonics, Ultrashort laser pulses, Femtosecond laser direct writing. (Experiment)

Dr. P. Prem Kiran, Ph.D. (Hyderabad) Laser - matter interaction, Laser induced Generation and characterization of shock waves; Propagation of Ultrashort, intense femtosecond pulses in atmosphere. (Experiment)

Dr. G. Manoj Kumar, Ph.D. (Hyderabad) Laser Spectroscopy, Spontaneous Emission modification, Interferometry for refractive index and thickness measurement, Combustion modeling. (Experiment)

Dr. Balakrishna Ashok, Ph.D. (Massachusetts Amherst, USA) Theoretical Soft Matter Physics, Polymer Physics & Complex Fluids, Instabilities, Nonlinear Dynamics of Complex Systems, Sonoluminescence & Cavitation. (Theory)

Dr. K. Muralidharan, Ph.D. (Anna University), Visiting faculty : Solid state theory, Materials science, Magnetism, Superconductivity, High Pressure Studies, elastic and mechanical properties investigated using first principles density functional calculations (DFT), (Theory)

Associate Faculty

Chemistry

Prof. M Periasamy, Ph.D. (IISc, Bangalore) F.A.Sc., F.N.A. Organics Chemistry, Organometallics and Chiral Reagents

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

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

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

Dr. Pradeepta Kumar Panda, Ph.D. (IISc., Bangalore)– Bio-Inorganic, Bio-organic and Supramolecular Chemistry: Synthesis and exploration of chemical, biological and material aspects of Porphyrinoids

Physics

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

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

Dr. Suneel Singh, Ph.D. (Hyderabad) – Quantum Optics

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

Dr. K.C. James Raju, Ph.D. (IIT, Madras) - Microwave Electronics, Ferroelectric Thin Films, RF MEMS, Microwave Materials and Characterisation Techniques (Experiment)

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

Dr. Nirmal K. Viswanathan, Ph.D. (Hyderabad) – Photonics Devices – Fiber Optic devices, Polymer optic devices – Optical interferometry (Experiment)

Dr. Janaki Balkrishnan, Ph.D. (Delhi) – Dynamical systems, Stochastic Processes, problems motivated by biology, quantum field theory

Dr. Ashoka Vudayagiri, Ph.D. (Hyderabad) – Quantum Optics, Laser Cooling, Quantum Information (Experiment)

Mathematics, Computer & Information Sciences

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

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

CENTRE FOR HEALTH PSYCHOLOGY

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 devoted to understanding psychological influences on how people stay healthy, why they become ill, and how they respond when they do get ill. It focuses on health promotion and maintenance; prevention and treatment of illnesses; 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 can also work independently
- They can do research and examine the interaction of biological, psychological and social factors in producing health and illness
- They conduct counseling for the psychosocial problems that illness may create
- 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 centre is engaged in Research in the field of Health Psychology which is one of the recent branches of Psychology and headed by a Coordinator and two faculty members.

Programmes of study

The Centre offers Integrated M.Sc., in Health Psychology, P.G. Diploma in Counseling Psychology, and Ph.D programme in Psychology.

Entrance Examination

There will be an entrance examination for admission to the above programmes. The admission is based on the written test followed by an interview for the shortlisted candidates after the written test. The test for admission to **Integrated M.Sc.** in Health Psychology will assess their aptitude in Psychology, basic knowledge in Mathematics, Biology and proficiency in English. The test for admission to **P.G. Diploma** in Counseling Psychology will assess their knowledge in Introductory 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.

Infrastructure

The Centre is equipped with a Psychological Laboratory and a Counseling laboratory. It has more than 200 standardized Psychological Tests, suitable for various segments of Population.

Faculty

Reader

Meena Hariharan, Ph.D. (Utkal) - Psychology of the Disadvantaged, Health Psychology, Psychology Resilience, Coping with stress. **(Coordinator of the centre)**

Lecturers (Ad hoc)

Dr. G.Padmaja - Counseling Psychology, Health Psychology

Dr. Meera Padhy - Psychology of Disadvantaged & Health Psychology

CENTRE FOR COGNITIVE SCIENCE

The Centre for Cognitive Science is an interdisciplinary research centre focusing upon the areas of linguistic cognition and cognitive systems. A truly interdisciplinary centre, 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. Within the short span of its existence the centre has received considerable international attention. The Centre is in the process of setting up a well-equipped laboratory with ERP and eye-tracking equipment, and proposes to offer research programs in cognitive science at the M.Phil. and doctoral levels. At present the centre offers 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 centre is on the network of the National Initiative of the Department of Science and Technology on Cognitive Science Research.

Programmes of study

The **M.Phil** program in Cognitive Science would consist of 16 credits of course work followed by a dissertation. The course work, to be completed within one semester, would cover the following topics :

- Formal and computational Approaches to Cognition: meaning, learning and reasoning
- Empirical Bases of Cognition
- Language, Philosophy and Cognition
- Dissertation-Oriented Readings

The **Ph.D** program in Cognitive Science would involve an additional 16 credits of dissertation-oriented readings in the second semester of the program, followed by a dissertation.

Entrance Examination

Selection will be made on the basis of a written test (Common for both M.Phil and Ph.D.) followed by an interview. The intake for M.Phil. and Ph.D for the 2008-09 academic year would be 7 and 3 respectively.

Eligibility for Admission is given in a tabular form at pages 22 & 23 of the brochure.

Faculty

Professor Vipin Srivastava, Dean School of Physics is the **Coordinator of the Centre**

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

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

Professor A.K. Pujari, Department of Computer and Information Sciences (on leave)

Professor Probal Das Gupta, Centre for Applied Linguistics (on leave)

Professor Amitabha Das Gupta, Department of Philosophy

Professor Subhendu Ghosh, Department of Animal Sciences (on leave)

Professor P. Prakash Babu, Department of Animal Sciences

Dr Prajit K. Basu, Department of Philosophy

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

The Centre is in the process of inviting some more faculty members in various Schools and Departments to join the forum.

CENTRE FOR WOMEN'S STUDIES

The **Centre for Women's Studies (CWS)**, at the University of Hyderabad is an inter disciplinary centre in the Schools of Social Sciences, Humanities, Performing Arts, Communication, Management and the Sciences. It is a stand alone centre collaborating with different faculty and schools. It has a local Advisory Board comprising of members from different schools 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. students. 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.

The CWS has signed a Memorandum of Agreement (MoA) with Times Foundation to set up a centre of excellence called "University of Hyderabad Times Centre for Women's Empowerment".

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 interface studies in the University as a whole.
- To mainstream gender issues in teaching and research.
- Work towards the empowerment of women.

Programme of Study

- The Centre offers an M.Phil. programme in Gender Studies, limited to 6 students with an increase in intake (2 or 3) more if suitable candidates are found.
- This 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, viz., Introduction to Gender Studies, Feminist Theories and Methodologies, Gender issue in Sciences and an individual seminar course in the broad area of research. The second semester is devoted for the preparation and submission of M.Phil. dissertation.

Entrance Examination

The entrance examination consists of two parts. Part A consists of objective type questions (maximum of 25 marks), related to women's issues. 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, understanding of social and developmental issues. The total marks are 75 for the written exam and 25 for the Interview.

Areas of Research

- Population and Reproductive Health, Women and the Environment, Women and Development, Problems of the Girl-child, Gendered Economics, Feminization of Agriculture, Women and Sciences, Gender Violence, Women, Society and Law, Women and religion, Women's History.

Emerging Research areas of focus

- Women and Entrepreneurship, Women and Globalization, women in Management, Women in the Diaspora, Women and /in Media, Women and Performing Arts, Women and Body Politics, Women and Intersecting Marginalities.

Faculty

Dr. Rekha Pande, Ph.D. (Allahabad): Women's History, Women and religion, Women's work in organized and unorganized sectors, Violence against women, Women's Movement, women and Globalization - Department of History is the **Coordinator of the centre.**

Centre for Distance Education

With a view of providing more opportunities for higher education to a wider section of the society, the University had introduced Post-Graduate Diploma programmes with 4 programmes in the year 1994 and it presently runs the following 20 P.G. Diploma Programmes and 2 certificate courses to cater to the needs of various sections of the society.

S.No.	Course Code	Course Name
1	PGDPM	Post Graduate Diploma in Project Management
2	PGDCAQM	Post Graduate Diploma in Chemical Analysis & Quality Management
3	PGDES	Post Graduate Diploma in Embedded Systems
4	PGDCED	Post Graduate Diploma in Consumer Education
5	PGDCE	Post Graduate Diploma in Communicative English
6	PGDLAN	Post Graduate Diploma in Library Automation & Networking
7	PGDCAIL	Post Graduate Diploma in Computer Application in Indian Languages
8	PGDTVP	Post Graduate Diploma in Television Production
9	PGDTSH	Post Graduate Diploma in Translation Studies in Hindi
10	PGDCL & IPR	Post Graduate Diploma in Cyber Laws & Intellectual Property Rights
11	PGDTC	Post Graduate Diploma in Telecommunications
12	PGDMTU	Post Graduate Diploma in Mass Communication and Translation Techniques in Urdu
13	PGDHR	Post Graduate Diploma in Human Rights
14	PGDBM	Post Graduate Diploma in Business Management
15	PGDMB	Post Graduate Diploma in Medicinal Botany
16	PGDENM	Post Graduate Diploma in Energy Management
17	PGDMC & TTT	Post Graduate Diploma in Mass Communication and Translation Techniques in Telugu
18	PGDEE	Post Graduate Diploma in environmental Economics
19	PGDEM	Post Graduate Diploma in Environmental Education and Management
20	PGDBE	Post Graduate Diploma in Business Ethics
21	STCM*	Short Term Course on Make Up
22	CPSM*	Certificate Program on Stress Management

* Certificate course

The CDE is planning to introduce few more P.G. Diploma programmes as detailed below :

1. Commodities Future
2. Personal Finance Management
3. Investment Analysis
4. Health Economics and Management
5. Applied Econometrics
6. History of Indian Art Culture
7. Buddhist Studies

Academic Staff College

Established in 1987 as a major initiative in augmenting quality in Higher Education, the UGC promoted 51 Academic Staff Colleges. The Academic Staff College of University of Hyderabad is a constituent unit of the University offering Orientation, Refresher and need-based courses for lecturers working in Universities and Colleges. The Staff College has so far organized 55 Orientation courses and 149 Refresher Courses besides a number of short-term courses for Educational Administrators & Principals. In the year 2007-2008, the Academic Staff College organized three Orientation Courses and Five Refresher Courses and a Principal Workshop. Three Refresher Courses are due to be organized in February and March 2008.

During the year 2008-2009, the ASC will organize Orientation Courses and Refresher Courses in subjects proposed by Academic Advisory Committee and approved by University Grants Commission.

Faculty

Prof. I Ramabrahmam, (Professor, Department of Political Science), Ph.D. (Hyderabad) - Public Policy, Governance, Higher Education and Training (**Honorary Director**)

Reader

Meena Hariharan, Ph.D. (Utkal) - Health Psychology, Counseling Psychology, Coping Techniques, Personality Training and Higher Education. (**Coordinator, Centre for Health Psychology**)

The faculty is involved in teaching and research in the University.

Lecturer

Dr.S. Sudhakar Babu, Ph.D (Hyderabad) – Public Policy, Equality of Opportunities and Dalit Studies, Public Policy for Good Governance, Policy Studies, Civil Society, Training and Higher Education.

ACADEMIC & STUDENT SERVICES

INDIRA GANDHI MEMORIAL LIBRARY

University Library is a **central facility to support the teaching and 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 Sciences, Social Sciences, Humanities, Performing Arts, Fine Arts, Communication and Management Studies.

The library has a collection of more than 3 lakhs books & back volumes of journals. The library subscribes to around 700 periodicals, popular magazines & newspapers in English and Indian languages. The library also subscribes to over 18,000 e-journals from several publishers with the help of UGC-INFONET. Important text books and a small collection of SC/ST books are kept in a book bank in a separate room. The library has a separate reading room which is kept open round-the-clock for the benefit of the students.

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 journals for advanced research. The Library is an active member of the UGC-INFLIBNET program and has been identified as one of the six Document Delivery Centres in the country. It is also an Institutional member of National Institute of Rural Development Library (NIRD).

The University library has achieved several distinctions in the country for application of IT. **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 journals; the first library in undertaking the computerization programs of other libraries on a turnkey basis; the first to become the governing council member of the OCLC, USA; the first in installing an Electronic security gate with magnetic detector; the first in starting a Post-Graduate Diploma course in Library Automation and Networking (PGDLAN); and its is the First Library to start Digitization of books in India.

The library is open throughout the year except on national holidays – Republic Day, Independence Day, Gandhi Jayanthi, Holi, Dussera and Diwali. It functions from 8.30 a.m. to 11.30 p.m. on all working days and from 10.00 a.m. to 5.00 p.m. on Sundays and other Holidays. In the beginning of every academic year, the library organizes User Orientation Program for the new entrants (i.e. students) of the University, to enable them to make use of the library resources and services efficiently.

Hostel Accommodation

There are altogether 13 hostels on the campus, of which nine are for men and the rest four are for women. Six men’s hostels are meant for those admitted to different P.G. courses, while two Men’s hostels are meant for M.Phil Students and Research Scholars (Ph.D). There is an exclusive hostel meant for International Men’s students. Of the four ladies hostels, two hostels are meant for P.G. students, and remaining hostels are meant for M.Phil and Ph.D. students. Four more hostels are under construction.

The students who are granted admission in 5-year Integrated Master’s Degree courses are required to stay in the University Hostels.

The University cannot provide hostel accommodation to all the students admitted into various courses in view of the limited number of seats.

Reservation of seats: Of the total number of seats in the hostels, 22.5% are reserved for candidates belonging to S.C/S.T. and 3% for Physically Challenged students.

The hostel accommodation will be provided only for the duration of the course i.e. P.G. courses – 02 years; M.C.A. – 03 year; M.Phil – upto 1 ½ year; Ph.D. – upto 05 years.

In no case, the stay will be extended beyond the stipulated period.

The hostel accommodation is provided to the students based on the distance from their native place to Hyderabad. The preference will be given to the students who belong to far away places.

The students who give the “Hyderabad’ address for Communication but belong to a place far away from Hyderabad and need hostel accommodation are required to submit ‘Proof of nativity’ at the time of hostel admission. They can submit an attested copy of their ‘Voter I.D. Card’ or ‘Ration Card’ in which their name figures with native place, or a ‘Nativity Certificate’ issued by the Revenue Officer of their respective native place as proof of residence.

Mess facility attached to different hostels are completely managed by the inmates. The average vegetarian monthly mess bill (Break fast, Lunch and Dinner) for the girls worked out to about Rs. 600/- and for boys Rs. 900/- during earlier years.

Details of guidelines for residence of students at University Hostels would be provided in the form of Hostel hand Book at the time of admission. (Contents of the hand book can be seen at University’s Website also).

Financial Support

The University offers fellowships to all students admitted to any of its regular programme of study. Particulars in brief are :

University Scholarship

1. All 5-year Integrated M.Sc and M.A. students will be supported with financial assistance @ Rs.500/- p.m. for the first three years and @ Rs.1000/- p.m. for the next two years.
2. All M.Sc., M.A., M.B.A., M.P.A., and M.F.A., students will be paid scholarship @ Rs. 1000/- p.m. for two years and for MCA for three years.
3. **University Achievers awards**
For all PG courses (except M.Tech and M.Phil) an achievers award @ Rs.2000/- p.m. for scoring highest marks in the class will be paid in the preceding semester. Its continuation depends upon the continuation of the scoring of the highest marks by the awardee. Such awards will be one if the class strength is less than 10 and two if the class strength is more than 10.
4. M.Tech and M.Phil students will be paid scholarship @ Rs.3000/- p.m. for two years in the case of M.Tech students (Non-GATE) and one year in the case of M.Phil students.
5. Ph.D Scholars will be paid scholarship @ Rs.5000/- p.m. for a period of 4 years, extendable by one more year in exceptional cases.

Concessions to blind 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 tuition fee, examination fee and other fees, Reader’s allowance @ Rs. 400/ p.m. in respect of PG/ M.Phil/Ph.D. students and Rs.1000/ 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 50/- for Internal Exams/Term papers and Rs. 100/- 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.12,000/ p.m. for the first two years and Rs.14,000/ . 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.8000/- p.m. for the first two years and Rs.9,000/- p.m. for the subsequent years.

CSIR Fellowships: The CSIR JRFs pursuing research are paid a fellowship of Rs.12,000/ p.m. for a period of two years which may be increased to Rs.14,000/ 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.*

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 Metric Scholarships for SC/ST students
- c) GOI Scholarships for non Hindi speaking students for Post Metric studies in Hindi
- d) GOI Scholarships for physically handicapped
- e) GOI Scholarships for Ex-Servicemen/Freedom Fighters' children

- f) A.P.Govt. EPP 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.

NOTE: Decision regarding the University scholarships, is generally taken up by October each year by way of notification inviting applications. Payment of these scholarships can, therefore, be made only after announcement of the list of selected students. However, payment of scholarships awarded/funded by other agencies like UGC, CSIR, AICTE, etc. can be made only after receipt of the sanction and scholarship amounts by the University.

Health Care

The Health Centre, managed by a team of doctors, supported by nurses and other para medical staff caters to the basic needs of the campus community.

Any expenses related to medical emergencies and hospitalization will be borne by the parents/guardians of the students concerned. At the time of admission, an undertaking to this effect has to be given by the parents/guardians of the students.

Every student shall submit a certificate of physical fitness obtained from a qualified Medical Practitioner at the time of admission without which she/he will not be permitted to complete the admission.

A scheme for **health insurance** which is mandatory for all the students exists in the University to provide health care and to cover expenses towards in-patient treatment subject to a maximum of Rs. 15,000. **All the students must apply for medical insurance in the prescribed form by a notified date.** The insurance fee of Rs 300/- per annum is payable at the time of

admission in July by the freshers and along with the fees for the Monsoon Semester in the case of ongoing students. Those who do not pay the fees and do not submit the copy of the challan in the office of the Dean, Students' Welfare will not be eligible for any kind of medical aid and their enrolment in the University will stand automatically cancelled.

Note: A detailed leaflet on the medical insurance scheme of the students will be provided to the students along with intimation letters of their provisional selection for admission and also to the wait-listed candidates.

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 center 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 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.

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 Health Centre. 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 they 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, representative from Center for Women's Studies, 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.

Central Instruments Laboratory (CIL)

Central Instruments laboratory (CIL), is a central facility with state of art Sophisticated Analytical Instruments and Liquid Nitrogen Plants to cater to the needs of the faculty and research scholars in the University.

The areas of specialization of the CIL staff include advanced Electronics, Microprocessor based Instrumentation, practical aspects of scanning Electron Microscopy, maintenance of Sophisticated Analytical Instruments and teaching advanced courses in Electronics and Instrumentation.

Computer Centre

The Computer Centre was established as a central facility to facilitate, foster and support the essential teaching and research goals of University of Hyderabad through the deployment and delivery of computing and communication services to the University's faculty, students, officers and staff.

Centre for Modeling Simulation and Design

Preamble

The passage from atom, molecule, and nanoparticle to bulk matter has emerged as the natural continuum requiring fundamental understanding based on Physics, Chemistry and Biology. 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. Thus computer-based simulations form an integral part of modern research methodology. For example, the design of the best carbon particle size in Tribology involves as much computing as basic science and engineering. In this era of science-driven-engineering, the role of scientific research, based on modeling, simulation and design, is of paramount importance. Countries and Institutions across the world are gearing up to avail the challenging opportunities provided by this new tool. 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 interdependence of Science, Engineering and Technology, and launched a uniquely conceived new programme of higher education and research. The need for computation in all areas of research and teaching at the University had been felt for long. This initiative has been supported by an imaginative programme of the UGC in recognizing some Universities for their potential for excellence. Of the five Universities selected so far under the scheme, the University of Hyderabad has already proposed, and got approval for, an innovative interfacial studies and research programme with a substantial funding. The UGC approved establishment of the Center for Modeling, Simulation and Design (CMSD) was fuelled further by generous support from DST under its FIST programme.

CMSD hopes 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. Expertise thus developed would help in reaching out to other research

organizations and industry. Training individuals and organizations in specific hardware and software, undertaking consultancy and turnkey projects, helping to convert real life questions into appropriate mathematical and computational models are expected outcome. CMSD became operational from its new premises during December 2004. CMSD has been accorded an Academic Status by the University and Department of Science & Technology recognized CMSD as National High Performance Computing Facility.

Currently, CMSD over a 2 TFlops computing facility and is expected to grow to a 10 TFlops, by positioning a 1024 core cluster, by the end of this year.

Computational Resources

- 6 IBM SMP Systems with total of 256 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+)], 512 GBytes of Main memory and 4 TBytes of storage,
- A CDAC PARAM SUN cluster consisting of 16 nodes (each with dual xeon dual core processors) and 32 GB memory and
- High end workstations such as 6 x SGI Octone 2, 2 x SUN Blade 2000, 6 x IBM Intellistations, with about 100 PCs etc.
- Two interactive labs (Windows and Linux) for training on advanced software given below:

To support various application domain areas following software have been deployed on the above hardware: Accelrys Suite, Gaussian 2003, MOPAC, Relibase+, Molpro, ADF, GCG Wisconsin, SPSS, Mathematica, Statistica, GAMS, RATS, Matlab with various 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, Cadence, ISATIS, HPC

compilers (like Fortran 90, Intel, Lahey compilers, PGI compilers, Absoft Fortran Compiler etc) on various platforms. Image Processing S/W like ERDUS.

Current focus of Research Areas

- VHDL implementation of 1D discrete wavelet transform, Programmable universal timer, adaptive PID controller, telecommunication switch etc.
- Non-Boltzman sampling methods to study critical effects in the presence of randomly quenched disorder
- Monte-Carlo Simulation
- Mie scattering from systems of bispheres and cluster of spheres
- Study of Grid Fabric/Middleware technology
- Computer Aided Drug Design
- Processing, analysis, and calculation of NMR (Nuclear Magnetic Resonance) spectra
- The reactive scattering dynamics of H+HLi collisions
- Model molecular complexation phenomena at the air-water interface
- sequence and structural analysis of the proteins from *Mycobacterium tuberculosis* genome
- effect of high pressure on electronic properties of atoms and molecules
- theoretical study to understand Reaction of aroyl hydrazones with b-diketones in 2:1 ratio
- Design of molecular structures of theoretical and practical importance
- Modelling of Human Topoisomerase II
- mapping and identification of genomic regions (Quantitative Trait Loci) associated with drought tolerance in rice
- Homology Modeling of Cyclooxygenase-3 (COX-3)
- Modeling of insect hexamines and their receptors

Prof. Arun Agarwal, Head, Department of CIS is the **Director of the Centre.**

Placement Guidance and Advisory Bureau (PGAB)

To facilitate the recruiting process of the students for final placements, the University of Hyderabad has started the Placement Guidance and Advisory Bureau.

Teaching and evaluation regulations

Special features

The special features of the University's academic set up include a favourable teacher student ratio (1:9); a flexible academic programme that encourages interdisciplinary courses and research. The assessment, including projects and examinations, 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.

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 this continuous assessment and performance in the end semester examination. The evaluation regulations are given below.

Attendance and progress of work

Students are required to attend at least 75% of the classes actually held in each course and at least 60% in the repeat course / subject and participate, to the satisfaction of the Department/School, in study 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/departments and the names of the defaulters removed from the rolls. Absence from classes continuously for 10 days and more will make the student's name liable to be removed from the rolls of the University. The absence on medical reasons should be supported by a certificate which has to be submitted soon after recovery.

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 Grading System. There will be 7 letter grades; A+, A, B+, B, C, D and F on 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 of semester examination which will be in the ratio of 40:60 in case of theory papers 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 in such a form as the School Board may decide will be maintained by the School.

4. At the end of semester examination, the answer scripts will be evaluated and the grades scored by each student in each course taken by him/her will be communicated to the Head of the Department for onward transmission to the Office of the Controller of Examinations. Wherever required, the Dean / the Head of the Department along with the teacher concerned may moderate the evaluation.
5. (a) Students must 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. 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. No student of **PG/Adv. PG/PG Diploma/M.Phil, M.Tech and Integrated PG courses**, shall be permitted to move to the next semester, if he/she has a backlog of more than 50% of the courses at any stage including the previous semesters, subject to a maximum of two courses where the number of the courses in a semester are four and a maximum of three courses where the number of courses in a semester are more than four (at any given point of time including the backlogs of previous semester 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 School Board concerned on the recommendation of the Supervisor(s).
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 6.5 and above and upto 7.9	I Division
CGPA of 5.5 and above and upto 6.4	II Division
CPGA of 6.0	II Division with 55%
CGPA of 5.0 and above and upto 5.4	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 he/she 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 6.5 and above and upto 7.9	I Division
CGPA of 5.5 and above and upto 6.4	II Division
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 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 will be permitted to take a supplementary examination a second time in the same course except in the case of one repeating the entire course.

12 (a) No student of **Post graduate, Adv. PG/PG Diploma, and Integrated PG courses** shall be allowed to continue his/her enrolment for more than two 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" (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 only. However, such students have to pay the tuition and other fees for the idle semester 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. Also, no student of MCA, M.Phil. and M.Tech. will be permitted to work on the dissertation/project unless he/she has completed the course work.

13. The students who are not found eligible to take semester examination 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 immediate 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 option either to undergo instruction for all the courses of the concerned semester or to undergo instruction in only such courses in which they have failed on the condition that 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 the students immediately after the assessment.

15. No request for re evaluation of the result declared in any course will 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 for reconsideration from the students concerned should reach the Dean of the School concerned through the Head of the Department within 15 days of the announcement of the results of that assessment.

Note: If a student is not satisfied after consideration of his grievance concerning evaluation by the School level 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.

16. (a) Students absenting themselves after payment of fees from a regular semester examination may be permitted by the University to appear in a supplementary examination of the semester. The application for permission to appear in a

supplementary examination shall be made by the student concerned in the prescribed form. The application along with the prescribed fee should reach the office of the Controller of Examinations through the Department/ School concerned by the date prescribed for this purpose.

(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.

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 appearance at an examination for improvement should take place soon after completion of the examinations for the semester concerned along with the supplementary examinations within a week of the commencement of the teaching of the next semester.
- 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, a student is required to clear all courses of a particular semester in which the student intends to take improvement examination.
- v) For the purpose of award of medals, prizes, and rank, etc., the grades obtained by a student in the examination taken for improvement/ supplementary shall not be taken into account. In respect of tie cases actual marks obtained will

be taken into account for identifying the topper.

- vi) The grade sheet of a student will indicate full information of the examinations taken by him/her. Grades obtained in the 1st and 2nd attempts will both be shown in the grade sheets.
- vii) Application for improvement examination shall be made by the students concerned to the Controller of Examinations in the prescribed form along with the prescribed Examination Fee within a week of the commencement of the teaching of the next semester.
- viii) Students are permitted to avail the facility of improvement examinations to a maximum of four courses of their respective programmes as detailed below:

one course at the end of first semester, two courses at the end of second semester, three courses (to be taken from 1st & 3rd semesters) at the end of third semester and four courses at the end of fourth semester.

The students those who have completed the course without availing the improvement facility as per the schedule prescribed by the University may be allowed to avail the unavailed improvement 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.

Note: A provision exists for a special supplementary examination in respect of such students who after completion of the prescribed duration of the course are not able to get their degree due to backlogs. However, if any student is having backlogs due to shortage of attendance, such students are not allowed to avail this facility.

Evaluation of M.Phil dissertation

- i) Students are required to take an open seminar on the M.Phil dissertation. Schools/Departments may hold it before/after submission of dissertation.

- ii) A Board comprising of 3-4 members will 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 will be awarded on the basis of examiners report as per the existing procedure. There is no minimum mark for passing in the seminar.

Evaluation of M.Tech CS/AI/IT & MCA Project work

1. The Projectwork of M. Tech. and M.C.A. students 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 will contain the CGPA and the division also. On the overleaf of the same, classification of the results under letter grade system will be given.
(ii) An additional grade sheet will be given to the students for the courses audited by them without attributing the credits and also 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.
- iv) In addition to the above provisions, the existing evaluation regulations in the University shall be applicable in the other matters, wherever required.

Medals for excellence in studies

With a view to encourage 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 (Jaian) 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. Natarajamakrishna 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 Educational Medal	M.Sc Electronics
14. Vasavi Academy of Educational 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. SBH Medal	M.Tech CS
20. Alekhya Technology Medal	M.Tech AI
21. Mannapalli Subbaramaiah Medal	Overall for M.Tech CS/AI/IT
22. Smt. N.V. Ranganayakamma Medal	M.Phil Physics

23. Prof. G.C. Jain Medal	M.Phil Urdu
24. Roopchand Chajed (Jain) Medal	M.Phil Hindi
25. President of India Medal	for overall performance (Biennially)
26. Pingali Monha Reddy Medal	overall performance in PG in Life Sciences
27. Alumini Medal	M.A. Anthropology (for a topper in Social Anthropology subject)
28. Akhtar Hassan Memorial Medal	M.Phil Urdu
29. IDRBT Medal	M.Tech IT

Donor Medals for women toppers

30. Smt. Ravuri Kantamma Bhardwaja Medal	M.A. Telugu
31. State Bank of India Medal	M.A. Economics
32. A.P. History Congress Medal	M.A. History
33. Prof. G. Ram Reddy Memorial Medal Science (Human Rights)	M.A. Political
34. 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 Biotechnology

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.

For the award of the above medals, the topper in the subject concerned should secure first division in the degree and pass all the examinations within the prescribed duration in first attempt. The marks obtained in supplementary/ improvement examination shall not be taken into account.

President of India Medal

President of India Medal will be awarded biennially 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., a) sports activity, (b) cultural activity, (c) participation in debates, seminars and similar activities, (d) participation in NSS, blood donations camps, etc., (e) participation in literacy drive and non-formal education, and (f) leadership which includes representation on students union, mess secretary etc. For this, a weightage of 70% will be given for academic performance after normalization and 30% for other activities. The students must provide the information to the HoDs/Deans for this purpose with the 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 instituted a medal for the meritorious student from amongst the physically challenged category from P.G. Courses. This will be awarded annually in the Convocation. The selection procedure for such student will be similar to that of President of India Medal.