



हैदराबाद विश्वविध्यालय University of Hyderabad

विवरण-पत्रिका सहित आवेदन पत्र
Prospectus Cum Application Form
2011-12

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

Cost of Prospectus Cum Application Form-
General/OBC Rs.400/-
SC/ST/PH Rs.150/-

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THE UNIVERSITY

The University of Hyderabad, a premier institution of postgraduate teaching and research in the country, was established by an Act of Parliament (Act No. 39 of 1974) on 2nd October, 1974 as a Central University, wholly funded by the University Grants Commission.

The “*objects of the University*” as envisaged in the Act are:

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

The University’s scenic, and serene campus is spread over a vast stretch of land measuring about 2,000 acres, 20 kms from the city of Hyderabad on the old Hyderabad - Bombay road. Amidst the picturesque environment of the campus, several buildings catering to the academic needs, support facilities and residential requirements of the campus community have been constructed over the years. The University also has a city campus ‘The Golden Threshold’ the residence of the late Sarojini Naidu which was bequeathed to the University by her daughter, the late Padmaja Naidu.

Schools of Study

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

8. School of Management Studies
9. School of Medical Sciences
10. School of Engineering Sciences and Technology

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

Departments / Centres of Study

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

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

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

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

The **School of Humanities** has the following Departments and Centres:

1. Department of English
2. Department of Philosophy
3. Department of Hindi
4. Department of Telugu
5. Department of Urdu
6. Centre for Applied Linguistics & Translation Studies
7. Centre for Comparative Literature
8. Department of Sanskrit Studies
9. Centre for the Study of Foreign Languages
10. Centre for English Language Studies

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

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

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

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

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

Standalone Centres offering Academic Programmes

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

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

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

Over the years, the teaching and research programmes of the University have been firmly established. The students are selected through a nationwide entrance test. About 30% of the students are Ph.D. scholars and more than 32% of the students are women. Till 31.3.2011, over 18700 students of the University had been awarded various degrees through formal education, which consists of 1,627 Ph.Ds., 3,442 M.Phils. 1,400 M.Techs. and 12,251 Postgraduate Degrees and Diplomas. The Faculty of the University include 157 Professors, 116 Readers and 125 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 is an ideal place indeed to locate a Central University. The weather for most part of the year is pleasant except for the months of April and May when the temperature is likely to go up to 40°C. The intellectual climate is vibrant. Hyderabad is home to nine major Universities and several research institutions, laboratories and libraries.

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

Medium of Instruction

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

Courses of Study

Admissions during 2011-12 are open for the following courses:

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

I.M.Sc. Courses (10 Semesters)

Mathematical Sciences

Physics

Chemical Sciences

Systems Biology

Optometry & Vision Sciences

Nursing Sciences

Health Psychology

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

Languages: Hindi, Telugu and Urdu

Language Science

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

Postgraduate Courses

M.Sc. courses (4 Semesters)

Mathematics

Applied Mathematics

Statistics-OR

Physics

Chemistry

Biochemistry

Plant Biology & Biotechnology

Molecular Microbiology

Animal Biotechnology

Biotechnology*

Health Psychology

* The admissions for M.Sc. Biotechnology course during the year 2011-12 will be based on the allotment made by the Jawaharlal Nehru University (JNU), New Delhi which will conduct a common entrance test on 20.5.2011.

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 MBA course for the academic year 2011-12 has been completed based on the percentile scores obtained in CAT 2010 followed by an Interview / Group Discussion.*

M.A. courses (4 Semesters)

English

Philosophy

Hindi

Telugu

Urdu

Applied Linguistics

Comparative Literature

Economics

History

Political Science

Sociology

Anthropology

Communication (Communication & Media Studies, Print Journalism & New Media, and Television & Radio)

M.P.A. Dance (4 Semesters)

(Kuchipudi, Bharatanatyam, and Folk)

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

M.F.A. Courses (4 Semesters)

Painting, Print Making and Sculpture

Art History

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

Mineral Exploration

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

Folk Culture studies

P.G. Diploma Courses (2 Semesters)

Counseling Psychology

Health Fitness and Life Style Management

M.Tech. Courses (4 Semesters)

Computer Science

Artificial Intelligence

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

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

Integrated Circuit Technology (I.C.T.)

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

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

M.Phil. Courses (2 Semesters)

English

Philosophy

Hindi

Telugu

Urdu

Applied Linguistics

Translation Studies

Comparative Literature

Shabdabodha Systems & Language Technologies

Economics

History

Political Science

Sociology

Anthropology

Regional Studies

Social Exclusion & Inclusive Policy

Indian Diaspora

Cognitive Science

Gender Studies

Ph.D. Programmes (2 to 5 years)

Mathematics

Applied Mathematics

Statistics / Operations Research (OR)

Computer Science

Physics

Electronics Science

Chemistry

Biochemistry

Plant Sciences

Animal Sciences

Biotechnology

English

Philosophy

Hindi

Telugu

Urdu

Applied Linguistics

Translation Studies

Comparative Literature

Sanskrit Studies

Economics

History

Political Science

Sociology

Anthropology

Regional Studies

Folk Culture Studies

Social Exclusion & Inclusive Policy

Indian Diaspora

Science Technology and Society Studies

Human Rights

Gandhian Economic Thought

Dance

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

High Performance Computing

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

Materials Engineering
 Nano Science and Technology

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

Biotechnology

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

Criteria for Admission

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

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

M.Tech CS/AI/IT, which is based on only the GATE percentile scores in Computer Science and Information

Technology. (No written test or interview will be conducted)

Admission to M.Tech. I C Technology, Computational Techniques and Bioinformatics

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

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

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

3. No student shall be eligible for admission to the Postgraduate Degree/Diploma Courses unless She/he has successfully completed a three year Undergraduate Degree through an examination conducted by a University/ Autonomous College. However, as a transitory measure, a candidate who has passed a two year degree course may also be considered for admission provided She/he has undergone a further one year bridge course and passed the same.

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

The eligibility of candidates passing their qualifying examinations from Universities following the letter grading system / CGPA will be determined on the basis of percentage equivalent to the letter grade/ CGPA obtained

by the candidates according to the conversion formula adopted by the University concerned. In the absence of any such formula, the decision of the University shall be final and binding on the candidates.

5. Candidates whose result of the qualifying degree examination is not declared and who may be appearing for the qualifying degree examination before 31.7.2011 may also apply for admission.

Candidates who have completed and will be completing all the formalities viz., written the theory examinations, completed practical examinations, submitted Project reports, completed viva-voce exams etc. before 31.7.2011 and are waiting for the results of the qualifying degree examination and those who are due to appear in the qualifying degree examination in the above stated aspects and expecting their results to be declared and are getting their certificates before **31 July, 2011** will also be allowed to appear for the entrance test. The condition is that, in case of their selection to a course in the University, they should submit the certificates of the qualifying degree examination and other earlier examinations positively at the time of completion of the admission. In exceptional cases, the University may give extension of time up to **31.8.2011** to submit the certificates of the qualifying degree examination. Such students will be given conditional admission up to **31.8.2011** only. *However, this facility shall not be extended to those who are taking regular or supplementary or improvement examinations of the qualifying degree after 31.07.2011 and waiting for the results.* In the event of the concerned students failing to (i) submit their certificates of the qualifying Degree examination by **31.8.2011**, and (ii) not passing the qualifying degree examinations with the prescribed percentage of marks, they will not be allowed to attend classes any further and their conditional admission shall be cancelled forthwith. No request will be entertained for extension of time to submit the certificates under any circumstances beyond **31.8.2011**.

In case of non-submission of other certificates like Transfer Certificate, Migration Certificate and any other academic certificate other than the qualifying degree examination certificates, students may be allowed time upto **30.9.2011**,

failing which the Provisional admission of such candidates shall also be cancelled forthwith.

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

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

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

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

Reservation of Seats

1. Reservation of seats for SC and ST candidates:

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

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

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

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

2. Reservation of seats for OBC candidates

In accordance with the policy of the Govt. of India and the guidelines of the University Grants Commission, 27% of the seats in each course are reserved for OBC (non-creamy layer category) candidates. There is no relaxation in minimum qualifications for admission and no concession in the cost of Prospectus-cum-Application forms for OBCs. However, there is a concession in the cut off marks in the entrance examination (both written and interview put together) which is 10% lower than the cut off prescribed for admission for General category candidates in any course. Candidates claiming reservation under this category must

enclose an attested copy of the OBC (non-creamy layer) certificate issued by a competent authority without which their claim will not be considered under OBC category.

3. Reservation of seats for the differently abled (physically challenged) candidates:

3% of seats on approved intake in each course are provided as supernumerary seats for the physically challenged candidates having minimum degree of disability to the extent of 40% provided that their physical disability does not come in the way of pursuing the course. This is split into: 1% for visually challenged (VH), 1% for hearing impaired (HI) and 1% for orthopedically handicapped (OH) candidates with a provision of interchangeability. The minimum eligibility requirements prescribed are relaxed in their cases as in the cases of SC / ST candidates. The candidates under this category should take the entrance examination for admission. Physically Challenged candidates are required to submit a certificate from a Civil Surgeon of a Govt. Hospital indicating the extent of visual/physical disability and also the extent to which the disability hampers the candidate in pursuing her/his studies.

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

Visually challenged candidates appearing for the entrance examinations will be given extra time of 20 minutes for two hour papers and will also be allowed the use of a personal typewriter during the examination. The University will provide scribes for such students. *They will not be allowed to bring their own scribes.*

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

Upto 5% of seats on the approved intake in each course are provided as supernumerary seats for the wards/dependants of Defence Personnel. The candidates should enclose a copy of the certificate issued by a competent authority in support of their claim without which their claim will not be considered. The candidates under this category should take the entrance examination for admission and fulfill all other requirements of admission.

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

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

The nominations of the candidates belonging to the above Union Territories / States should reach the University through the respective UT / State Government by **31st May, 2011**. *(The candidates should fulfill the minimum eligibility requirements prescribed)*. Reservations are made for candidates of all the above mentioned States and Union Territories as a whole on the basis of the candidate's performance in the qualifying degree, and the seats so filled shall be over and above the approved intake (supernumerary seats) for the year.

Note : *Applications received directly from the candidates without routing them through the respective Directorate of Higher Education of the UT/NE state and nominations received after 31.5.2011 will not be considered.*

Weightage for distinction in sports/cultural activities:

With a view to encourage admission of candidates with an excellent record in Sports and Cultural activities, the University provides a weightage of upto two marks in the entrance examinations - two marks for distinctions achieved at national level and one mark for distinctions at the state level (but not both), for admission to various Post-Graduate courses, and 5-year Integrated Master's Degree

courses provided the candidates satisfy the prescribed qualifications for admission. *(Candidates seeking weightage for distinctions in sports / cultural activities must furnish along with their applications, attested/Xerox copies of certificate/s in support of their claim, failing which no weightage would be considered).*

Admission of Foreign Nationals:

Foreign nationals will be admitted over and above the approved intake in each course up to a maximum of 15% of the sanctioned seats in each course, depending upon the availability of adequate infrastructure. Foreign nationals seeking admission through ICCR or other governmental agencies may apply to the University in the prescribed form through the respective bodies. However, self supporting foreign nationals may apply directly to the University for admission in the prescribed form latest by **15th April, 2011** for the July 2011 session. The University may consider admission of foreign nationals '*in absentia*', on the basis of their desire "to be considered *in absentia*" if they possess a valid foreign passport at the time of applying to the University, irrespective of from where they have passed the qualifying examination, subject to the condition that they are found suitable for admission by the Admission Committee of the concerned School / Department / Centre. Those who have passed the qualifying examination from Universities outside India should enclose with their application, copies of relevant certificates, marks sheets together with the English version of such copies duly attested, if they are in a different language.

Foreign nationals seeking admission to the University will be required to produce a medical certificate of fitness from a recognized hospital in their country. Those offered admission may also be required to undergo a comprehensive medical examination as prescribed by the university. ***Proficiency in English is a pre-condition for admission of foreign nationals.*** No foreign national will be admitted without a student visa. **Foreign nationals selected for Ph.D. programmes will be allowed to complete the admission only after obtaining a research visa from the Indian Embassy abroad. There is a different fee structure for foreign nationals, as indicated**

on subsequent pages of this chapter. Accommodation in the University hostels may be provided if available.

Non-Resident Indians (NRIs): NRIs will also be considered for admission in different courses in accordance with the rules in vogue. NRIs may apply directly to the University for admission in the prescribed form latest by **15th April 2011**. They may be considered for admission, if they are found suitable for admission by the Admission Committee of the concerned School / Department / Centre in accordance with the rules. Candidates who take admission under this category shall pay the tuition and other fees as payable by foreign nationals.

Entrance Examinations

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

2. The entrance examinations in the case of MPA, MFA, and M.A. in Communication in the Sarojini Naidu School will consist of a written test and a practical test/interview. The weightage for the 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. *The schedule for the written test, practical test/ interview for all the courses is given in a tabular form at the end of this chapter.*

3. The entrance examination for the **5-year Integrated M.Sc. in different disciplines, M.Sc. Mathematics, Statistics-OR, Physics, and Health Psychology, M.Phil, Integrated M.Sc./Ph.D. Biotechnology; M.Tech. / Ph.D. Materials Engineering, Nano Science and Technology and Ph.D.** in different subjects will consist of a written test and an interview (after qualifying in the former). The written test will carry 75 marks and the interview 25 marks.

Admissions in **M.Tech Computer Science, Artificial Intelligence, and Information Technology**, will be

granted only on the basis of GATE scores in Computer Science and Information Technology.

Admission in **M.Tech IC Technology** is based on the GATE scores in the order of merit in one of the following:

1) Electronics and Communication Engineering, 2) Instrumentation Engineering and 3) Physics followed by an interview for the short listed candidates. There is no written test for admission to this course.

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

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

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

The performance of the candidates in the **written test in some of the courses** as listed below is in objective or multiple choice questions and will be evaluated using the OMR technology. The candidates will be required **to mark the answers in the OMR Sheet with blue or black ball-point or sketch pen** during the test. Necessary instructions will be given in the relevant question papers.

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

5-year Integrated M.Sc. and M.A. in different disciplines, M.Sc. - Mathematics/Applied Mathematics, Statistics-OR, Physics, Chemistry, Biochemistry, Plant Biology & Biotechnology, Molecular Microbiology, Animal

Biotechnology, Health Psychology; M.C.A., M.A. - Telugu, Applied Linguistics, Economics; M.Phil. - Telugu, Applied Linguistics, Translation Studies Economics; Integrated M.Tech./Ph.D. Materials Engineering, Nano Science and Technology; Ph.D. in Animal Sciences, Biotechnology, Applied Linguistics, Translation Studies, Economics, Management Studies, Materials Engineering, Nano Science and Technology, ACRHEM, Integrated M.Sc./Ph.D. Biotechnology; PG Diploma in Counseling Psychology and Health Fitness & Life Style Management.

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

5. The written tests for all the courses will be held from **1st to 7th June 2011** at 26 different Centres in the country, as listed in this chapter.

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

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

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

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

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

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

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

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

- (a) **First criterion:** Marks obtained in Part - A of the written test.
- (b) **Second criterion:** Marks obtained by the candidates in the qualifying degree/other examination. If the final result is not available, then the marks up to the 2nd year will be taken into account.
- (c) **Third criterion:** Marks obtained in the degree examination immediately preceding the qualifying degree examination.
- (d) **Fourth criterion:** Marks obtained in the next lower public examination.

9. Interviews for candidates short-listed for admission to M.Phil., M.Tech., and Ph.D. on the basis of written test and those exempted from written test (on the basis of UGC/CSIR JRF(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, RGNFs, 5-year Integrated M.A., M.Sc. in different disciplines, Integrated M.Tech./Ph.D. Materials Engineering, Nano Science and Technology, Integrated M.Sc./Ph.D. Biotechnology, M.Sc Mathematics, Statistics-OR, Physics, Health Psychology and the courses offered by the S.N. School are tentatively scheduled to be held between **6th July to 11th July 2011**, in the respective Schools/ Departments/ Centres. **However, exact dates of the interview/practical test will be notified and made available on the University website for the information of the short listed candidates.**

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

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

Particulars of the scheduled event	Adv. PG Dip. / PG Degree Courses in Sciences (except M.Sc in Maths, Statistics-OR, Physics, and Health Psychology), Humanities, Social Sciences and 5-Year Integrated M.A. Courses	M.Tech. CT, IC Technology and Bioinformatics, Adv. PG Dip. / M.Tech. Mineral Exploration , Ph.D, P.G. courses of S.N. School, M.Sc. in Maths, Statistics-OR, Physics, and Health Psychology, 5-year Integrated M.Sc. P.G. Dip. in Counseling Psychology and Health Fitness and Life Style Management	M.Tech CS/AI/IT
Notification of short-listed candidates for interviews / practical tests	-----	27.6.2011	---
Notification of list of selected candidates (Main & waiting lists)	4.7.2011	22.7.2011	30.6.2011

Note:(i) *The Entrance results will be made available on the internet:*<http://www.uohyd.ernet.in>; www.schools9.com; <http://www.indiaresults.com>. *The University will not communicate any of the above information to the candidates concerned by post. Therefore, it is the responsibility of the candidates to obtain the information on their selection by visiting the University website.*

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

iii) **Lists will be notified at the Office of the Controller of Examinations, Administration Building, University Campus, Hyderabad, and also at the city campus “The Golden Threshold (GT)”, Abids, Nampally Station Road, Hyderabad. The notifications will also be available on the University’s web site: <http://www.uohyd.ernet.in>.**

Commencement of classes

- MBA and M.Tech. in CS/AI/IT : **15.7.2011**
- All PG courses in Sciences (except M.Sc., Mathematics, Statistics-OR, Physics, and Health Psychology), Humanities, Social Sciences and 5-year Integrated M.A. Courses : **20.7.2011**
- M.Tech. Integrated Circuit Technology, Computational Techniques, Bioinformatics, M.Phil., Ph.D., Adv. PG

Dip/ M.Tech. Mineral Exploration, Integrated M.Tech./Ph.D.; M.Sc./Ph.D.; PG Courses offered by the S.N. School, M.Sc in Mathematics, Statistics-OR, Physics, Health Psychology and 5-year Integrated M.Sc. courses : **8.8.2011**

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

- The following cut-off marks will be followed in respect of the entrance examination (both written and interview put together) for admission to M.Phil., M.Tech., Integrated M.Tech./Ph.D., Integrated M.Sc./Ph.D. and Ph.D. programmes:

Course	Cut off marks		
	For General category	For OBC (10% less than the cut off for General category)	For PH(20% less than the cut off for General category)
M.Phil and M.Tech	50%	45%	40%
Ph.D.	55%	49.5%	44%
Integrated M.Tech/ Ph.D. and M.Sc./Ph.D.	55%	49.5%	44%

Note: Dynamic cut off will be followed in the case of SC/ST category.

- 2) a) Candidates qualified in **UGC/Joint UGC-CSIR** National level test for JRF, **RGNFs**, **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 45 out of 75 marks in the written tests. They will, however, have the option to appear in the written tests to secure more than 45 out of 75 marks.
- b) As the UGC-CSIR JRF holders are expected to avail of the Fellowship within one year from the date of the award, such candidates may be exempted from the written test for admission to Ph.D. if they have been holding the Fellowship for not more than two years before their application for Ph.D admission. No candidate will be allowed to avail of this facility more than once.
- c) KVPY scholars, Science Olympiad and 1st rankers of different Boards of +2 level of education seeking admission in Post Graduate or 5-year Integrated M.Sc. in Sciences, Health Psychology and M.A. in Humanities/Social Sciences courses are exempted from the written test in lieu of which they will be given a weightage of 45 out of 75marks in the written test. However, they have the option to appear in the written test to secure more than 45 marks out of 75 marks.

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. However candidates possessing M.Sc./B.E./B.Tech. degree and GATE scores in Physics/ECE and seeking admission to the Ph.D. in Electronics Science are exempted from the written test in lieu of which a weightage of 45 marks will be given. They have to appear for the interview.

(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) **Part time registration to Ph.D.:** Facilities exist to a limited extent for part time registration for Ph.D. Programmes. Persons engaged in teaching and research in reputed institutions are eligible for admission under this category, provided they fulfill the minimum eligibility requirements and are found successful in the entrance examination as prescribed. This facility is limited to those working in the twin cities (Hyderabad and Secunderabad) in respect of Science Schools (except Mathematics) and anywhere in Andhra Pradesh for the remaining Schools (except the Department of Computer and Information Sciences). Part-time Registration to Ph.D in Computer Science is only for teacher candidates who are teaching in UGC/AICTE approved Universities or P.G colleges or Engineering Colleges within Andhra Pradesh.

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

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

listed below, and also a guide from the Department of Computer / Information Sciences.

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

List of Institutions recognized as External Centres

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

S.No. Name of the Institution/ Subject/s of Research

- 1 National Remote Sensing Agency – Computer Science, Physics, Earth & Space Sciences
- 2 Computer Maintenance Corporation Ltd.
- Computer Science
- 3 Defence Metallurgical Research Laboratory
- Physics
- 4 Centre for Economic and Social Studies – Economics, Political Science, Anthropology and Regional Studies.
- 5 National Institute of Small Industry Extension Training
- Economics and Anthropology
- 6 Institute of Public Enterprise - Economics
- 7 Advanced Data Processing Research Institute
- Computer Science
- 8 Directorate of Rice Research
- Life Sciences
- 9 Directorate of Oil Seeds Research
- Life Sciences
- 10 Bhagwan Mahavir Medical Research Centre
- Life Sciences
- 11 Advanced Numerical Research and Analysis Group
- Computer Science (ANURAG)
- 12 Dr. Reddy's Research Foundation
- Chemistry and Life Sciences
- 13 International Crops Research Institute for Life Sciences
- Semi Arid Tropics (ICRISAT)
- 14 Research Centre Imarat (RCI) -
- Computer Science
- 15 Centre for DNA Fingerprinting and Diagnostics (CDFD) - Life Sciences
- 16 National Institute of Rural Development (NIRD)
- Economics, Political Science, Sociology, Anthropology, Regional Studies
- 17 Institute for Development and Research
- Computer Science, Information Technology,

in Banking Technology (IDRBT)- Management Studies

18 Indian Institute of Chemical Technology - Chemistry

19 L.V. Prasad Eye Research Institute

- Biochemistry, Animal Science, and Communication

20 Shantha Biotechnics - Animal Sciences

21 Indian Immunologicals - Animal Sciences

22 Administrative Staff College of India (ASCI)
- Management Studies

23 Blue Peter Research Centre - Animal Sciences

24 National Geophysical Research Institute (NGRI)

- Computer Science, Artificial Intelligence,
Physics, Chemistry and Earth & Space Sciences

25 National Institute of Nutrition (NIN) - Biochemistry

26 International Advanced Research Centre for Engineering Sciences & Technology, Powder Metallurgy and New Materials (ARCI) - ACRHEM and Physics

27 Non-ferrous Materials Technology Development Engineering Sciences & Technology Centre (NFTDC)

28 Institute of Life Sciences (ILS) - Chemistry and Life Sciences

29 Centre for Development of Advanced Computing Computer/Information Sciences (CDAC)

30 Advanced Technology Centre (ATC) of TCS

- Computer/Information Sciences, Life Sciences

31 Bharat Biotech Foundation - Life Sciences

32 Aurigen Discovery Technologies - Chemistry and Life Sciences

33 Asian Health Care Foundation - Life Sciences

34 Global Medical Education and Research Centre

- Life Sciences

Associate Institution Status

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

1. Indian Institute of Chemical Technology (IICT)

2. L.V. Prasad Eye Research Institute (LVPEI)

3. Institute of Life Sciences (ILS)

4. Institute for Development and Research in Banking Technology (IDRBT)

6) Ph.D. admissions for October 2011, January 2012, and April 2012 sessions

After completion of the regular admissions in July, 2011, vacant seats if any, in the Ph.D. programmes may be filled from among the JRF qualified candidates. CSIR JRFs may join an interested Faculty member of the University at any time before the time lapse of the award for the sake of claiming their fellowship. However, they may be considered for admission in accordance with the norms of the University for which the candidates have to apply in the prescribed application form. Interviews will be conducted and selections for admission will be made based on the performance of the candidates in the interview, also considering the weightage for their JRF qualification in accordance with the following schedule :

- i) First week of October 2011**
- ii) First week of January 2012**
- iii) First week of April 2012**

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 stand cancelled in the case of those who are unable to submit the certificates required for admission on the date of completion of the admission formalities.

Semester-wise Registration System

In order to maintain an effective enrolment of students and their progress in their studies/research, the University has introduced a system of student registration at the beginning of each semester for all the courses offered on regular basis including part time/external/associate registration for Ph.D.

A schedule for semester-wise registration is on the next page to the inside page of the back cover 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./M.Sc./Ph.D.), are required to clear their dues of the earlier semester/s in all respects before registering for the following semester of the course.

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

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

Implementation of Credit System for all the courses

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

General

1) Before filling the Application Form and the Basic Data Form, candidates are advised to read the instructions carefully and complete the form accordingly, particularly about their performance in the qualifying degree or earlier examinations. This is necessary since the performance of the candidates in the qualifying degree and earlier examinations shall be used in determining relative positions

in the merit list for those candidates who secure the same marks in the written test.

2) The last date for receiving the completed applications for admissions for the July session is **May 6, 2011**. Applications received after the closing date will not be considered. *For further details, please refer to the "Instructions to the Candidates for filling the application form".*

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

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

Hall Tickets for the Entrance Examinations:

a) The Hall Tickets will be made available for downloading on the University website by 20th May, 2011. The University will not send the hall tickets by post as was done in the previous years.

b) The candidates are required to download the hall tickets and appear for the examination at the centre opted for. **Candidates will not be permitted to write the entrance exam at any other centre except the centre mentioned in the hall tickets downloaded.**

c) It may be noted that all those who apply may be issued Hall Tickets without verifying whether or not they satisfy the eligibility criterion for admission to a course. This will be examined at the time of final

admission, if granted. The candidates are therefore advised to go through the Prospectus-cum-application 2011-2012 carefully and judge their eligibility before submitting their application forms. Despite this caution, in case the candidates do not meet the minimum eligibility criteria and still apply for the entrance examination, they will do so at their own risk and cost. Mere issue of Hall Ticket and allowing a candidate for entrance exam including interview / practical test will not entitle a candidate for any claim on admission if she/he does not fulfil the required eligibility conditions for admission as prescribed in the Prospectus-cum-application form 2011-12. This will be thoroughly verified at the time of admission, if granted. At any stage if it is found that any candidate does not fulfill the minimum eligibility requirements, the admission if granted, shall be cancelled forthwith.

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

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

List of Examination Centres

S.No.	Centre	Code	Venue
1.	Ahmedabad	AHM	School of Sciences, Gujarat University, Navrangpura, Ahmedabad – 380 009 – Gujarat
2.	Aizawl	AIZ	Life Science Block, Pachhunga University College, Aizawl, Mizoram 796 001
3.	Bangalore	BAN	Rashtreeya Vidyalaya Teachers College, Jayanagar, Bangalore – 560 011
4.	Bhubaneswar	BNR	Department of Political Science, Old Arts Block, Utkal University, Bhubaneswar 751004
5.	Bhopal	BPL	University Institute of Technology, Barkatullah University, Hoshangabad Road, Bhopal – 462026 (MP)
6.	Chennai	CNI	Chandrashekar Hall, The Institute of Mathematical Sciences, 4 th Cross Road, CIT, Campus, Taramani, Chennai 600 113
7.	Cochin	CHN	Department of Polymer Science & Rubber Technology, Cochin University of Science & Technology, Kochi – 682 022
8.	New Delhi	DEL	Faculty of Engineering & Technology, Jamia Millia Islamia, Maulana Mohammed Ali Jauhar Marg, New Delhi – 110 025
9.	Dimapur	DIM	Dimapur Government College, Oriental Colony, Dimapur – 797112, Nagaland.
10.	Dharwad	DWD	University College of Law, College Road, Dharwad – 580 001, Karnataka State
11.	Guwahati	GHT	Arts Building, Gauhati University, Guwahati - 14
12.	Hyderabad	HYD	University of Hyderabad Campus, Gachibowli, Hyderabad – 500 046
13.	Jammu	JAM	Government Gandhi Memorial Science College, Canal Road, Jammu
14.	Karimnagar	KAR	S.R.R. Government Degree & PG College, Jagtial Road, Karimnagar 505001
15.	Kolkatta	KOL	Amunity Centre, 2 nd floor, (Training & Placement Dept.), Jadavpur University, Kolkatta – 700032
16.	Lucknow	LCK	School for Ambedkar Studies (SAS), Babasaheb Bhimrao Ambedkar University, Vidya Vihar, Raibareli Road, Lucknow - 226025
17.	Madurai	MDR	School of Historical Studies, Madurai Kamaraj University Palkalai Nagar, Madurai – 625 021
18.	Nagpur	NPR	Laxminarayna Institute of Technology L.I.T.), Opp. Bharat Nagar, Amaravati Road, Nagpur 440033 (M.S.)
19.	Pune	PNE	Arts Faculty Building, Near Golay Hall, Class Room No.4 & 5, University of Pune, Pune.
20.	Patna	PAT	B.N.College, Ashok Rajpath, Patna - 800004
21.	Raipur	RPR	College of Agriculture, NH-6, Mahasamund Road Krishak Nagar, Jora, Raipur (CG)
22.	Ranchi	RNC	Multipurpose Examination Hall, Morhabadi Campus, Ranchi University, Ranchi
23.	Srinagar	SNR	Examination Block, University of Kashmir, Srinagar - 190006
24.	Tirupathi	TPT	Sri Govinda Raja Swamy Arts College, Tiruchanoor Road, Tirupati - 517502
25.	Vijayawada	VIJ	P.B.Siddhartha College of Arts & Science, Mogalrajpuram, Siddhartha Nagar, Vijayawada – 520 010
26.	Visakahapatnam	VSP	School of Distance Education, Near Outgate, Andhra University, Visakhapatnam.

- Note : (1) The University reserves the right to cancel any of these centers and allot another nearer centre to the applicants of the Centre cancelled.
- (2) If any of the examination/s could not be held in any of the session/s due to sudden declaration of bandhs, hartals, etc. at any of the above centres, the University shall not be held responsible for the same and fresh examination /s at such centres for the year will not be held again under any circumstances. However, the entrance examination fees paid by the candidates opted for such centres for whom the examination / s were disturbed and could not be held will be refunded.
- (3) Based on the number of candidates, the venues at the centres may be increased

Fees Payable by Students (Indian Nationals) admitted during 2011-2012

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

(1)	(2)	(3)		(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
		(a)	(b)												
IMA, M.A. Courses in Humanities & Social Sciences	240	250	--	385	--	200	150	120	175	330	700	65	2615	1100	3715
M.Sc. Maths/Statistics/Physics M.P.A Dance/Theatre Arts M.F.A Painting/ Print Making/ Sculpture/ Art History/ Adv.P.G. Diploma In Folk Culture Stud.	240	250	--	385	660	200	150	120	175	330	700	65	3275	1320	4595
M.Sc. Biotechnology	240	250	--	2630	1275	200	150	120	175	330	700	65	6135	1320	7455
5 – Year Int. M.Sc. in Optometry & Vision Sciences, Nursing Sciences	240	250	5500 *	6710	1165	200	150	120	275	330	700	65	15705	1980	17685
M.Sc. Animal Biotechnology	240	250	4950**	385	660	200	150	120	175	330	700	65	8225	1980	10205
M.Sc. Chemistry/ Biochemistry /Plant Biology & Biotechnology, Molecular Microbiology, I.M.Sc. (Sciences)/ Health Psychology	240	250	--	385	660	200	150	120	175	330	700	65	3275	1980	5255
M.Sc. Health Psychology	1605	250	5500**	1250	1275	200	220	120	175	330	700	65	11690	1980	13670
M.C.A.	240	250+14300	--	7920	2145	200	150	120	175	330	700	65	26595	1320	27915
M.B.A.	2145	250 + 14300	--	16465	4290	200	150	120	175	330	700	65	39190	2805	41995
M.B.A. Health Care and Hospital Management	2220	250 + 17600	--	22000	5500	200	220	120	275	330	700	65	49480	2640	52120
P.G. Diploma in Health Fitness and Life Style Management	240	250	--	6820	2200	200	220	120	275	330	700	65	11420	1980	13400
M.A. Communication	240	250	4950*	385	1320	200	150	120	175	330	700	65	8885	1320	10205
P.G. Diploma in Counseling Psychology	240	250	--	385	1320	200	150	120	175	330	700	65	3935	1320	5255
M.Tech (CS / AI / IT)	240	250+14300	--	7865	2145	200	220	120	275	330	700	65	26710	1320	28030
M.Phil Courses in Humanities and Social Sciences/ Gender Studies	240	250	--	605	--	200	220	120	275	330	700	65	3005	1320	4325

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

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

Mess deposit to be paid at the time of Hostel admission

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

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

Fees payable by the Foreign National/NRI students

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

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

**Minimum qualifications for admission to various courses
and schedule for the entrance examinations during the year 2011-12**

5-year Integrated Master's degree courses

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
I.M.Sc. in Sciences	Mathematical Sciences/ Physics/ Chemical Sciences/ Systems Biology	64	With a minimum of 60% marks at +2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent) with Science subjects Note: The candidates who have come from KVPY, Science Olympiad (those who have atleast attended the training programme), and IIT JEE main list qualified candidates may be exempted from the written test. They may be given in lieu of the written test marks, equal to the average of the first 64 students from our entrance examination. First Rankers of different State/Central Boards at +2 level will also be exempted from the written test.	7.6.2011 10.00 a.m.	9.7.2011 to 11.7.2011 10.00 a.m.
I.M.A. in Humanities	Languages (Hindi, Telugu, Urdu)/Language Sciences,	74	With a minimum of 60% marks at +2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent)	4.6.2011 10.00 a.m.	--
I.M.A. in Social Sciences	Economics/History/ Political Science/ Sociology/ Anthropology	74	With a minimum of 60% marks at +2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent)	7.6.2011 2.00 p.m.	--
I.M.Sc.	Health Psychology	12	With a minimum of 60% marks at +2 level of education or equivalent (Intermediate/ CBSE/ ICSE/ HSC or equivalent) in Arts and Sciences	2.6.2011 10.00 a.m.	7.7.2011 10.00 a.m.
I.M.Sc.	Optometry and Vision Sciences	20	With a minimum of 60% aggregate marks in Intermediate/CBSE/ICSE/HSC or equivalent Board Examination with Science subjects	6.6.2011 2.00 p.m.	7.7.2011 10.00 a.m.
I.M.Sc.	Nursing Sciences	20	With a minimum of 60% aggregate marks in Intermediate/CBSE/ICSE/HSC or equivalent Board Examination with Science Subjects	4.6.2011 2.00 p.m.	8.7.2011 10.00 a.m.

Postgraduate courses

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of interview
M.Sc.	Mathematics/ Applied Mathematics	40	Bachelor's degree with a minimum of 60% marks in the aggregate of optional subjects with Mathematics/ Statistics as one of the subjects; OR with at least 55% of marks for those students who have done B.A./B.Sc. (Hons) course in Maths / Statistics	2.6.2011 2.00 p.m.	6.7.2011 & 7.7.2011 10.00 a.m.
M.Sc.	Statistics-OR	20	Same as above	1.6.2011 2.00 p.m.	6.7.2011 & 7.7.2011 10.00 a.m.
M.Sc.	Physics	45	B.Sc. with a minimum of 60% marks in the aggregate of science subjects with Physics as one of the main subjects in combination with Mathematics OR with atleast 55% marks in B.E./B.Tech. degree with a minimum of 60% in the aggregate of science related subjects: Physics, Mathematics and Electronics.	4.6.2011 2.00 p.m.	6.7.2011 & 7.7.2011 10.00 a.m.
M. Sc.	Chemistry	45	B.Sc. with a minimum of 60% marks in the aggregate of Science subjects with Chemistry as one of the subjects, preferably in combination with Physics and Mathematics	5.6.2011 2.00 p.m.	--
M.Sc.	Biochemistry	26	B. Sc. With a minimum of 60% marks in the aggregate of Science subjects with Chemistry or Biochemistry as one of the subjects	1.6.2011 2.00 p.m.	--
M.Sc.	Plant Biology & Biotechnology	18	B. Sc. With a minimum of 60% marks in the aggregate of Science subjects with at least one of the following subjects: Chemistry, Botany, Genetics, Microbiology, Biochemistry, Biotechnology.	6.6.2011 10.00 a.m.	--
M.Sc.	Molecular Microbiology	12	B. Sc. With a minimum of 60% marks in the aggregate of Science subjects with at least one of the following subjects : Zoology, Genetics, Biotechnology, Biochemistry, Botany, Microbiology, Life Sciences.	1.6.2011 10.00 a.m.	--

M.Sc.	Animal Biotechnology	18	B. Sc. with a minimum of 60% marks in the aggregate of Science subjects with at least one of the following subjects: Zoology, Genetics, Biotechnology, Biochemistry, Botany, Microbiology, Life Sciences.	2.6.2011 10.00 a.m.	--
M.Sc.	Biotechnology*	15*	Bachelor/s degree in Physical, Biological, Agricultural, Veterinary and Fishery Sciences, Pharmacy, Engineering/Technology, 4 years B.Sc. (Physician Assistant Course) or medicine (MBBS) or BDS with atleast 55% marks	--	--
M.Sc.	Health Psychology	08	Bachelor's degree with atleast 60% marks in aggregate in any discipline with Psychology as one of the subjects for three years	3.6.2011 10.00 a.m.	8.7.2011 10.00 a.m.
M.C.A.		60	Bachelor's degree with at least 60% marks in aggregate, in any discipline with mathematics as a compulsory subject at the Higher Secondary (10+2) level.	5.6.2011 10.00 a.m.	--

* The admissions will be based on the allotment made by Jawaharlal Nehru University (JNU), New Delhi which will conduct a common entrance test on 20.5.2011.

- Note:** 1. For calculating the prescribed percentage of marks for admission to M.Sc./MCA courses the marks obtained in the language papers of the qualifying degree will be excluded.
2. The marks in Hons/Core subjects of B.A. (Hons), B.Sc. (Hons) degrees will only be taken into account for calculating the prescribed percentage of marks.

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
M.A.	English	45	At least 50% marks in the Bachelor's degree with at least 50% marks in English as optional subject; OR at least 50% marks in the Bachelor's degree with at least 55% marks in English as compulsory subject.	4.6.2011 10.00 a.m.	--
M.A.	Philosophy	23	Bachelor's degree in any subject/s with at least 50% marks in aggregate.	6.6.2011 10.00 a.m.	--
M.A.	Hindi	38	With at least 50% marks in the Bachelor's degree with at least 50% marks in Hindi as optional (Elective) subject; OR with at least 50% marks in the Bachelor's degree with at least 55% marks in Hindi as compulsory Language subject (second language). Note: <i>Bachelor Degree holders who do not possess 55% marks in compulsory (Second language) Hindi or 50% marks in optional (elective) Hindi will also be considered for admission provided they pass the certificate examination with 50% marks (equivalent to B.A. in Hindi) approved by the Government of India.</i>	3.6.2011 10.00 a.m.	--
M.A.	Telugu	45	With at least 50% marks in the Bachelor's degree with at least 50% marks in Telugu as optional subject; OR with at least 50% marks in the Bachelor's degree with at least 55% marks in Telugu as the compulsory subject.	6.6.2011 2.00 p.m.	--
M.A.	Urdu	25	With at least 50% marks in the Bachelor's degree or equivalent with at least 50% marks in Urdu, Persian or Arabic as optional papers; OR Bachelor's degree or equivalent with at least 55% marks in Urdu, Persian or Arabic as compulsory subject i.e. as second language.	6.6.2011 2.00 p.m.	--
M.A.	Applied Linguistics	23	At least 50% marks in the Bachelor's degree with at least 50% marks in Linguistics / any language as an optional/honours subject; OR with at least 55% marks in the Bachelor's degree in any other discipline.	3.6.2011 2.00 p.m.	--
M.A.	Comparative Literature	10	50% marks in the Bachelors degree with at least 50% marks in English as optional subject; OR 50% marks in Bachelors degree with 55% marks in any literature subject/ English as Compulsory subject.	1.6.2011 2.00 p.m.	--

M. A.	Economics	60	With at least 50% marks in the Bachelor's degree and at least 50% marks in Economics; OR Bachelor's degree with at least 60% marks in any of the allied subjects viz. Commerce, Statistics, Mathematics, Engineering or any of the Social Sciences subjects.	3.6.2011 2.00 p.m.	--
M.A.	History	52	With at least 50% marks in the Bachelor's degree and at least 50% marks in History; OR with at least 50% marks in the Bachelor's degree and at least 55% marks in aggregate in the allied subjects viz. Political Science, Public Administration, Economics, Sociology, Anthropology, Indology, Archaeology, Ancient Indian History and Culture ; OR Bachelor's degree in any subject(s) with at least 60% marks in aggregate.	3.6.2011 10.00 a.m.	--
M.A.	Political Science	52	Bachelor's degree with atleast 50% marks OR Equivalent Grade in Social Sciences or Humanities subjects OR 55% marks in any other subjects.	6.6.2011 10.00 a.m.	--
M.A.	Sociology	52	With at least 50% marks in the Bachelor's degree and at least 50% marks in the subject concerned OR with at least 50% marks in the Bachelor's degree and at least 55% marks in aggregate in the allied subjects viz., all Social science subjects, Philosophy, Communication, Linguistics; OR Bachelor's degree in any subject (s) with 60% marks in aggregate.	6.6.2011 2.00 p.m.	--
M.A.	Anthropology	30	With at least 50% marks in the Bachelor's degree in Social Sciences / Humanities / Commerce subjects OR Bachelor's degree with at least 55% marks in any other subject.	2.6.2011 2.00 p.m.	--
Adv. PG Diploma	Folk Culture Studies	19	Any Master's degree with a minimum of 55% aggregate Marks in Social Sciences, Humanities, Fine Arts, Performing Arts and Communication	7.6.2011 2.00 p.m.	--
P.G. Diploma	Counseling Psychology	22	Master's Degree with at least 50% marks in aggregate in Psychology/Social Work, Sociology, Home Science and Nursing or MBBS	2.6.2011 10.00 a.m.	6.7.2011 10.00 a.m.
P.G. Diploma	Health Fitness & Life Style Management	30	Bachelor's degree in any subject	4.6.2011 2.00 p.m.	6.7.2011 & 7.7.2011 10.00 a.m.

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

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

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

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
M.P.A.	Dance (Kuchipudi) (Bharata-natyam)	06 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. <i>(The experience/training certificate should be furnished during the practical test.)</i> OR A candidate with 10+fulltime 4 year diploma / certificate from a nationally recognized institution + 1 year practical work in the same institution; OR A candidate with 10+2+fulltime 3 year diploma from a nationally recognized institution.	2.6.2011 10.00 a.m.	6.7.2011 10.00 a.m.
M.P.A.	Dance (Folk)	06	Bachelor's 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).	2.6.2011 10.00 a.m.	6.7.2011 10.00 a.m.
M.P.A.	Theatre Arts	23	Bachelor's degree in any subject with an aptitude for theatre which will be tested at the time of viva.	1.6.2011 10.00 a.m.	6.7.2011 10.00 a.m.
M.F.A.	Painting Print making Sculpture	14 08 08	Bachelor's degree in Painting / Printmaking / Sculpture	6.6.2011 2.00 p.m.	6.7.2011 & 7.7.2011 10.00 a.m.
M.F.A.	Art History	08	BA/BFA/BVA/BPA in subjects of Arts, Humanities or Social Sciences with 55% marks. Bachelor's degree in Fine Arts, Visual Arts, Architecture, Applied are eligible to apply, with a minimum of 55% marks. Students from design, film and media studies, Performing Arts, humanities and Social Sciences will also be considered. All candidates must demonstrate adequate linguistic and interpretative skills in English and another Indian language to demonstrate conceptual thinking capacity.	4.6.2011 10.00 a.m.	8.7.2011 10.00 a.m.
M. A.	Communi- cation	40*	Bachelor's degree with at least 55% marks in Communication / Journalism; OR Bachelor's degree in any subject with at least 55% marks in aggregate. * Communication & Media Studies 10 Print Journalism & New Media 15 Television & Radio 15	1.6.2011 10.00 a.m.	6.7.2011 to 8.7.2011 10.00 a.m.
MBA	Health Care & Hospital Management	20	Three or four year Bachelor's degree with a minimum of 60% marks or equivalent grade of any University recognized by AIU/AICTE. Preference will be given to those who have an academic background/experience relating to health care management/administration areas.	7.6.2011 2.00 p.m.	7.7.2011 8.7.2011 10.00 a.m.
MBA**		60	A three year Bachelor's degree (or its equivalent) in any discipline recognized by the Association of Indian Universities/AICTE, obtained before July 2011.	--	--

** The admission process of candidates into MBA for the year 2011-12 has been completed based on the percentile scores of the applicants in CAT 2010 followed by Group Discussion/Interview.

M.Tech. Courses

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
M.Tech	Computer Science	45+5*	With a minimum of 60% marks in the Bachelor's degree examination in Engineering/Technology (B.E./B.Tech); OR MCA or M.Sc in (Computer Science/Information Sciences/Electronics) GATE scores in Computer Science and Information Technology and in order of merit, will be the only criteria for admission. (No entrance examination or any interview will be conducted).	--	--
	Artificial Intelligence	30+5*			
	Information Technology	30+5*			
M.Tech.	Computational Techniques	23	With at least 55% marks in the Master's degree in Physics or a closely related area with at least one computer related course either in M.Sc. or more than one computer course at the B.Sc. level. Note: Valid GATE scores in the order of merit in Physics or qualified in UGC-CSIR NET for JRF will be the criterion for short listing candidates for interview. No written test will be conducted.	--	8.7.2011 & 9.7.2011 10.00 a.m.
M.Tech.	IC Technology	15	With at least 55% marks in the Master's degree in Electronics, or in Physics with Electronics Specialization OR B.E. / B.Tech., with a minimum of 60%, with Electronics as one of the subjects Note: Valid GATE scores in the order of merit, in one of the following: (1) Electronics and Communication Engineering (2) Instrumentation Engineering (3) Physics will be the criterion for short listing candidates for interview. No written test will be conducted.	--	8.7.2011 & 9.7.2011 10.00 a.m.
M.Tech.	Bioinformatics	23	Masters degree with a minimum of 55% aggregate marks in Biological or Agricultural or Physical or Chemical sciences OR Statistics or Mathematics or computer sciences or B.Pharmacy, B.Tech with a minimum of 60% marks.. Candidates will be short-listed in two categories Biotechnology and Non-Biotechnology subjects based on the GATE scores obtained in respective subjects. The admission is based on the performance of the candidates in Computer Sciences, Mathematical Sciences, Physical Sciences and Biological Sciences in a comprehensive interview.	--	8.7.2011 10.00 a.m.
M.Tech.	Mineral Exploration	10+5*	With at least 55% Marks in the Masters degree in any branch of Science with Mathematics as one of the subjects at the B.Sc. level.	6.6.2011 2.00 p.m.	6.7.2011 10.00 a.m.
Adv. PG Diploma	Mineral Exploration	10+5*	With at least 55% Marks in the Masters degree in any branch of Science with Mathematics as one of the subjects at the B.Sc. level.	6.6.2011 2.00 p.m.	6.7.2011 10.00 a.m.s

* Sponsored seats

M.Phil. Courses

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
M.Phil.	English	15	Master's degree in English with at least 55% marks	4.6.2011 10.00 a.m.	6.7.2011 & 7.7.2011 10.00 a.m.
M.Phil.	Philosophy	14	Master's degree in Philosophy with at least 55% marks	4.6.2011 2.00 p.m.	6.7.2011 10.00 a.m.
M.Phil.	Hindi	23	Master's degree in Hindi with at least 55% marks	4.6.2011 2.00 p.m.	6.7.2011 10.00 a.m.
M.Phil.	Telugu	20	Master's degree in Telugu with at least 55% marks	4.6.2011 2.00 p.m.	6.7.2011 10.00 a.m.
M.Phil.	Urdu	30	Master's degree in Urdu with at least 55% marks	4.6.2011 2.00 p.m.	6.7.2011 10.00 a.m.
M.Phil.	Applied Linguistics	09	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 post-graduate 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.	3.6.2011 2.00 p.m.	6.7.2011 10.00 a.m.
M.Phil.	Translation Studies	09	Master's degree in any subject with a minimum of 55% marks with proficiency in two languages reflected either in previous qualification or at the entrance examination for this M. Phil.	6.6.2011 10.00 a.m.	7.7.2011 10.00 a.m.
M.Phil.	Comparative Literature	08	Master's degree in Comparative Literature with at least 55% marks; OR Master's degree in any language / literature / related discipline with at least 55% marks. Whatever the M.A., the candidate must present documentary evidence of knowledge of at least two literatures / languages.	2.6.2011 2.00 p.m.	8.7.2011 10.00 a.m.
M.Phil.	Shabdabodha Systems and Language Technologies	05	Master's Degree in Sanskrit or equivalent with at least 55% marks	3.6.2011 10.00 a.m.	9.7.2011 10.00 a.m.
M.Phil.	Economics	30	Master's degree in Economics, OR any of the allied subjects with at least 55% of marks. (Allied subjects : Applied Economics, Statistics, Mathematics, Agricultural Economics, Applied Statistics, Operations Research, Econometrics, Applied Econometrics, Mathematical Economics, Quantitative Economics, Business Economics, Financial Economics, Commerce and Management and Engineering)	1.6.2011 2.00 p.m.	6.7.2011 10.00 a.m.
M.Phil.	History	14	Master's degree in History with at least 55% marks or equivalent grade; OR Master's degree in allied subjects with at least 60% marks or Equivalent Grade (Allied subjects: Political Science, Public Administration, Economics, Sociology, Anthropology, Indology, Archaeology, Ancient Indian History and Culture, Literature, Religious Studies, Environmental Studies and Science Policy.)	6.6.2011 10.00 a.m.	6.7.2011 10.00 a.m.
M.Phil.	Political Science	15	Master's degree in Political Science or Public Administration or in any Social Science subjects including Humanities with at least 55% marks or Equivalent Grade	4.6.2011 2.00 p.m.	6.7.2011 10.00 a.m.
M.Phil.	Sociology	10	Master's degree in Sociology or Social Anthropology with at least 55% marks.	4.6.2011 2.00 p.m.	6.7.2011 10.00 a.m.
M.Phil.	Anthropology	08	Master's degree in Anthropology with at least 55% marks; OR Master's degree in an allied subject with at least 60% marks (Allied subjects: Sociology, Social Work, Social & Preventive Medicine, History, Political Science, Economics, Archaeology, Linguistics, Environmental Sciences and Development Studies including Rural and Regional Development)	4.6.2011 10.00 a.m.	8.7.2011 10.00 a.m.
M.Phil.	Regional Studies	06	Master's degree with at least 55% marks or equivalent grade in any of the Social Science subjects.	2.6.2011 2.00 p.m.	9.7.2011 10.00 a.m.
M.Phil.	Social Excl. & Incl. Policy	12	Master's degree with at least 55% marks in any of the Social Science or Humanities subjects.	1.6.2011 10.00 a.m.	8.7.2011 10.00 a.m.
M.Phil.	Indian Diaspora	06	Master's degree in any subject in Social Sciences or Humanities with at least 55% of marks. Also should have some exposure to migration and diaspora studies either in the form of a course in Indian diaspora during their M.A. degree or have some research experience.	3.6.2011 2.00 p.m.	8.7.2011 10.00 a.m.
M.Phil.	Cognitive Science	08	Master's degree in any discipline in humanities or social or natural sciences with at least 55% marks.	1.6.2011 10.00 a.m.	9.7.2011 10.00 a.m.
M.Phil.	Gender Studies	10	Master's degree with a minimum of 55% marks in aggregate in Social Sciences , Humanities, Management, Natural sciences, Performing Arts and Communication.	6.6.2011 2.00 p.m.	10.7.2011 10.00 a.m.

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
M.Tech./ Ph.D	Materials Engineering	16	BE/B.Tech., or equivalent degree in Metallurgy, Mechanical/Production/ Manufacturing Engineering, Materials Engineering, Chemical Engineering, Ceramic Engineering/Technology, Polymer Engineering/Technology or Engineering Physics OR B.Sc. or equivalent degree with Mathematics, Physics & Chemistry followed by AMIE in Chemical Engineering, Materials& Metallurgical Engineering, Mechanical Engineering, Production Engineering or AMIIM (Metallurgical/Materials) OR Diploma in Mechanical Engineering, Metallurgical Engineering, and Production Engineering followed by AMIE in Chemical Engineering, Materials and Metallurgical Engineering, Mechanical Engineering, Production Engineering or AMIIM OR Master's degree in Physics, Chemistry, or Materials Science <i>Candidates should have at least 60% marks in the respective qualifying exam.</i>	7.6.2011 2.00 p.m.	6.7.2011 10.00 a.m.
M.Tech./ Ph.D.	Nano Science & Technology	12	B.E./B.Tech. or equivalent degree in Metallurgy, Mechanical/Production/ Manufacturing Engineering, Materials Engineering, Mining Engineering, Chemical Engineering, Ceramic Engineering/ Technology, Polymer Engineering/ Technology, Nano Science and Engineering/Technology or Engineering Physics OR B.Sc. or equivalent degree with Mathematics, Physics, & Chemistry followed by AMIE in Chemical Engineering, Materials & Metallurgical Engineering, Mining Engineering, Mechanical Engineering, Production Engineering or AMIIM OR Diploma in Mechanical Engineering, Metallurgical Engineering, Mining Engineering and Production Engineering followed by AMIE in Chemical Engineering, Material and Metallurgical Engineering, Mining Engineering, Mechanical Engineering, Production Engineering or AMIIM OR Master's degree in Physics, Chemistry, Geology, Mineral Processing or Materials Science. <i>Candidates should have atleast 60% marks in the respective qualifying exam.</i>	7.6.2011 10.00 a.m.	8.7.2011 10.00 a.m.

Ph.D. programmes

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
Ph. D.	Mathematics/ * Applied Maths/	06	Master's degree in concerned or related subjects with at least 55% marks or equivalent grade with CSIR/UGC NET for JRF/NBHM fellowship.	--	8.7.2011 10.00 a.m.
Ph.D.	Statistics/OR *				8.7.2011 2.00 p.m.
Ph. D.	Computer Science	12	Masters Degree in any Engineering/Technology; OR M.Phil. in Mathematics or Statistics or Electronics; OR in BE/B.Tech.; OR Master's degree in Computer Applications / Mathematics / Statistics / Electronics / Information Systems / Internet Technology / GeoInformatics / BioInformatics with a minimum of 60% marks in the above stated qualifications	4.6.2011 10.00 a.m.	6.7.2011 & 7.7.2011 10.00 a.m.
Ph. D.	Physics	30	M.Sc. degree with at least 55% marks in Physics or a closely related area and CSIR-UGC NET with JRF CSIR-UGC NET qualified candidates for JRF will only be short listed for interview for admission during 2011-2012. There will be no written test.	--	10.7.2011 & 11.7.2011 10.00 a.m.
Ph.D.	Electronics Science	06	M.Sc. degree with at least 55% marks in Electronics or Physics OR B.E. / B. Tech. degree with a minimum of 60% marks, with Electronics as one of the subjects. GATE score in Physics/ECE or UGC-CSIR with JRF qualification in Physics or Electronics will only be short listed for interview for admission during 2011-2012. There will be no written test.	--	10.7.2011 & 11.7.2011 10.00 a.m.

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
Ph. D.	Chemistry *	34	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.)	--	6.7.2011 to 8.7.2011 10.00 a.m.
Ph.D.	Biochemistry *	06	Master's degree in Biochemistry or in a closely related area with at least 55% marks OR an M.B.B.S. degree with a minimum of 55% marks.	--	7.7.2011 10.00 a.m.
Ph.D.	Plant Sciences *	18	Master's degree in Plant Sciences or in a closely related area with at least 55% marks with CSIR/UGC. DBT or ICMR JRF	--	8.7.2011 10.00 a.m.
Ph. D.	Animal Sciences	09	Master's degree in Animal Sciences or in area of Life Sciences with atleast 55% marks; OR M.Pharm, M.V.Sc. degree with a minimum of 55% marks.	3.6.2011 2.00 p.m.	9.7.2011 10.00 a.m.
Ph.D.	Biotechnology	06	Master's degree in Biotechnology or in a closely related area with atleast 55% marks OR an M.B.B.S., M.Tech., M.Pharm, M.V.Sc., with a minimum of 55% marks	1.6.2011 10.00 a.m.	10.7.2011 10.00 a.m.
Integrated M.Sc./ Ph.D.	Biotechnology	06	Bachelor degree in Physical and Biological Sciences, Pharmacy, Engineering/Technology, MBBS with 60% marks. Degree should be awarded within 2 years from the year of examination	1.6.2011 10.00 a.m.	11.7.2011 10.00 a.m.
Ph.D.	Medical Sciences	5	Masters degree in Biochemistry/Animal Sciences/ Biotechnology/ Biosciences/ Toxicology/ Microbiology/ M.Pharm/ M.Sc. (Optometry/Nursing)/ MBBS/MD/ are related fields may be eligible to apply. Candidates having MBBS/MD are highly encouraged to apply for Ph.D. Note: NET qualified candidates for JRF (CSIR, UGC and ICMR) will only be shortlisted for interview for admission during 2011-12. (There will be no written test)		
Ph.D.	ACRHEM: Chemistry Mathematics	5 2	Same as above in the case of Ph.D. Mathematics/ Applied Maths/Statistics/OR, Computer Science; Physics/ Electronics Science; and Chemistry	2.6.2011 10.00 a.m.	10.7.2011 10.00 a.m.
Ph.D.	High Performance Computing **	03	Minimum qualifications for admission will be as per the stipulations for the doctoral programmes by the respective Schools/Departments/Centres including the Schools of Life Sciences, Chemistry, Physics, Mathematics/Computer Science, Engineering Sciences and Technology, University Centre for Earth and Space Sciences, and Advanced Centre of Research in High Energy Materials.	--	6.7.2011 10.00 a.m.
Ph.D.	Neural and Cognitive Sciences	03	Master's degree in any discipline in humanities or social or natural sciences with at least 55% marks.	1.6.2011 10.00 a.m.	9.7.2011 2.00 p.m.

Note: 1. The approved intake for Ph.D. is expected to be filled over four sessions in July 2011, October 2011, January 2012, and April 2012. Therefore, all the seats need not necessarily be filled in July 2011 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.

Note: * CSIR-UGC NET qualified candidates for JRF will only be shortlisted for interview for admission during 2011-12. (There will be no written test).

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

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
Ph. D.	English	05	M. Phil degree in the subject concerned and Master's degree in the subject concerned with at least 55% marks; OR Master's degree in the subject concerned with at least 55% marks with two years teaching experience in a degree college or two years of teaching/research experience in the subject concerned in a University department or a recognised institute of higher learning or qualified in UGC JRF; OR Master's degree with at least 60% marks in any subject with 2 years of teaching experience in a degree college or two years of teaching/research experience in the subject concerned or closely related area in a University department or recognized institute of higher learning or a minimum of 3 publications in a recognized refereed journal in the subject in which admission is sought.	3.6.2011 10.00 a.m.	8.7.2011 10.00 a.m.
Ph.D.	Dance	03	Same as above Note: The concerned subjects are Dance and related areas.	2.6.2011 10.00 a.m.	7.7.2011 10.00 a.m.
Ph.D.	Communi- Cation	04	Same as above Note: The concerned subjects are Communication or Journalism.	1.6.2011 2.00 p.m.	9.7.2011 10.00 a.m.
Ph.D.	Theatre Arts	04	Master's degree or equivalent in the subject concerned with at least 55% marks with practical experience in three major productions after the Master's programme OR Master's degree in the subject concerned with at least 55% marks with two years teaching experience in a degree college or two years of teaching/research experience in the subject concerned in a University department or a recognised institute of higher learning or qualified in UGC JRF; OR Master's degree with at least 60% marks in any subject with 2 years of teaching experience in a degree college or two years of teaching/research experience in the subject concerned or closely related area in a University department or recognized institute of higher learning or a minimum of 3 publications in a recognized refereed journal in the subject in which admission is sought. Note: The concerned subjects are Theatre Arts.	1.6.2011 2.00 p.m.	6.7.2011 2.00 p.m.
Ph. D.	Philosophy	09	M. Phil degree in the subject concerned and Master's degree in the subject concerned with at least 55% marks; OR Master's degree in the subject concerned with at least 55% marks with two years teaching experience in a degree college or two years of teaching/research experience in the subject concerned in a University department or a recognised institute of higher learning or qualified in UGC National level test for JRF/or for Lectureship; OR Master's degree in any subject with 2 years of teaching experience in a degree college or two years of teaching/research experience in the subject concerned or closely related area in a University department or recognised institute of higher learning or a minimum of 3 publications in a recognised refereed journal in the subject in which admission is sought.	4.6.2011 10.00 a.m.	7.7.2011 10.00 a.m.
Ph. D.	Hindi	14	Same as above	4.6.2011 10.00 a.m.	7.7.2011 10.00 a.m.
Ph.D	Telugu	12	Same as above	4.6.2011 10.00 a.m.	7.7.2011 10.00 a.m.
Ph. D.	Urdu	14	Same as above	2.6.2011 2.00 p.m.	7.7.2011 10.00 a.m.
Ph.D.	Comparative Literature	04	M.Phil. degree in Comparative Literature or related disciplines. OR Master's degree in the subject concerned / or related disciplines with at least 55% marks with two years of teaching experience in a degree college or two years of teaching / research experience in the subject concerned in a university department or a recognized institute of higher learning or qualified in UGC JRF. <i>Note: The concerned subject is Comparative Literature / English / Indian Language / Literature / Liberal Arts / Social Sciences & Communication. Furthermore a candidate without any earlier Comparative Literature degree must present documentary evidence of knowledge of at least two literatures / languages. The medium of instruction is English.</i>	4.6.2011 2.00 p.m.	8.7.2011 2.00 p.m.

- Note:
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 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.

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
Ph.D.	Economics	23	M.A. in the subject concerned (with at least 55% marks) or Equivalent Grade Or Masters degree in the allied subjects(as mentioned for M.Phil Economics) (with at least 60% marks) or Equivalent Grade with M.Phil. Degree/UGC JRF qualification /Two years of teaching/ research/ relevant administrative governance experience in the subject concerned in a recognised institution of higher learning or three publications in the subject concerned in recognised refereed journals. OR With at least 60% marks Or Equivalent Grade in Master's degree in any subject with two years teaching experience in a degree college in the subject concerned or a closely related area or two years teaching/research/relevant administrative governance 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.	1.6.2011 2.00 p.m.	7.7.2011 10.00 a.m.
Ph. D.	History	12	M.A. in the subject concerned (with at least 55% marks) or Equivalent Grade Or M.A. in allied subjects (with at least 60% marks) or Equivalent Grade with M.Phil. Degree /UGC JRF /Two years of teaching/research experience in the subject concerned in a recognised institution of higher learning or three publications in the subject concerned in recognised refereed journals. OR With at least 60% marks Or Equivalent Grade in Master's degree in any subject with two years teaching experience in a degree college in the subject concerned or a closely related area or two years teaching/research experience in the subject concerned or in a closely related area in a University Department or a recognised institute of higher learning or a minimum of three publications in recognised refereed journals in the subject in which admission is sought.	3.6.2011 10.00 a.m.	7.7.2011 10.00 a.m.
Ph. D.	Political Science	12	M.A. in the subject concerned (with at least 55% marks) or Equivalent Grade OR M.A. in allied subjects (with at least 60% marks) or Equivalent Grade with M.Phil. Degree /UGC JRF /Two years of teaching/research experience in the subject concerned in a recognised institution of higher learning or two publications in the subject concerned in recognised journals. OR With at least 60% marks Or Equivalent Grade in Master's degree in any subject with two years teaching experience in a degree college in the subject concerned or a closely related area or two years teaching/research experience in the subject concerned or in a closely related area in a University Department or a recognised institute of higher learning or a minimum of two publications in recognised refereed journals in the subject in which admission is sought. Note: The concerned subjects are Political Science or Public Administration.	4.6.2011 10.00 a.m.	7.7.2011 10.00 a.m.
Ph.D.	Regional Studies	04	M.A. in any of the Social Science subjects with at least 55% marks or Equivalent Grade Or M.A. in allied subjects (with at least 60% marks) or Equivalent Grade with M.Phil. Degree in a Social Science subject/UGC JRF/Two years of teaching/ research experience in any Social Science subject in a recognised institution of higher learning or three publications in any Social Science subject in recognised refereed journals.	2.6.2011 2.00 p.m.	9.7.2011 2.00 p.m.
Ph. D.	Sociology	08	M. Phil degree in the subject concerned and Master's degree in the subject concerned with at least 55% marks; OR Master's degree in the subject concerned with at least 55% marks with two years teaching experience in a degree college or two years of teaching/research experience in the subject concerned in a University department or a recognised institute of higher learning or qualified in UGC National level test for JRF Note: The concerned subjects are Sociology or Social Anthropology	6.6.2011 2.00 p.m.	7.7.2011 10.00 a.m.

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 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.

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
Ph. D.	Anthropology	06	M.A./M.Sc in Anthropology with a minimum 55% marks OR M.A. in allied subject with at least 60% marks; AND M.Phil degree in Anthropology or allied subjects OR UGC-JRF or equivalent qualification OR Two years of teaching/research experience in the subject concerned in a recognized institution of higher learning/degree college with three publications in recognized and referred research journals, in the subject in which admission is sought.	4.6.2011 10.00 a.m.	8.7.2011 2.00 p.m.
Ph.D.	Social Excl. Incl. Policy	03	M.A. in Social Sciences or Humanities subjects (with at least 55% marks) or equivalent Grade; OR M.A. in allied subjects (with at least 60% marks) or Equivalent Grade with M.Phil Degree/ UGC JRF or NET qualification for Lecturership / Two years of teaching/research experience in the subject concerned or three publications in the recognized refereed journals in the subject in which admission is sought.	6.6.2011 10.00 a.m.	9.7.2011 10.00 a.m.
Ph. D.	Applied Linguistics	08	M.A. in the subject concerned (with at least 55% marks) or M.A. / M.Sc. in allied subjects (with at least 60% marks) with M.Phil. Degree/UGC JRF or NET qualification for Lecturership/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 With at least 60% marks Or Equivalent Grade in Master's degree in any subject with two years teaching experience in a degree college in the subject concerned or a closely related area or two years teaching/research experience in the subject concerned or in a closely related area in a University/Department or a recognised institute of higher learning or a minimum of three publications in recognised refereed journals in the subject in which admission is sought.	1.6.2011 2.00 p.m.	6.7.2011 2.00 p.m.
Ph. D.	Translation Studies	08	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 With at least 60% marks Or Equivalent Grade in Master's degree in any subject with two years teaching experience in a degree college in the subject concerned or a closely related area or two years teaching/research experience in the subject concerned or in a closely related area in a University/ Department or a recognised institute of higher learning or a minimum of three publications in recognised refereed journals in the subject in which admission is sought.	3.6.2011 2.00 p.m.	7.7.2011 2.00 p.m.
Ph.D.	Sanskrit Studies	03	a) 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/NET/SET/SLET OR M.A. in Natural Language Processing OR PG Diploma in Computational Linguistics/ PG Diploma in Linguistics/P.G. Diploma in Manuscriptology Master's degree with at least 60% marks in any subject with 2 years of teaching experience in a degree college/Two years of teaching or research experience in the subject concerned or closely related area in a University department or recognized institute of higher learning/a minimum of 3 publications in a recognized refereed journal in the subject in which admission is sought. b) B.A.M.s. with atleast 55% marks	6.6.2011 10.00 a.m.	10.7.2011 2.00 p.m.
Ph.D	Folk Culture Studies	04	Master's degree with at least 55% marks in any of the subjects in Social Sciences, Humanities, Fine Arts, Performing Arts, and Communication with any one of the following qualifications: a) M.Phil in any of the above subjects with Folklore/Folk Culture related topic b) Qualified in UGC-NET for JRF or for Lectureship in any of the above subjects. c) 2years 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.	7.6.2011 10.00 a.m.	6.7.2011 10.00 a.m.

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 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.

Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
Ph.D.	Management Studies	12	With at least 55% marks in Master's degree or its equivalent in Management or Commerce or Accounting (MBA, M.Com, C.A, ICWA)	4.6.2011 2.00 p.m.	6.7.2011 10.00 a.m.
Ph.D.	Psychology	04	Post Graduation Degree in Psychology or allied subjects with atleast 55% marks OR Qualification in UGC JRF exam in these subjects.	3.6.2011 10.00 a.m.	9.7.2011 10.00 a.m.
Ph.D.	Earth and Space Sciences	06	Master's degree in Earth / Ocean / Atmospheric Sciences, Remote Sensing or a closely related area with atleast 55% marks	3.6.2011 2.00 p.m.	7.7.2011 2.00 p.m..
Ph.D.	Materials Engineering	08 Regular 06 External	M.E./M.Tech. or equivalent Master's degree in Metallurgy, Mechanical/Production/ Manufacturing Engineering, Materials Engineering, Mining Engineering, Chemical Engineering, Ceramic Engineering/ Technology, Polymer Engineering/ Technology or Engineering Physics OR Master's degree in Science or atleast 60% in Bachelor's degree in Engineering/Technology in any of the above disciplines <i>Candidates should have at least 60% marks in the respective qualifying exam.</i>	7.6.2011 2.00 p.m.	7.7.2011 10.00 a.m.
Ph.D.	Nano Science & Technology	4 Regular 2 External	M.E./M.Tech. or equivalent Master's degree in Metallurgy, Mechanical (Production /Manufacturing Engineering), Materials Engineering, Chemical Engineering, Ceramic Engineering/ Technology, Polymer Engineering/ Technology, Nano Science and Technology, Nano Science and Engineering, Bio-Technology, or Engineering Physics OR Master's degree in Science, or M.Sc in Physics, or M.Sc in Nano Science, at least 60% in Bachelor's degree in Engineering/Technology in any of the above disciplines. <i>Candidates should have at least 60% marks in the respective qualifying examinations.</i>	7.6.2011 10.00 a.m.	9.7.2011 10.00 a.m.
Ph.D.	Gender Studies	03	An M.A., MBA or M.Sc. in Social Sciences, Humanities, Performing Arts, Communication, Management and the Natural Sciences, with at least 55% marks, or an equivalent grade with any one of the following qualifications : 1. M.Phil degree in any of the above subjects with women's issue or gender related topics. 2. UGC JRF or NET qualification for lectureship 3. Two years of teaching/research experience in a recognized institution of higher learning 4. Minimum of three publications in a recognized, refereed Journal.	3.6.2011 2.00 p.m..	10.7.2011 2.00 p.m.
Ph.D.	Indian Diaspora	04	M.Phil degree in any subject in Social Sciences or Humanities and a Master's degree with at least 55% marks OR two years teaching experience in a degree college OR two years of teaching/research experience in the subject in migration and diaspora studies in a recognized institute of higher learning and/or research or qualified in UGC National level test for JRF. Also should have some exposure to migration and diaspora studies either in the form of a course in Indian diaspora during their M.A. degree or have some research experience.	7.6.2011 10.00 a.m.	8.7.2011 2.00 p.m.

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Course	Subject	Intake	Minimum Qualifications for admission	Date and time of written test	Date and time of Interview
Ph.D.	Science, Technology, and Society Studies	04	<p>An M.Phil degree in the area of social studies of science from the following disciplines: Sociology, Political Science, History, Economics, Anthropology and Philosophy.</p> <p>Or</p> <p>i) M.Sc. degree in any branch of science or B.E/ B.Tech degree in any branch of Engineering with 60 per cent marks; and ii) a published research paper in a peer reviewed journal in any area of social studies of science, technology and innovation to be submitted along with the application form.</p> <p>Or</p> <p>i). M.A. degree in any discipline of the social sciences or philosophy with 55 per cent marks; or M.Sc. Degree in any branch of science or B.E./B.Tech in any branch of engineering with 60 per cent marks; ii) at least three years of work experience in an industry/research organization; and iii) a sample of written work of 2000 words or a published research paper in a peer reviewed journal in any area of social studies of science, technology and innovation to be submitted along with the application form.</p> <p>Or</p> <p>i) UGC-CSIR JRF holders in any of the social science disciplines mentioned above, and Philosophy with 55 per cent marks in their M.A. degree. UGC-CSIR JRF holders in any discipline of sciences or GATE-qualified with a score above 85 percentile in any discipline of Engineering with 60 per cent in their M.Sc. degree in sciences or BE/B.Tech degree in Engineering; and ii) a sample of written work of 2000 words or a published research paper in a peer reviewed journal in any area of social studies of science, technology and innovation to be submitted along with the application form.</p>	7.6.2011 10.00 a.m.	9.7.2011 10.00 a.m.
Ph.D.	Buddhist Studies	Upto 4	<p>First class M.A. in i) Buddhist Studies OR</p> <p>ii) M.A. in Pali or iii) Ancient Indian History with PG Diploma in Archaeology iv) M.A. in Philosophy with Foundation course in Buddhism from University of Hyderabad or v) UGC JRF/NET qualification for Lectureship in Humanities/Social Science or vi) M.A. with a Buddhist related paper from a foreign university with evidence of proficiency in Pali/Sanskrit/Tibetan and in English. Weightage shall be given to the candidates with evidence of having passed the examinations such as Bali Sanam Luang conducted by Royal Government of Thailand or Dhammacariya examination conducted by Government of Myanmar</p>	2.6.2011 2.00 p.m.	6.7.2011 10.00 a.m.
Ph.D.	Gadhian Economic Thought	02	Postgraduate degree in any subject (with atleast 55% marks) or Equivalent Grade with M.Phil./UGC JRF qualification/Two years' teaching/research/relevant administrative governance experience in the subject concerned in a recognized institution of higher learning or three publications in the subject concerned in recognized refereed journals.	7.6.2011 2.00 p.m.	10.7.2011 10.00 a.m.
Ph.D.	Human Rights	02	M.A. with 55% marks in any branch of Social Sciences OR 60% marks in allied subjects (Philosophy, Psychology, Management, Education and Literature) with M.Phil. degree/ UGC JRF/two years teaching/research experience in the subject concerned in a recognized institute of higher learning or two publications in the subject concerned in recognized journals OR candidates with any branch of science with 60% marks in Masters degree with proven interest in Human Rights will also be considered (in the form of publications, research reports etc.)	2.6.2011 10.00 a.m.	9.7.2011 10.00 a.m.

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SCHOOLS OF STUDIES

School of Mathematics and Computer / Information Sciences

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

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

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

Department of Mathematics & Statistics

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

The Department offers research facilities in the following areas:

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

Programmes of Study

The Department offers M.Sc. and Ph.D. Programmes.

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

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

Entrance Examination

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

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

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

Sets, sequences, series, limits, continuity, differentiation, integration, graphs of functions, coordinate geometry of two and three dimensions, group theory, vector spaces, matrices, determinants, linear transformations, rank, nullity, eigen values, system of linear equations, elementary probability and logical reasoning.

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

- Sets, Sequences, Series, Limits, Continuity, Differentiation, Integration, Graphs of Functions, Vector Spaces, Matrices, Determinants, Linear Transformations.
- Elementary Probability - Events, Independent Events, Conditional Events, Bayes' Theorem, Chebyshev's Inequality.

- Random Variables and their Distributions – Binomial, Poisson, Geometric, Negative Binomial, Uniform, Normal, Exponential, Gamma, Beta.
- Inference – Methods of Moments and ML Estimation, Test for Mean and Variance of the normal distribution, Contingency Tables, Simple Linear Regression.
- Linear Programming Problem- Graphical Solution.

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

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

The admission to **Ph.D.** in Mathematics/Applied Mathematics/Statistics/OR will be based on the performance of the candidates in the interview to the shortlisted candidates possessing the UGC-CSIR JRF/NBHM fellowship.

Infrastructure facilities

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

These labs have licensed versions of Mathematica, SPSS 17.0 and SYSTAT 12

The University Library has been recognized as a Regional Library by the National Board for 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

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

Mirza Iftexhar Beg, Ph.D. (AMU) - Order Statistics (on leave till 31.12.2011)

V. Suresh, Ph.D. (TIFR, Mumbai) F.A.Sc. – Algebra & Algebraic Geometry (on leave from 1.8.2011 to 30.5.2013)

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

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

Jaya N. Iyer, Ph.D. (Mumbai) - Algebraic Geometry

Readers

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

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

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

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

Lecturers

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

Usha Mohan, Ph.D. (ISI, Bangalore) – Operations Research (on Leave till 12.7.2011)

Vishnu Namboothiri K, Ph.D. (Hyderabad) – Algebraic Number Theory (on Leave till 3.8.2011)

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

Sudheesh Kumar Kattumannil, Ph.D. (Cochin) Reliability

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

G.Ramesh, Ph.D (IIT,Madras) – Operator Theory, Operator Algebras

Honorary Professor

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

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

Dr. Homi J. Bhabha Chair Professor

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

Adjunct Professor

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

Department of Computer and Information Sciences

The Department of Computer and Information Sciences offers high quality post-graduate teaching and research programmes in all major areas of Computing, Information Science and Artificial Intelligence. The department is unique in offering M.Tech. Programmes (with GATE fellowships) in Artificial Intelligence (since 1987), and another unique program in Information Technology with specialisation in Banking Technology and Information Security (since 2001). 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 70 registered students currently.

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.

For strengthening research it has initiated academic collaboration at an international level with United Nations University/International Institute of Software Technology, Macau and University of Trento, Italy. The Department has MoUs for collaborative work with NISG (National Institute for Smart Government), Anna University, IBM

(ISTL), Sierra Atlantic and Altair Engineering to promote research and teaching programme in Business Processes Re-engineering and Middleware Technology, Mahasarakham University, Thailand amongst others.

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

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

GATE fellowships are offered to eligible M.Tech students by the UGC/AICTE as per their norms. In addition, financial assistance from the University is available for all the students admitted to various programmes (conditions apply).

The quality of education in the department attracts high calibre national and international students.

Programmes of Study

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

In addition, the department also contributes and supports the **M.Tech.** (Computational Techniques) from School of Physics, **M.Tech** (Bio-Informatics) from School of Life Sciences and 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.

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. Many students learn in an Industry environment by being selected for Internship with companies such as IBM, GE, Microsoft, CA, Honeywell etc.

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 recent 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-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.

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

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

Sponsored candidates: Five sponsored seats are available for admission into each stream of M.Tech CS, AI and IT. Candidates with required basic qualifications would be selected through Interviews. Employees with a minimum 2 years of work experience in IT companies registered with STPI or NASSCOM or Central Government Organisations can apply for M.Tech. admission in CS/AI. For M.Tech. (IT) those working in Banks/Financial institutions with a minimum of 3 years work experience will be considered. Candidates should have requisite qualifications for admission. A candidate seeking admission in this category into M.Tech. (CS/AI/IT) must submit the application through the organizations where he/she is working and a letter of willingness from the organization to pay a sponsorship amount of **One Lakh Rupees per candidate** (one time) to the development fund of the department. At the time of admission, candidates are required to pay the sponsorship amount and also the usual tuition, admission and other fees as prescribed by the University for other students from time to time.

Foreign candidates: Foreign nationals seeking admission in M.Tech. programme should have the required qualification with background of Mathematics, Algorithms, Computer Programming etc. Candidates should have ability to communicate in English. In order to support this ability a good score in TOEFL/ELTS has to be submitted at the time of admission. In addition, students should submit a letter of reference which supports their claims to the background, capabilities and ability to communicate in English.

Ph.D. programme is offered on full time, part time* and external registration basis as per the university regulations. Interested candidates are advised to study the areas of research from the departmental objectives and faculty profile. Apart from the University fellowships, few fellowships are provided by IDRBT for selected research scholars admitted to the Ph.D programme (Conditions apply).

*Candidates who have the required qualifications and are doing teaching/research in recognized institutions or researchers from companies registered with STPI/NASSCOM/Central Government Organizations who operate within the jurisdiction of the University can apply for part time admission.

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

Candidates should submit both GRE and TOEFL/ELTS scores to seek admission with copies of documents of their qualifying degrees and reference letters. For foreign students with a regular qualifying education from India can appear for an Interview in lieu of submitting GRE and TOEFL/ELTS scores.

Entrance Examination

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

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

Students should indicate their preference for the choice of program (whether CS/AI/IT) in the application form. Request for change of option will not be entertained. Admission and tuition fees for all the three M.Tech. programmes are uniform.

Ph.D. Programme. Admission is based on a written test with objective type questions, short answer questions, descriptive questions and technical comprehension. The written test covers the areas of Computer Organisation, Computer Programming, Discrete Mathematics, Data Structures, Algorithms, Operating Systems, Database Management Systems, Graph Theory, Computer Networks, Automata. The written test consists of Part A for 40 marks and Part B for 35 marks for a total of 75 marks. The number of candidates called for interview is four times the available seats. Candidates must indicate their research interest. Candidates having UGC-CSIR JRF are eligible to appear directly for Interview. However to gain more than the minimum marks they are strongly advised to appear for the written test.

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

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

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

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

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

1. All candidates admitted to PhD in the department, whether full time, part time or external, are required to pass a comprehensive examination within a period of 1 year from the date of admission. Initial Admission is provisional and subject to candidate passing the comprehensive examination. In case a candidate is unable to pass the comprehensive exam within 1 year and 1 month, his/her admission stands automatically cancelled.
2. The comprehensive exam will be a written examination and will consist of four papers (2 core papers and 2 elective papers), to be decided by the Doctoral Research Committees of the candidates concerned.
3. Passing the comprehensive examination means passing each of the papers with a minimum of 50% mark.
4. Comprehensive exams will be conducted twice a year, ie. in January and July. All the four papers can be cleared in a single sitting or can be cleared in two different sittings.

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

5. Supplementary examination will be conducted once in a year say before 20th of August every year. Students of the last year can take supplementary examination for the course he/she has failed. The result of the supplementary will be notified by last working day of August.

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

Infrastructural facilities

The facilities at the Department include a variety of computing machines such as SUN Workstations, recent Multi-Core Processor based Multi-Media Personal Computers with high resolution Graphics Cards, network support and cluster systems; running Linux, etc, versions of recent operating systems, 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 the following labs: Software Engineering lab, Spoken Language Processing lab, Network & Security Systems lab besides Embedded Systems Lab, Computer Vision and Image Processing Lab, Data & Network forensic lab. It also hosts a resource center for Telugu Language funded by MCIT, Govt. of India.

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

Faculty

Professors

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

Hrushikesh Mohanty, Ph.D. (I.I.T.Kharagpur) - Distributed Computing, Software Engineering, Business Process Re-engineering, Mobile Computing. (on Sabbatical Leave)

C. Raghavendra Rao, Ph.D. (Osmania University), - Simulation & Modeling, Knowledge Discovery, Computational Intelligence (**Head of the Department**)

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

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

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.

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.

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

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

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

Lecturers

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

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

P. Anupama, M.S. (UMBC, USA), Networking, Systems Security, Operating Systems. (on Study Leave)

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) – Data Mining, Rough Sets, Unix

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.

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

Faculty of IDRBT

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

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

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

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

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

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

Visiting Professors

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

Prof. Andre Rossi, Université de Bretagne Sud, France.

Prof. Raj Kumar Buyya, University of Melbourne, Australia.

Prof. Vivek Sarkar, Rice University, USA.

Prof. N S Choudhari, IIT Indore.

School of Physics

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

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

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

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

Programs of Study

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

M. Tech. in Integrated Circuits Technology, Ph.D. in Physics, and Ph.D. in Electronics Science.

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

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

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

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

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

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

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

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

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

Sponsored seats

Admissions to M. Tech. (IC Technology) program is also open to sponsored candidates from DRDO, ISRO, DAE, CSIR, and to ISO certified organizations as per the rules laid down by the University of Hyderabad for sponsored candidates in M. Tech. programs. The academic qualifications for sponsored candidates would be the same

as that of regular candidates but the requirement for valid GATE scores would be waived for the sponsored candidates. Up to 8 candidates can be admitted in this category. The sponsored candidates would be allowed to do their project work in their parent organizations.

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

Entrance Examination

The written test for **M.Sc. (Physics)** will mainly be in Physics (mechanics, general properties of matter, kinematics, heat and thermodynamics, wave motion, electricity and magnetism, light, modern physics, electronics and measurements) and mathematics (algebraic equations, differential and integral calculus including limits, vectors, matrices and determinants, elementary differential equations and elementary functions and their graphs). Short listed candidates from among those who qualify in the written test have to appear for an interview.

The admission to **Ph.D.** in Physics will be confined to the CSIR-UGC NET qualified candidates for JRF during the year 2011-12. The shortlisted candidates will be required to appear for an interview.

The admission to **Ph.D.** in Electronics Science will be confined to the CSIR-UGC NET qualified candidates for JRF in Physics or Electronics or the candidates with GATE scores in Physics/ECE during the year 2011-12. The shortlisted candidates will be required to appear for an interview.

Infrastructural facilities

Materials preparation and characterization facilities including nanocluster deposition systems, pulsed laser deposition system, Nano Indenter, C- V & I- V measurement system, Wafer inspection microscope, Rheometer, Micro-Raman Spectrometer, Scanning Probe Microscope, crystal growth equipment, cutting and surface polishing equipment, high vacuum coating machine, RF sputtering units, arc-melting furnace and RF induction furnace, temperature controlled ovens, continuous flow cryostat and electronic equipment for measurement of electrical and thermal transport properties, facilities to investigate field cycling NMR spectrometer, pulsed NMR, simultaneous measurement of electro optic and dielectric properties, vibrating sample magnetometer, closed cycle helium refrigerator, INEL X-ray diffractometer with wide angle position sensitive detector, atomic force microscope, vector network analyzer 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, CW tunable Ar ion laser, 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, have recently been set up. A liquid Helium plant has been commissioned. A Carl Zeiss Scanning Electron Microscope and X-ray reflectometry system has been set up. Physical Properties Measurement System & Magnetic Properties measurement systems are available in the Centre for Nanotechnology.

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

Computer facilities

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

CMSD/HPCF computer facility is used for simulation work.

Faculty

Professors

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)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Readers

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

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

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

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

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

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

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

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

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

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

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

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

Lecturers

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

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

Prabuddha Sanyal, Ph.D. (IISc, Bangalore) - Condensed Matter Physics - Magnetism (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

S. Chandrasekhar Chair Professor

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

Honorary Professors

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

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

School of Chemistry

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

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

UGC has selected School of Chemistry to establish the UGC-Networking Resource Centre in Chemistry to facilitate short term visits for 50-60 teachers, research scholars and students (M.Sc. and B.Sc.) from other Universities and Colleges. Further information and details of the program can be obtained from the School website.

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

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 2-year **M.Sc.** programme lays equal emphasis on Organic, Inorganic and Physical Chemistry. The **M.Sc.** programme lasting four semesters comprises 3 courses each in Organic, Inorganic, Physical and Theoretical Chemistry, 2 laboratory courses each in Organic, Inorganic and Physical Chemistry and elective courses. The syllabus is reviewed and upgraded regularly paying special attention to

the contemporary development in Chemical Sciences. Some of the unique features of the programme are the core courses in Instrumentation and Computer Applications, Mathematics for Chemists, Materials Chemistry, Biological Chemistry, elective courses and project work in final semester. The student completing the M.Sc. is proficient in all branches of Chemistry and is equipped to take up research in a variety of specialized fields including those areas where Chemistry intersects with Biology on the one hand and Physics on the other.

The School is actively involved in the five year Integrated M.Sc. programme run by the Centre for Integrated Studies.

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

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, dynamic light scattering apparatus, Confocal Raman Microscope, fluorescence lifetime imaging microscope and small/wide angle x-ray diffractometer. The NMR facility in the School consists of 200, 400 and 500 MHz spectrometers. The single crystal X-ray diffractometer facility consists of two CCD detector based diffractometer; powder x-ray diffractometer with variable temperature accessory is also available. The School also uses the facilities at the Central Instrumentation Laboratory, (X-band ESR spectrometer, circular dichroism spectrometer, scanning electron microscope, differential scanning calorimeter, vibrating sample magnetometer) and Centre for Nanotechnology (transmission electron microscope, rapid thermal annealing and scanning near field optical microscope). The School has ample computing facility consisting of a large number of workstations and personal computers; the state-of-the-art high performance computing facility available at the Centre for Modeling, Simulation and Design is also extensively used by the School. The internet and email facility provided by the University is effectively utilized by the School for scientific correspondence work. Access to most of the important journals is available online.

Entrance Examinations

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

The admission to **Ph.D.** is confined to the CSIR/UGC NET qualified candidates for JRF during the year 2011-12 and the shortlisted candidates will be required to appear for an interview.

Faculty

Professors

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Readers

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

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

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

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

Lecturers

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

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

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

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

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

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

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

School of Life Sciences

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

The School consists of 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 offered by the Department of Biotechnology are organised with the participation of Faculty of all the departments of the School as well as the School of Mathematics and Computer / Information Sciences and School of Chemistry. Under Distance Education mode, the School participates in P.G. Diploma programme 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-doctoral researchers over a period of 5 years. The School of Life Sciences has also set up ‘state-of-the-art’ facilities for

Proteomics and Functional Genomics including Microarray facilities, with a total cost of approximately Rs.6.00 crores. This facility complements very well with the activities of the UoH-DBT Centre. **Prof. A.S. Raghavendra** is the **Coordinator** of UoH-DBT-CREEB and **Prof. S. Dayananda** is the **Deputy Coordinator**.

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. Seyed 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 (Level-I), Plant Sciences (Level-II) & Animal Sciences (Level-I) are supported by Department of Science and Technology under FIST programme.

UGC-SAP Centre for Advanced Studies

The University Grants Commission has sanctioned the status of “**Centre for Advanced Studies (UGC-SAP-CAS-I)**” to the School of Life Sciences for a period of five years (2008-2013) with a financial outlay of Rs.128 lakhs. **Prof. A.S.Raghavendra** is the Programme Co-ordinator and **Prof. Manjula Sritharan** is the Dy. Coordinator. The thrust areas identified under this programme are Bioresources, Novel Biomolecules and Functional Genomics. The School of Life Sciences would be receiving under this grant sophisticated equipment for research and also for the teaching labs for PG and Ph.D. programmes. The grant would also have items of recurring

expenses including the costs of consumables, travel, visiting fellows, seminars, books and journals, besides the contingency.

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

Department of Biochemistry

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

The **M.Sc Programme** is envisaged and emphasized as the foundation and most important for understanding the various processes of living organisms or biological systems at the cellular and molecular level. The course is offered to students with a B.Sc qualification with a minimum of 60% marks in the aggregate of Science subjects with Chemistry or Biochemistry as one of the subjects. As Biochemistry played a crucial role in developing methods that are important in medicine, agriculture and biotechnology, the course offers a good amount of training in experimental skills to students to eventually pursue a career in both basic and applied aspects of biology. The following courses are offered for the two year or four semester M.Sc programme in Biochemistry. All core courses are three credits (3 hrs/week) and electives are 2 credits in nature. **Semester I:** Biophysical Chemistry, Intermediary Metabolism I, Genetics, Microbiology, and two lab courses: Computational Biology (2 credits) and *Biochemical Techniques -I*(4 credits). **Semester II:** Intermediary Metabolism II, Enzymology, Molecular Biology-I, Structural Biology and a lab course on *Biochemical Techniques II* (6 credits) . **Semester III:** Basic immunology, Molecular Biology-II, Bioenergetics and Biomembranes, two electives (any from School of Life Sciences) and *Biochemical Techniques-III* (5 credits). **Semester IV:** Nutritional and Clinical Biochemistry, two electives (any from School of life sciences), lab course (3 credits) and a Project work of 8 credits. The following electives are offered by the Dept Biochemistry: Endocrine biochemistry, Immunochemistry, Epigenetics, Protein

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

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

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

Funding, Research and Infrastructural Facilities: The Departmental faculty is engaged in highly active and productive research in several frontier areas of modern biology. You may please visit the section of the faculty of Biochemistry and their specializations. The faculty conducts their research with support from several National and International funding agencies in the form of research grants. The Department has also been supported by a grant from the Department of Science and Technology (DST), New-Delhi, to strengthen the postgraduate teaching and research in the Department under the 'FIST' programme for a period of 5-years (2008.-2013). In addition, the Department has been receiving grants from the Center For Advanced Studies – a status sanctioned to the combined School of Life Sciences (UGC-SAP-CAS-I) for a period of five years (2008-2013) by UGC, New-Delhi; infrastructure grant from the University of Hyderabad-DBT- Center for Research and Education in Biology and Biotechnology (UOH-DBT-CREBB) sanctioned by the Department of Biotechnology, New-Delhi, and a special PURSE grant

given to the University of Hyderabad by the Department of Science and Technology, New-Delhi for a period of 5-years.

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

Faculty:

Professors

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

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

M. Ramanadham, Ph.D. (Osmania): Cellular immunology, Mechanism(s) of B-lymphocyte activation, Studies on multiple myeloma and immunotoxicity of nanoparticles (**Dean, School of Life Sciences; Head I/C, Center for Physical Fitness and Sports Sciences**).

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

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

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

Readers

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

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

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

Sharmistha Banerjee, Ph.D. (Univ Hyd): Molecular Biology and Immunology, Enzymology, Prokaryotic transcription, Molecular pathogenesis of *Mycobacterium tuberculosis* and HIV coinfections.

Lecturers

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

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

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

Joint Faculty

Professor

Anand Kondapi, Ph.D (Andhra): Molecular biology, Drug development, and delivery, Functional characterization of DNA topoisomerases, HIV infection and Brain aging.

Department of Plant Sciences

The Department has been supported under UGC Centre for Advanced Studies in Life Sciences, the DST-Funds for Infrastructure in Science and Technology (FIST) Level-II and DBT under UoH-DBT-CREBB programme. The foundations for the rapid growth of the Department in the

last fifteen years have been laid with its philosophy to provide a well-balanced training to the students in modern Plant Sciences & Microbiology to enable them to choose careers in both advanced teaching and high quality research. The Department offers two master's programmes i.e., Plant Biology & Biotechnology, and Molecular Microbiology, and an independent Ph.D. programme.

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

All national and international funding agencies like DBT, MNES, CSIR, DST, INSA, UGC, NATP-ICAR, DAE, DOD, IAR, MoES, AP-Netherlands Biotechnology Programme, Humboldt Foundation, International Atomic Energy Agency, Rockefeller Foundation, Volkswagen Foundation, USDA, Indo-French Centre for Promotion of Advanced Research, the European Union, Third World Academy of Sciences are supporting the research activities of the Department.

The individual research laboratories are well equipped, apart from the availability of major equipment in central facilities of the Department, sister Departments in the School, and also at Central Instrumentation Lab of the University. The Faculty from the Department of Plant Sciences have the track record of consciously publishing in journals of repute like Nature, Plant Physiology, Trends in Plant Sciences, Plant Cell and Environment, Molecular Breeding, TAG, MGG, Phytopathology, Molecular Plant Microbe Interactions, Plant Molecular Biology, Plant Cell Physiology, BBRC, Molecular Genetics and Genomics, International Journal of Systematic and Evolutionary Microbiology, Phytochemistry etc.

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

Programmes of Study

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

Course Content

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

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

Course Content

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

3. Ph.D. Plant Sciences: The Ph.D. programme requires a minimum of 2 years pursuance from the date of confirmation of admission. At the end of I semester, the Ph.D. students would take examination for three theory and one lab courses (Scientific Writing, Research Methodology, and Biostatistics Techniques) for a total of 16 credits. The

requirement for the award of Ph.D. includes the submission of a thesis on an approved topic of research under the guidance of a Faculty member. The scholar presents the research work in a comprehensive seminar before the submission of the thesis and faces an oral examination in defence of the thesis. The average time required for Ph.D. is about 4 years.

Entrance Examination

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

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

6. **Ph.D. Plant Sciences** during the current year (2011-2012) will be confined to the candidates who are qualified in the NET examination for JRF conducted by CSIR/UGC, DBT or ICMR who are entitled for a fellowship. Such candidates are requested to appear for an interview. There is no written test.

Course work for Ph.D.

There will be course work for Ph.D. scholars that is mandatory from the academic year 2011-12. The course work will comprise of theory sessions in Research Methodology, Scientific Writing and Biostatistics offered by the four departments of the School of Life Sciences. In addition, the candidates will be evaluated for lab course on bioanalytical techniques.

Infrastructural facilities

The Faculty and students of the Department have access to a range of sophisticated equipment dealing with diverse

research topics. These include Ultra-centrifuge, High Speed Centrifuge, Infra-red gas analyzer, Atomic Absorption Spectrophotometer, HPLC, lyophilizer, PCR machine, UV-VIS-NIR spectrophotometer, Liquid scintillation counter, Laser scanner, Gel documentation system, Transilluminators, Inverted Microscope, electroporator, internet, green house and Amersham DNA sequencer (megabase), Fluorescence Microscope, Imaging system/Microarray reader etc. Further the facilities developed under UoH-DBT Centre for Teaching and Research in Biology and Biotechnology are also accessible. The Department is adding more infrastructural facilities under the newly granted FIST Level II programme.

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

Faculty

Professors

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

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

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

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

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

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

Readers

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

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

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

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

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

Lecturers

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

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

Department of Animal Sciences

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

The Department has a strong research program with infrastructural support from the Department of Science and Technology under Funds for Infrastructure in Science and Technology (FIST) program (awarded for the second time to the department) and under the UGC-CAS (Centre for Advanced Studies) program for the School of Life Sciences. The Department possesses reputed faculty who have independent funding from various National (DST, DBT, CSIR, UGC, ICMR, DRDO) and International Funding Agencies and Biotechnology industries. In recognition of the department's contribution to research in biotechnology, Shantha Biotechnics, a premier biotech

industry in Hyderabad offers Shantha Research Fellowship to one PhD student each year.

Programs of study

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

Doctoral Program in Animal Sciences: The program requires the registration of the student under a faculty and is for a minimum of two years upon admission to the program. The program consists of compulsory course work in the first two semesters and a final submission of a thesis based on the experimental work done under an approved topic. Yearly presentation of the work completed is monitored by a Doctoral Committee consisting of three members, including the PhD supervisor. The total duration of the entire program is approximately 4 - 5 years.

Entrance Examination

M.Sc Animal Biotechnology: An entrance examination is conducted for the selection of candidates to the program. The entrance examination consists of 100 compulsory objective questions of B.Sc. standard, covering all aspects

of Zoology, Botany, Chemistry, Biochemistry, Microbiology, Genetics, Molecular Biology and Biotechnology.

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

Infrastructural facilities

State-of-art facilities are available for the students in the Department of Animal Sciences and School of Life Sciences. The funding for the facilities has been through National funding for common programs like DBT-CREBB (DBT funded Centre for Teaching and Research in Biology and Biotechnology) and UGC-CAS (UGC funded Centre for Advanced Studies), in addition to several individual faculty projects. The Proteomics, Genomics and Metabolomics facilities in the School of Life Sciences include 2D electrophoresis, MALDI-TOF/TOF and Q-TOF, Real-Time PCR, Chip maker, Spot picker, microarray set-up, metabolomics facilities for the analysis of small molecules, including LC-MS-MS. The other common facilities include high speed refrigerated centrifuges, ultra-centrifuges, flow cytometer, spectrofluorometer, spectrophotometers, gel documentation system, phosphor-imager, HPLC, PCR machine, liquid scintillation counters, luminometer, oxygraph, bioreactors, French press, lyophilisers etc. In addition, the students have access to Central Instrumentation Laboratory of the University, which contains amino acid analyzer, scanning electron microscope, transmission electron microscope (TEM), atomic force microscope (AFM), SPR spectrometer, Confocal microscope etc.

The Department has instrument facility that includes flow cytometer, HPLC, gel documentation, PCR machines etc in

addition to equipments within the supervisor's laboratories. The Department also has cell culture, mosquito breeding, insect breeding and pathogen containment facilities. The Department will shortly be acquiring FACS facility funded by DST-FIST program. The Department has state-of-art laboratories (DBT-CREBB) for hands-on training for M. Sc students which are carefully planned into defined modules comprising of techniques in biochemistry, genetics, microbiology, protein purification, histology, genetic engineering, bioinformatics, immunology and mammalian cell culture.

Faculty

Professors

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

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

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

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

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

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

Readers

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

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

Lecturers

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

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

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

Joint faculty

Professor

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

Department of Biotechnology

The Department of Biotechnology offers application oriented and most-sought after courses in Biotechnology and Bioinformatics. Innovation based training will be imparted to the students with a special emphasis on understanding the basic concepts of biological processes in pursuing research in frontier areas of biotechnology and bioinformatics. At present, the Department carries research in the frontier areas of biology such as biophysics, molecular therapeutics, stem cell therapy, biology of HIV, HCV, dengue and chikungunya viruses and cancer, molecular aspects of neurochemistry, neurodegenerative diseases, molecular insights into adaptation of chronic pathogens and functional genomics. The thrust area in which the research in Department focus is “Molecular therapeutics for infectious and neurodegenerative diseases”

The programmes of the Department are supported by special grants from the Department of Biotechnology towards M.Sc. Biotechnology and Bioinformatics Infrastructure facility (BIF).

Programmes of Study:

1. M.Sc. Biotechnology: This course was introduced in the year 1990 under the nation-wide post-graduate program by the Department of Biotechnology, Govt of India. This course is a four semester program with credit system of evaluation. The program consists of DBT recommended syllabi, and the course structure may change from time to

time at the recommendations of the DBT. The current syllabus is available at

http://dbtindia.nic.in/uniquepage.asp?id_pk=666

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

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

Course Coordinating Committee:

Prof. Mirza Iftekhhar Beg, - Order Statistics (Department of Mathematics and Statistics, MCIS).

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

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

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

Dr. Shekhar Mande, Structural Biology (CDFD)

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

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

3. Integrated M.Sc./Ph.D. Biotechnology: This is a 4 year course. Initial 2 years students will be involved in an extensive course work, which required to be completed by end of 2 years before continuation for the Ph.D. degree. Student who could not secure adequate credits and must have completed 86 credits may be opted to exit the course with degree in M.Sc Biotechnology. Based on the performance in a comprehensive viva, the students carry out their work under the supervision of the faculty member and are periodically advised by the Doctoral Committee. They have to actively participate in Journal clubs, research work presentation. The research students have to present their research work in a comprehensive seminar before submission of the thesis.

4. Ph.D Biotechnology: This is a 3 year course. In the first two semesters there will be course work, which required to be completed before the comprehensive seminar. The students carry out their work under the supervision of the faculty member and are periodically advised by the Doctoral Committee. They have to actively participate in Journal clubs, research work presentation. The research students have to present their research work in a comprehensive seminar before submission of the thesis.

Entrance Examination

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

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

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

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

9. Research Achievements:

The Department faculty is engaged in high impact innovative research in the frontier areas of modern biology. The faculty conducts their research with the support from several national and international funding agencies in the form of research grants. The faculty of the department is credited with several patents and research publications relating to biotechnology.

10. Infrastructure facility:

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

MAT Lab, SYBYL, Gold etc. In addition, the students have access to the computation facilities at the Centre for DNA Fingerprinting and Diagnostics for teaching and project works.

Faculty

Professors

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

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

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

Reader

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

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

therapeutics), Bioenergetics of chloroplasts and mitochondria.

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

Lecturers:

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

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

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

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

Insaf Ahmed Qureshi, Ph.D. (Hamdard Univ.) – Molecular Biology, Protein Crystallography

Adjunct Professor:

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

School of Humanities

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

1. Department of English
2. Department of Philosophy
3. Department of Hindi
4. Department of Telugu
5. Department of Urdu
6. Centre for Applied Linguistics and Translation Studies
7. Centre for Comparative Literature
8. Department of Sanskrit Studies
9. Centre for English Language Studies
10. Centre for the Study of Foreign Languages
11. Centre for Classical Languages - Telugu
12. Centre for Endangered Languages and Mother Tongue Studies

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, Cultural 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. Sections II & III consist of separate sets of questions for language and literature.

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.

Section I	Language (Objective)	25 Marks
Section II	<i>Literature</i>	
	Essay (on literary topics)	25 Marks
	<i>Language</i>	
	Essay (on English language: ELT/English Linguistics topics)	

Section III	<i>Literature</i>	
	Poetry Comprehension	25 Marks
	<i>Language</i>	
	(i) A practical exercise testing analysis of linguistic data* OR	
	(ii) A question testing ability to devise specified teaching tasks using a given passage	

*Question (i) may contain further options within it to take care of different areas of linguistics.

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

Ph.D. entrance examination (written) comprises 3 (three) sections. All sections consist of separate sets of questions for language and literature.

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.

Section I	<i>Literature</i>	25 Marks
	A Poem for analysis	
	<i>Language</i>	25 Marks
	(i) A practical exercise testing analysis of linguistic data* OR	
	(ii) A question testing ability to devise specified teaching tasks using a given passage	

*Question (i) may contain further options within it to take care of different areas of linguistics.

Section II	<i>Literature</i>	
	Essay (on literary topics)	35 Marks
	<i>Language</i>	
	Essay (on English language: ELT/English Linguistic topics)	35 Marks

Section III	<i>Literature</i>	
	Questions (s) testing research aptitude	15 Marks
	<i>Language</i>	
	Question(s) testing research aptitude	15 Marks

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

Infrastructural facilities

The Department has been supported by a UGC-DRS (SAP) programme. The UGC has also been sanctioned the programme, “Assistance for Strengthening of Infrastructure for Humanities and Social Sciences (ASIHSS)” for five years, beginning April 1, 2006. The Department enjoys support from the Special Assistance Programme of the UGC-DSA (Department of Special Assistance). This status was accorded to the Department after a review of its performance under three successful phases of assistance under the DRS (Departmental Research Support). The UGC sanctioned an amount of 67 Lakhs to the Department to be spent over five years for a project titled “English in India in Its Socio-cultural, Literary and Pedagogic Contexts” which commenced on April 1st, 2010. Prof. M. Sridhar is the Coordinator of the project. The Department has xerox machines, audio-visual equipment, and a substantial text-book library built up purely on the strength of donations from Faculty, students and other well-wishers. Some PCs have been set aside for the use of Research Scholars and the visually challenged. The Department’s Multimedia Laboratory is used for the study of language, drama, media and contemporary images.

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

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 of Humanities**)

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.

Alladi Uma, Ph.D. (SUNY, Buffalo); Women’s Writing, Indian Literatures, African American Literature, Comparative Studies 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.

Pingali Sailaja, Ph.D. (CIEFL, Hyderabad); General Linguistics, Phonetics, Generative Phonology and Morphology, English Language Teaching, English in India. (**Director, Centre for the English Language Studies**)

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

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

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

Readers

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

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

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

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

Lecturers

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

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.

Department of Philosophy

The Department is eminently known in the country for research in diverse fields of philosophy. It has been recognised by the UGC as a Department of Special Assistance since 1987. The thrust areas of research under this programme are (1) Philosophy of Language (2) Philosophy of Cognition and Mind). 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 Nyaya and Buddhism, Political Philosophy, Philosophy of Science, Philosophy of Language, Wittgenstein, Philosophy of Art etc.

M.Phil. Programme

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

Ph.D. Programme

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

Entrance Examination

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

Infrastructural facilities

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

Faculty

Professors

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

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

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

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

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

Readers

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

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

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

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

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

Department of Hindi

The Department of Hindi aims at providing teaching and research facilities in Hindi, keeping in view the changing social norms, communication patterns, different social roles of language in our society and fast changing 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.

The **M.A. Hindi Language and Literature** course extending over four semesters provides instruction and guidance for acquiring broad acquaintance with the various new fields of Hindi language and literature without entirely neglecting the old and medieval texts and offers wide scope for elective studies. Special emphasis is also given to the functional aspects of the language.

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

This course will have common papers up to 3rd Semester and in the 4th Semester the Streams will be separated. **In case a student opts the Functional Hindi and Translation stream, he/she will be offered four separate**

courses (Four credits each) and ‘Specialization in Functional Hindi and Translation’ will be mentioned in his/her degree of M.A. Hindi Language and Literature.

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

The **Ph.D. programme** is entirely a research programme. Students are required to submit their theses after taking the prescribed courses, if they directly join Ph.D. programme on other basis without M.Phil. No student is permitted to submit his 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. Dalit and Tribal Literature
7. Functional Hindi and Translation
8. Literature - Cinema mass media and cultural studies
9. Women and Gender discourse

Entrance Examination

The entrance examination for M.A. Hindi Language & Literature will be of two parts - Part ‘A’ and Part ‘B’. Part ‘A’ will consist of objective type questions and Part ‘B’ of short and essay type questions. Objective type questions will be of 50% of the written test marks and rest 50% questions will be short and essay type.

The written test for admission to **M.A. Hindi Language and Literature** will include questions on the history of Hindi Language and Literature, works of prominent personalities of Hindi Language and Literature, essays on Social, Cultural, Political, Scientific and academic topics, related to Hindi language and literature comprehension and explanation of a piece of poem/passage in Hindi and questions on general Hindi grammar/Linguistics.

The written test for admission to **M.Phil.** programme in Hindi will contain **short & essay type questions** (M.A. standard) of **altogether 40 marks** on the History of Hindi literature, History of Hindi language and General Linguistics, questions on the proposed area of research and **35 marks 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 will also be in two parts : **objective type (35 marks)** and **short & essay type (altogether 40 marks)**. The questions will be asked from the following areas :

- 1) Objective type questions on the History of Hindi Language and Literature
- 2) One Essay type question on literary and linguistic topics of M.A. standard. Areas of questions will be Medieval poetry, Modern literature, Drama and Fiction, Linguistics, Indian & Western Poetics & Criticism
- 3) One question on Research Methodology and related topics
- 4) One question on the proposed research project
- 5) Translation from Sanskrit to Hindi and English to Hindi

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

Faculty

Professors

Shashi Mudiraj, Ph.D. (Osmania), D.Litt. (Lucknow)- Modern literature, Socio psychological approach to

Literature, Comparative studies, Functional Hindi and Translation

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, Dakshini 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, Translation, Dalit Literature and Identity Studies.

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

R.S. Sarraju, Ph.D. - (Andhra) - Functional Hindi and Translation Studies, Comparative Indian Literature, Sociology of Literature **(Chief Warden)**

Readers

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

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

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

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

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

Lecturers

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

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 6 Core courses in I and II semester each, totaling 12. And a wide range of 15 optional courses in III & IV semesters each, totaling 30, out of which a student has to choose a minimum of 6 courses in each semester, totaling 12 courses in both III & IV semesters. All the courses both Core and Optional are of 3 credits each. Thus, M.A. Programme carries 12 core courses and 12 optional courses with a total of 72 credits (24 x 3) which a student has to score to get M.A. Degree. The courses are designed with an emphasis on the all round development of the personality of the students with an adequate importance to job opportunities. The Courses provide a wide range of specializations such as classical, modern and folk literatures, literary criticism and aesthetics, traditional grammar, Telugu linguistics, computer application to Telugu language, and mass media.

The **M.Phil.** Programme is of two semester duration which includes course work and dissertation.

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, General Knowledge, current events etc. There is no negative mark.

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. There is no negative mark. 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 without any negative marks based on classical and modern literature, linguistics and history of Telugu language, grammar, chandas, alankaras, literary criticism, folk literature and General knowledge (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

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. **(Head of the Department)**

S. Sarat Jyotsna Rani, M.A. (Nagarjuna), M.Phil. (UoH), 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. **Tummala Ramakrishna**, Ph.D. (S.V.U.) – Modern Telugu Literature, Fiction Writing, Preparation of Text Books

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

Reader

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

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

Lecturers

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

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

D. Vijayalakshmi, M.A. Telugu (Madras), M.A. Linguistics (Annamalai), Ph.D. (SPMVV, Tirupati), Diploma in Tamil, P.G. Diploma in Telugu Translation (SPMVV, Tirupathi) – Applied Linguistics, Study on Telugu Language, Dialectology, Translation, Folk Literature, Lexicography, and Comparative Linguistics.

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

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

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

Department of Urdu

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

Special importance is given for studies in classical and modern literature and Deccani research especially editing of Deccani Manuscripts. The syllabus is updated keeping in view of the changing needs of the society. The syllabus includes job-oriented courses like Translation: theory and practice; Computer and Urdu Software Practice; Urdu Journalism and script writing for Audio-Visual media. This is the only Department in the country having computer lab of 12 PCs with internet connection. A separate room with some PCs is available for use of the research scholars. The Department conducts workshop, extension lectures by eminent scholars, and symposia/seminars of National and International level. There is tremendous response of Mphil and PhD research and a good research output also.

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

The **M.A.** Urdu syllabus has both modern and interdisciplinary features. The programme aims at giving a fair knowledge of all the important forms of Urdu literature

with introduction of other disciplines in Humanities and Social Sciences relevant to Urdu literature. The programme consists of several innovative optional courses like translation theory & practice, Writing methods for audio visual media, and core/compulsory courses in Computer & Urdu Software practices and Introduction to Urdu Journalism.

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

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

Entrance Examination

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

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

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

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

Faculty

Professors

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

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

K. Muzaffar Ali: Ph.D (Madras) Poetics, Classical Urdu Literature, Urdu Drama, Modern Poetry Modern and Post Modern Criticism, Genres of Urdu Literature, Metaphorical Studies in Urdu Literature and Holy Quran.

Readers

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

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

Lecturers

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

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

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

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

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

Centre for Applied Linguistics and Translation Studies (CALTS)

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

Programmes of study

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

M.A. in Applied Linguistics is a four-semester programme with 5 courses per semester. The compulsory courses cover Phonetics, Phonology, Morphology, Syntax, Literary Theory, Semantics, Language Teaching and Testing, Translation Studies, Lexicography, Computational Linguistics, Historical Linguistics, Psycholinguistics and Sociolinguistics. The 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. The course is offered through Centre for Integrated Studies.

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 & Current trends in Applied Linguistics as well as Theories of Translation and electives 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 papers to enable students from Literature, Linguistics and other backgrounds to pursue their interests in Translation Studies and begin research without getting too deeply involved in Micro Linguistics. 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 papers spread over the first two semesters and a dissertation on an approved topic under Faculty guidance.

Entrance Examination

The pattern of the question paper for the entrance examinations 2011 shall be as follows :

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

The question paper consists of completely objective type questions to be answered in OMR sheet. There will be 100 questions spread across three sections: Section – A has 30 questions covering language proficiency in English; Section – B has 20 questions covering general knowledge with respect to world languages; and Section – C has 50 questions set from language data for analysis.

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

The question paper for written test is completely in objective type mode to be answered in OMR sheet. There will be 75 questions. Questions cover General linguistics, Applied linguistics and Core linguistics.

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

The question paper for written test is completely in objective type mode to be answered in OMR. There will be 75 questions. Questions are set from different areas viz., General Attitude for Language, literature and Translation, Comprehension and analytical ability in Translation.

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

The question paper for written test is completely in objective type mode to be answered in OMR sheet. There will be 75 questions. Questions are set from the areas of Core linguistics, Applied linguistics and Research Methodology.

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

The question paper for written test is completely in objective type mode to be answered in OMR sheet. There will be 75 questions. Questions cover theories of Translation, practical translation and comprehension & analytical ability with respect to translation.

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

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

2. Applicants for admission to the Ph.D. programme must submit along with the application (i) a brief description (about 500 words) of their proposed topic of research and (ii) a copy of M.Phil./M.Litt. dissertation/ papers (returnable).

Faculty

Professors

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

B.R. Bapuji, Ph.D. Linguistics and Sociology (Osmania) - Social Theory, Sociology of Language, Translation Studies, Political Sociology, Gender Studies, Literacy Studies.

G. Uma Maheshwara Rao, M.Sc (BHU), M.A. Linguistics, Ph.D. Linguistics (OU), M.A. Applied Linguistics (SUNY New York) - Historical Linguistics, Derivational Morphology, Nonlinear Phonology, Computational Linguistics.

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

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

K. Subrahmanyam, Ph.D. (Andhra) - Sanskrit Language and Literature, Discourse Analysis, Literary Criticism, Translation Studies, Natural Language Processing, Telugu grammar & Literature, Comparative Literature, Paninian Studies, Indian Philosophy, Ayurveda, Rajaniti, Lexicography and semantics.

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

J. Prabhakara Rao, Ph.D. (Moscow) - Mathematical and Computational Linguistics, Systemic Linguistics and

Systemic Typology, Methodology of Linguistics, Russian Linguistics and Russian as a Foreign Language.

Readers

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

Lecturers

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

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

K. Parameshwari, M.Phil. - Morphology and Computational Linguistics

Sriparna Das, Ph.D. (University of Hyderabad) – Translation Theory

Centre for Comparative Literature

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

Programmes of Study

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

M.A. Programme in Comparative Literature aims to sensitize students to the needs of a comparative approach to literature. Tracing the history of the discipline in India and the world, and the development of its methodologies, the

programme offers intensive study through four semesters of course work. Each semester carries 18 credits. There is continuous evaluation followed by semester end examinations. Through the course, the students are exposed to aesthetic modes and critical theories to enable the appreciation of literature in a critically nuanced manner. The course emphasizes Translation Studies as an important critical tool to engage with literatures written in diverse languages. The fourth semester allows a choice of elective subjects and prepares the student for writing a research-oriented dissertation.

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

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

Medium of Instruction

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

Entrance Examination

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

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

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

Faculty Professor

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

Readers

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

Nandini Bhattacharya, Ph.D. (University of Jadavpur)-Critical Theory (Postcolonial theory, Reception theory, Narratology); Translation Studies; Culture Studies; Gandhian Studies; Indian Writing in English; Dalit Studies; Bengal/Britain interaction in (19th century).

Lecturers

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

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

Department of Sanskrit Studies

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

Major goals of the Department are:

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

Ph.D. programme

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

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 minimum 16 credits. 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 and on general Sanskrit. The purpose of examination will be to test the understanding of concepts rather than mere memorization. There will be negative marking for this part, and 0.33 mark will be deducted for each wrong answer.

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

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), Ph.D. (Applied Linguistics, University of Hyderabad) - Bridging the gap between Science and Technology in Sanskrit texts and the Modern Science and

Technology, with special emphasis on Language Technology, Computer Science and Mathematics. **(Head of the Department)**

Lecturer

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

Guest Faculty

Dr. Kavita Kasliwal, Ph.D. (Jaipur)

Joint Faculty

Prof. 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 (from CALTS).

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

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 (from Telugu).

Kottapalli Seshagirirao, M. Phil.. & Ph.D., (UH) F.R.A.S. – Botanical Sanskrit, Telugu & Latin, Ayurvedic Medicine, Medicinal & Pharmaceutical Botany, Plant Systematics, Biodiversity & Conservation (from Plant Sciences).

Senior Linguist

Devanand Shukl, Ph.D. (Delhi) – Sanskrit Computational Linguistics

Post Doctoral Research Fellow

R. Anupama, Ph.D. (Rashtriya Sanskrit Vidyapeetha, Tirupati)

Centre for English Language Studies (CELS)

The Centre for English Language Studies primarily services the needs of the Integrated Programmes of the University and also provides need-based courses in English for other students across the University. The aim is to provide essential English language skills that would help students cope with their curricular demands in their respective disciplines, and also to prepare them for future career demands. Classes are organized in small groups to facilitate individual as well as remedial attention. The Centre currently has two Faculty members, Dr. Shree Deepa and Ms. Jyoti Hymavathi Devi and a few Guest Faculty.

Prof. Pingali Sailaja, Dept. of English is the Director of the Centre.

School of Social Sciences

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

Departments

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

Centres

1. Centre for Regional Studies
2. Centre for Folk Culture Studies
3. Centre for Study of Social Exclusion and Inclusive Policy
4. Centre for Study of Indian Diaspora
5. Centre for Knowledge, Culture and Innovation Studies
6. Centre for Human Rights
7. Centre for Gandhian Economic Thought
8. Centre for Ambedkar Studies

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

An Archival Cell with the support of the UGC is functioning under the auspices of the Department of History for preservation of rare and valuable manuscripts. The Department of Anthropology has developed a museum as teaching aid for students. All the Departments are equipped with internet facilities.

From the Academic Year 2007-2008 the School of Social Sciences has started 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 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. G. Nancharaiah, Department of Economics is the **Dean of the School**.

Department of Economics

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

Programmes of study

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

I.M.A. (5-year integrated) programme consists of a component that is common to all the social sciences during the first three years. The students are admitted through an entrance test common to all social sciences. They initially join I.M.A. in social sciences and are allowed to choose their discipline (Economics or any one of the other four social sciences) at the end of three years on fulfilling certain eligibility conditions and their performance in the first three years. The final two years of the I.M.A. Economics programme are common with the M.A. Economics programme. Further details about the programme and entrance test can be found under Centre for Integrated Studies in this Prospectus.

M.Phil. is a one year programme consisting of course work and dissertation. The course work places emphasis on: a) recent advances in selected areas of economics, b) literature in the chosen area of research and, c) proficiency in research methodology of economics. Students are required to do course work in the first semester. During the remaining part of the programme, they are expected to write a dissertation.

The **Ph.D.** programme consists mainly of research work (with a provision for course work to those who are admitted without M.Phil. degree) leading to a thesis on an approved topic. The thesis will be of a high standard seen as a contribution to knowledge and will be defended in an open viva-voce.

Entrance Examination

The Entrance Examination for M.A. programme consists of only objective type questions. The test is designed to test the candidates' general aptitude (including quantitative ability) and understanding of economics at the bachelor's level. The test is of TWO hours duration and consists of 100 multiple choice questions.

Entrance test details for I.M.A. programme are given under the Centre for Integrated Studies.

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

Faculty

Professors

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

Economics & Mathematical Economics (**Dean of the School**)

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

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

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

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

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

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

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

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

Readers

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

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

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

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

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

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

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

Lecturers

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

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

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

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

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

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

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

Department of History

The Department of History offers courses leading to **M.A.**, **M.Phil.**, and **Ph.D** degrees. It also offers 10 courses in history for the first three years of 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, Environment and cultural history.

At the research level the Department's primary focus is on the socio-economic and cultural history of the Deccan region, namely, Andhra Pradesh, Karnataka and Maharashtra. At the same time, an in-depth study of the linkages (socio-cultural and economic) of the Deccan region with other Indian regions and the outside world are also attempted. There is a two fold aim of all research activities in the Department: a) Widening the database in its studies of local and regional history and b) introducing an inter-disciplinary approach to understand the underlying

social and economic realities of the history of the Deccan through the ages. The Department has been involved in guiding research on North East regions, science, technology, environment and medicine, economic history, maritime history, women's studies, Indian national movement, peasant and tribal movements, cultural history and contemporary history.

Programmes of Study

The **M.A.** course is a two year programme consisting of 16 courses spread over four semesters, with four courses per semester. The main thrust of the first two semesters is to equip the students in certain core compulsory courses in both Indian and non-Indian history. These are designed to be comprehensive and introduce students into the various interpretative dimensions of understanding the history of human civilization with a focus on India. During semesters III and IV a wide range of special courses as optionals are offered by the Department thus providing an opportunity for students to specialize in specific areas of Indian History. Students also have an opportunity to do at least two courses outside the Department during their third or fourth semesters with the aim to encourage inter-disciplinary studies. The Department during each academic year decides the number and title of options.

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

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

Infrastructural Facilities

Under the support from the Special Assistance Programme of the UGC the Department has been able to purchase a large number of books on most of the recent writings on history. Under the UGC Programme of Universities with Potential for Excellence (UPE) the Department could procure and strengthen the infrastructural facilities in the Department. It has also been able to support the continuance of several foreign and Indian journals on History subscribed by the Library. The Archival Cell in the Department contains the private papers of individuals who have participated in the freedom movement. The Department has an archaeological museum containing antiquities representing stone ages to late Medieval periods. As part of its effort the Department continues to document and update its resources with the help of equipment being purchased from time to time.

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

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

Entrance Examination

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

seeking admission to the M.Phil. and Ph.D. courses must also take a Viva-Voce examination.

Faculty

Professors

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

R.L. Hangloo, Ph.D. (JNU, Delhi) - Medieval Indian History with Special reference to Medieval Indian State, Medieval Indian Economy and Technology, and History of Kashmir and Central Asia (EOL for 2 years from 1.1.2011 to 30.12.2012 to take up assignment as Professor in Central University of Punjab, Bathinda, Punjab)

Atlury Murali, Ph.D. (JNU, Delhi) - Social and Cultural History of Colonial India with special reference to Freedom Struggle, Peasant Movements, Women's Studies, Environmental Studies and History of Computers, Science, Technology and Medicine (Sabbatical leave from 1.7.2010 to 30.6.2011)

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

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

Rila Mukherjee, Ph.D. (Paris) – Economic History of South Asia, early Modern European history, Democracy and citizenship studies, Maritime and Oceanic history, Historical Cartography (**Head of the Department**)

Readers

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

R. Swarupa Rani, Ph.D (Hyderabad) – Modern Indian History, Social and Cultural History of South India, Women's History and Historiography.

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

Lecturers

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. (lien for a period of 2 years from 5.1.2011 to join as Reader in CWS)

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

Rashmi, Ph.D. (JNU, Delhi) - Medieval and Early Modern Indian History, Urban History, Cities and Maritime History

Department of Political Science

The Department of Political Science currently has Special Assistance Programme (DSA-III) on the thrust area **Globalization, State, Civil Society and governance interface**. The Department offers courses leading to M.A., M.Phil., and Ph.D. degrees. 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 and vulnerable/marginalized groups.

The **M.Phil.** course is a two semester programme. The students are required to devote the first semester to course work which consists of four courses, each carrying four credits, in the areas of Research Methodology, Advanced Theories and a specialized course in the field of student's research interest. In the following semester, each student is required to write a dissertation on an approved topic under the supervision of a Faculty member.

The **Ph.D.** programme consists mainly of a research project (and course work if required) and a thesis on a topic approved by the Department. The thesis should be of a high standard and considered to be a valuable contribution to the area of study concerned. Candidates for the Ph.D. programme are required to submit a research proposal for the intended Ph.D. thesis along with the application for admission. The research proposal should contain hypothesis, goals or objectives, statement of the problem and methods of executing the proposal. *This is an essential requirement.*

Entrance Examination

M.A.: The written test for admission to **M.A.** Political Science consists of three parts. Part-A (30 marks) consists of multiple-choice type questions that test the general knowledge as well as subject specific knowledge of the candidate. Part-B (30 marks) consists of passages of general type to test reading comprehension abilities of the candidates. In Part-C (40 marks) the candidates will be asked to answer two essay type questions, where choice is available. In this section while some questions are subject specific, some are of general nature which can be answered by candidates from non-political science background.

M.Phil.: The written test for **M.Phil** programme consists of 10 essay type questions out of which the candidates are expected to answer any three questions (75 marks). The questions will cover different areas of political science, namely Political Theory, International Relations, Comparative Politics, Indian Government and Politics and Public Policy / Public Administration. Selection of candidates will be based on the performance in the written

test (75 marks) and interview (25 marks) with the exemption to JRFs as per the UGC Rules.

Ph.D.: The written examination for Ph.D. programme will have two parts. Part A consists of three questions (3 questions) on Methodology. Out of the three questions, the candidate should attempt only **One** question and it carries 25 marks. It should reflect the candidate's preparedness to pursue research. Part-B consists of 10 questions covering different areas of Political Science: Political Theory, International Relations, Comparative Politics, Indian Government and Politics and Public Policy / Administration. Candidates are expected to attempt two questions and each question carries 25 marks (2 x 25 = 50) marks. Selection of candidates will be based on performance in the Written test (75 marks) and interview (25 marks), with exemptions to JRF / RGNFs as per UGC Rules.

Faculty

Professors

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

Shantha Sinha, Ph.D. (JNU) - Indian Government and Politics, Political Sociology, Political Development, Rural Political Processes. (on EOL till 17.5.2013)

Prakash C. Sarangi, Ph.D. (Rochester) – Political Theory, Comparative Politics. (on sabbatical leave till 31.12.2011)

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

I. Ramabrahmam, Ph.D. (Hyderabad) – Public Policy, Governance, Higher Education and Training. (**Head of the Department**)

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

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

Sanjay Palshikar, Ph.D. (Poona) - Political Theory, Indian Political Process (EOL till 31.5.2011)

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

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

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

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

Lecturers

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

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

Shaji S, Ph.D. (University of Hyderabad) - International Relations: Foreign Policy of India, Foreign Policies of Developing States, Transfer of Technology and International Politics.

Aparna Devare, Ph.D. (American University, Washington D.C.) - Comparative Politics, Historiography, Indian Politics, International Relations Theory, Post-colonial Theory, World Politics.

Department of Sociology

The Department, started in the year 1979, has grown over the years to be one of the important centres of sociology teaching and research in the country. While emphasizing topics and themes central to the discipline, the Department's teaching and research activities have been oriented towards contemporary questions that have both basic and applied dimensions. The academic activities of the Department have a unique disciplinary and

interdisciplinary orientation, designed to guide and support student development as independent learners as well as to inspire them to critically engage with policies, issues, and social action. The Department has had a Special Assistance Programme supported by the U.G.C. in the thrust areas of social identities, globalization and the idea of 'public space'. This has been upgraded to DSA-I status (2007-12), with a special focus on themes of globalization and public and public space. The learning ambience of the department is both informal and rigorous, being geared towards promoting a critical spirit of inquiry among students. The structure and content of our courses are meant to give a grounding that not only prepares students for future studies in sociology/social science, but also offers the benefits of learning to work in a constructive way in other areas of life.

Programmes of study

Three programmes of study are offered leading to the **M.A., M.Phil. and Ph.D.** degrees in Sociology. The Department also participates in the **Five Year Integrated Master's** programme in Social Sciences by offering a variety of courses at the Centre for Integrated Studies. At the end of three years, students in the Integrated Master's programme have the option to join the Department with the regular M.A. students, subject to some conditions. The courses offered by the Department under the auspices of the Integrated Master's programme are the following: Introduction to Study of Society; Changing Indian Family; Equality and Inequality; Caste in Modern India; Rural and Urban Societies; Roots of Social Protest; Contemporary Development Issues; Religion and Society; Introduction to Social Research; Work and Organisations.

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. Both the compulsory and optional courses are of 4 credits each. Students are allowed to take up to Three of the Six optional courses from other departments subject to the permission of the Head of the Department.

The Compulsory courses for M.A. include: Classical Sociological Theory; Research Methods I: Survey Research and Basic Statistics; Sociology of India; Population and Society; Modern Sociological Theory; Research Methods

II: Qualitative Research Methods; Social Stratification; Urban Sociology; Sociology of Development; and Political Sociology.

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

The contents of most of these courses are available on the University website.

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

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

Entrance Examination

The 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 précis writing, a short note (about 150 words) and an essay (about 500 words) on a contemporary social issue or theme.

The **M.Phil.** entrance written test and interview will be based on M.A. level sociological theory and methods, both in the wider context of the discipline and in the specific context of India.

The 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. work. Ph.D. candidates may be required to undertake course work, if recommended by the Department. *The candidate seeking admission to the Ph.D. programme must submit, with their 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 (On sabbatical leave from 1.1.2011 to 31.12.2011)

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

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

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

Readers

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

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.

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

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

Lecturers

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

Satyapriya Rout, Ph.D. (I.S.E.C., Bangalore) – Sociology of Environment, Natural Resource Management and Development, Decentralized Governance.

N. Annavaram - Indian Classical Sociological Thought

Department of Anthropology

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

Programmes of study

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

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

1. Introduction to Social Anthropology
2. Physical Anthropology
3. Archaeological Anthropology
4. Physical and Archaeological Anthropology Practicals
5. Fieldwork 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. Fieldwork Dissertation and Viva-Voce

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

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

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

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

Entrance Examination

The written test for admission into **M.A.** degree course consists of two parts viz., Part 'A' and Part 'B'. Part 'A' consists of objective type of questions for 25 marks. There

is negative marking of ¼ marks for each wrong answer for Part 'A' questions. Part 'B' consists of essay and précis writing, comprehension and analysis of statistical data.

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

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

Faculty Professors

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

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

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

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. (on EOL till 30-6-2011).

Readers

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

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

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

Lecturer

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

Centre for Regional Studies

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

The Centre for Regional studies offers **M.Phil.** and **Ph.D.** programmes in the broad areas of research outlined above. The entrance test (written) for admission to **M.Phil.** and **Ph.D.** programmes consists of two parts. **Part -A** of the question paper will consist of objective type questions to test the aptitude of the candidates to pursue the research in the Centre. **Part-B** consist of a single paper with questions drawn from the Social Sciences of the post-graduate level. (Please note the change in **Part – B** : there will NOT be separate Question papers in the disciplines of Anthropology, Economics, Geography, History, Political Science and Sociology from the Entrance Exam 2011). In their answers students are expected to demonstrate an understanding of multidisciplinary and/or regional studies.

Faculty

Professor

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

Readers

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

Radhika Seshan, Ph.D. (Pune University) - Medieval Indian History, Urban Studies, Economic History of Medieval India

Centre for Folk Culture Studies

In the wake of globalization, Indian culture in general and folk culture in particular needs special attention to safeguard its own identity and heritage. This vital area of

enquiry is now arousing culture consciousness among the zealots of the exotic ranging from corporate groups to that of policy makers and social activists.

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

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

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

Adv. PG Diploma in Folk Culture Studies

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

management for preserving, retrieving and disseminating the data in multimedia formats.

Entrance Examination

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

Ph.D. Programme

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

Objectives of the Course

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

Faculty

Professor

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

Readers

P.S. Kanaka Durga, Ph.D. (Nagarjuna University) - Cultural History; Ethnohistory; Epigraphy; Medieval

Bhakti Literature; Folklife Studies; Folklore and Gender Studies

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

Lecturer

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

Documentation Officer

U.N. Sudhakarudu, M.A. (UoH), 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 Centers set up in the country, being fully funded by the UGC with Faculty positions and Non-teaching staff. It was established in May 2007. Based on the recently originated concept the Centers have been established for undertaking comprehensive studies and research into the Social Exclusion as a complex and multidimensional concept having social, cultural, political and economic ramifications. 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 and superficial equality. Its faint appearance can even be noticed in the strategies of policies and economic growth strategies. This new concept encompasses all forms of discrimination which operate in covert and overt manner on caste, gender, ethnicity, religious and linguistics minorities and other excluded groups such as disabled etc. The Centre, through its research programmes, strives to intervene in policy processes to mitigate the problems of social exclusion and help building the democratic processes. The centre has the following objectives:-

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

Programmes of Study:

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

Prospects for Employment:

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

Entrance Examination:

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

Part A : consists of Objective type questions

Part B : consists of essay type questions to examine the aptitude and analytical abilities of the

Candidate to pursue research programmes in the centre.

Courses offered by the Centre:

S. No	Course No.	Course title	No. of Credits
1	SI-701	Processes of Exclusion and Social groups	4
2	SI- 702	Social Exclusion : Theoretical perspectives	4
3	SI- 703	Research Methodology	4
4	SI-706	Study Area	4

Faculty:

Professor

G.Krishna Reddy, Ph.D. (Osmania University, Hyderabad) (Director of the Centre) - Political Theory, Caste politics in India, Media Studies and Social Movements

Readers

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

Ajailiu Niumai, Ph.D. (J.N.U, New Delhi) - Gender, Non-Governmental Organizations (NGOs) and Development, Child and Society.

Lecturers

J. Rani Ratna Prabha, Ph.D. (University of Hyderabad) - Economics of Discrimination and Child Labour Exclusion

V. Srinivasa Rao, Ph.D. (University of Hyderabad) - Tribal Studies, Scheduled Tribes and Exclusion, Education and Policy Processes and Community Participation.

Rosina Nasir, Ph.D. (University of Delhi)- Anthropological Demography/Population Studies, Health Issues related to Women and Children

Centre for the Study of Indian Diaspora

About the centre

The Centre for the Study of Indian Diaspora was established under the Area Studies Programme of the U.G.C. in 1996 to carry out interdisciplinary research on overseas Indians who today constitutes more than 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.

Objectives

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

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

Programme of study

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

Visiting Fellowships

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

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

Faculty

Prof. E. Haribabu, Ph.D. (IIT Bombay) – Sociology of Science & Technology (**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

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Centre for Knowledge, Culture and Innovation Studies

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

The course work for the Ph.D. Programme:

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

I Semester

Science, Culture and Society

Research Methodology

Science, Technology and Innovation

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

II Semester

Technology, Culture and Society

Science, Technology and Ethics

Science, Technology in the Modern India

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

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

Centre for Human Rights

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

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

India : The Socio-Economic Context and (4) Dalit Human Rights. These courses are offered subject to the availability of the teachers.

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

The **Ph.D.** programme consists mainly of a research project (and course work if required) and a thesis on a topic approved by the Centre. The thesis should be of a high standard and considered to be a valuable contribution to the area of study concerned. Candidates for the Ph.D. programme are required to submit a research proposal for the intended Ph.D. thesis along with the application for admission. The research proposal should contain hypothesis, goals or objectives, statement of the problem and methods of executing the proposal. This is an essential requirement.

Entrance Examination

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

Faculty

Professor

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

Guest faculty

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

Joint Faculty

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

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

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

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

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

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

Centre for Gandhian Economic Thought

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

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

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

and third, non-separation of means and ends or insisting at least as much on the sanctity of means as that of ends.

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

Objectives

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

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

Courses of Study

The Centre offers Ph.D. programme in: Economic thought of Gandhi and Gandhian thinkers; Indian economic thought; Critical economic theory; Economic methodology; and Economic philosophy. The research in the Ph.D. programme will be expected to focus on a critical examination of economic theory, methodology and philosophy from alternative vantage points, such as a Gandhian perspective. The selected candidates will have to take four courses in the first year of the programme.

Entrance Examination

Admission to the Ph.D. programme will be based on a written test (75 marks) and an interview (25 marks) test. The written test consists of TWO parts. PART A will have objective type questions (25 marks) and PART B will have short answer questions (50 marks). In both the parts there will be questions to assess competence in economic theory (mostly microeconomics and macroeconomic), mathematics, and basic familiarity with Gandhian thought as well as current economic affairs. Only those who qualify in the written test will be called for the interview. Those who are qualified in the UGC NET for JRF are exempted from the written test for the Ph.D. programme. Candidates for Ph.D. programme are required to submit a short write up along with applications for admission. The write up should state the kind of research problems in which the candidate is interested.

Faculty

Professors

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

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

Sarojini Naidu School of Arts and Communication

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

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

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

Prof. Vinod Pavarala, Department of Communication is the Dean of the School.

The School comprises the following Departments:

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

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

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

Department of Dance

The Department of Dance offers a two year postgraduate degree (Master of Performing Arts) and PhD. in Dance. The Master of Performing Arts programme is devised to enhance the scholarship of dance in practice and theory, to initiate students into research and teaching, and, to develop an ability to aesthetically appreciate dance as a specialized human endeavor. In the Master of Performing Arts programme, three different specializations, viz., **Kuchipudi**, **Bharatanatyam**, 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 (MPA) 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 works. A project work based on field study using various research methodologies is a part of the course. Arts management, Musical Aspects, Stage Craft & Design and Dance & 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 **Bharatanatyam** 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. Specialised papers on the theoretical construct of the technique and form are also offered.

The **Folk** dance specialization 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. Through the course, there would be opportunities to participate in video seminars, to perform in dance-productions, to create new choreographies and to travel to important performing arts festivals.

The **PhD** programme of the Dance Department, started in 1991, has so far produced 9 Ph.Ds on various aspects of dance. They include historical works, works that explore the evolution, kineshetics and interrelation between various dance forms and works related to dance pedagogy.

Entrance Examination

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

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

Faculty

Professor

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

Readers

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

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

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

Visiting Faculty

Dr. Nataraj Ramakrishna

Dr. Sunil Kothari

Prof. C.V. Chandrasekhar

Dr. Pappu Venugopala Rao

Sri. Kala Krishna

Smt. Chitra Vishweswaran

Dr. B.M.Sundaram

Dr. Daves Soneji

Sri. Narasimha Chari

Ms. Madhavi Puranam

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), Ph.D. (Meerut University) - Scenography

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

Noshad Muhammad, M.A. (National School of Drama), Actor Training (TTRP, Singapore)

Chair Professor

Prof. Mohan Maharishi (Former Director, National School of Drama)

Joint Faculty

Prof. Tutun Mukherjee (from Centre for Comparative Literature)

Guest Faculty

Prof. S. Ramanujam

Ms. Supriya Shukla

Ms. Sharada Natarajan

Ms. Preetham Chakravarthy

Mr. Bhumi Kesav Singh

Mr. Shantanu Bose

Department of Fine Arts

The Department offers a 2 year full time post-graduate degree course, **Master in Fine Arts (MFA)** in the disciplines of **Painting, Printmaking and Sculpture**. Twenty four hour access to studio facilities ensure that concepts and skills acquired at the undergraduate level become tools for building a new level of competence and expertise. A compulsory component of the course is a survey of art history from ancient to contemporary periods of both Indian and Western art. This theoretical foundation

is aimed at providing the student an understanding of art in its total context both material and subjective. The students submit a dissertation on a theoretical topic of their choice towards the end of course. The teaching does not presume to concern itself directly with a young artists work. Teachers incite such works and criticize the end products in a spirit of enquiry.

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

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

MFA in Art History & Visual Studies

Entrance Examination

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

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

Faculty

Professor

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

Readers

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

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

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

Lecturers

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

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

Guest Faculty

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.

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

B. Karuna, MFA Printmaking (University of Hyderabad) Print Making, M.A. (Fine) Museology (M.S. University)

Department of Communication

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

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

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

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

Core courses such as Introduction to Communication, Historiographies of Media, Media Law & Ethics, Introduction to Advertising & Public Relations, Basic

writing skills etc are offered in the first two semesters. Students, according to the stream assigned, will specialize in one of the above four area in the last two semesters (See Entrance 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:

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

Internship Requirement for M.A. (Communication)

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

Infrastructure

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

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

Copyrights

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

Student participation

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

While the Department partially 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. (on leave as Vice-Chancellor of TN Central University)

Venkatesh Chakravarthy, Film Scholar, Chennai

Subbu Vincent, indiattogether.org, Bangalore

Dr. Shilpa Anand, Disabilities Studies Consultant

Nirupam Sarkar, ETV

Other media experts are called for extension lectures and workshops.

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

Readers

P.Thirumal, Ph.D. (Pondicherry University) – Rhetoric of Development, Theory & History of Media. (**Head I/c of the Department**)

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

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

Usha Raman, Print Journalism, Health & Science Communication, New Media and Society

Lecturer

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

Guest Faculty

S.Ramu, Journalist

Pavan Kumar Manvi, ETV Network

Paromita Vohra, Filmmaker, Mumbai

Visiting Professors

Bishwadeep Moitra, Executive Editor, Outlook Magazine, Delhi

Vanita Kohli Khandekar, Media Consultant, Mumbai

Indraganti Mohan Krishna, Film Maker

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

The students are required to get some practical exposure by undertaking eight weeks internship in an organization during the summer intervening between the second and third semesters. These internships are intended to familiarize the students with current management practices, work environment and organizational 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 specializations offered:

- Marketing Management
- Finance Management
- Human Resources Management
- Operations 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.

Minimum Qualifications for Admission

a) M.B.A.

Admissions for the M.B.A. 2011-13 batch with an intake of 60 students are underway on the basis of CAT-2010 scores (for those candidates who had applied to the University of Hyderabad) in addition to on-campus group discussion and interview of the short-listed candidates.

Eligibility for 2012-14 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 July 2012. Those completing their final examinations by July 2012 can also apply.
2. They should appear in CAT-2011, conducted by the IIMs, in November/December 2011.
3. They should also apply separately to the University of Hyderabad by November/December 2011.

For admission to the 2012-14 M.B.A. batch, interested applicants should watch for the School's advertisement/press release in September/October 2011 in leading national newspapers and the University's website. They can plan to appear in CAT 2011, and apply to the University by November/December 2011. A separate MBA Prospectus for the year 2012-13 together with the programme details and the Application Form for admission during the Academic year 2012-13 will be available in electronic and print form in September/October 2011.

Candidates are required to pay an amount of Rs.14,300/- (may be revised) 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 : 2011-13 MBA Batch

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

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

Interested students should submit an application with full personal details, summary of academic records from high school onwards, attested copies of mark-sheets and TOEFL (or equivalent) scores, a brief (200 to 300 words) statement of purpose for pursuing the course, names and contact addresses of at least two referees, by **April 15, 2011** at the latest. They should also ensure that, if admitted, they can join the programme by mid-July, 2011 at the latest.

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.

c) Ph.D. Programme (Full time)

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

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

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

Applicants will be required to submit, along with the application, a brief tentative proposal (about 500 words) on their proposed topic of research.

Applicants satisfying the minimum qualifications will be required to take a written entrance test, which is in objective type to be answered in OMR sheet and the short listed candidates will be required to appear for an interview.

The written test will carry 75% weightage, and the interview 25% weightage 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 75 marks for the written test. They will however have the option to appear in the written test to secure more than the assigned marks.

Ph.D. Part time admissions 2011

The candidates having Master's degree with a minimum of 55% marks or its equivalent in Management or any related/allied areas and with a minimum of 10 years of professional experience may be considered by the School for admission to Ph.D. programme of the School under part time scheme to a limited extent. The qualifications as laid down for the regular Ph.D. program also apply for this programme. 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.

- i) All candidates who are applicants for the part time Ph.D. programme must necessarily clear the screening test which shall be conducted by the School separately.
- ii) On clearing the screening test, the applicants will be required to make the presentation about the research proposal to the members of the Admission Committee of the School.
- iii) All other rules and regulations pertaining to the admissions as stipulated by the UGC shall apply to the part time Ph.D. students.

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

The School has launched a unique MBA program (Health Care & Hospital Management) from the academic year 2008-09. The two year (four semesters) programme is offered in collaboration with the School of Medical

Sciences of the University and other leading hospitals 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 healthcare 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 is offered to prepare students to contribute effectively in different areas of healthcare and hospital management. It focuses on developing excellent managers with the desired professional skills to take up 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 broad mission is to prepare competent and trained hospital management professionals in a synergistic learning environment having strategic alliances with leading healthcare institutions in India and abroad. The major focus is on enhancing and enabling the existing mechanisms engaged in management of healthcare sector in India through capacity building programmes, dissemination of knowledge through continuous interaction between academia and industry, and to promote developmental activities in health care sector.

Objectives

The programme and the pedagogical techniques are designed to develop effective communication, analytical,

and problem solving skills among the participants and empower them to meet the challenges 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, inculcating values and ethical practices
- To provide the necessary skills and knowledge for practical orientation and implementation of strategies in relation to modern hospital / health care management practices

Highlights of the Programme

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

Course Curriculum and program delivery

The course curriculum 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 students with key inputs from the **Faculty** of the school and other visiting Faculty with supplementary inputs from industry professionals. The programme would be run in active association and collaboration with the

School of Medical Sciences so that necessary expertise can be drawn from the school.

Program Pedagogy

The teaching/learning methodology 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

During the period of study, the student will be required to carryout a 8 weeks summer project after completion of the II semester and final internship project work in any health care institution in the final semester. Efforts would also be made to provide the students a continuous learning opportunity through short term projects and 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 **Chapter 2** this brochure.

Faculty

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

Professors

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**)

V. Sita, M.A., (Osmania) M.Phil, (Hyderabad), Ph.D. (Osmania) - FDP(IIM, Ahmedabad), PGDHRM – Public

Policy, Human Resource Management, E-Governance, entrepreneurship & Women Studies.

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

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**).

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

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

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

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

Sapna Singh, MBA (Osmania), Ph.D (Management – Osmania) – Marketing, HRM & Branding.

Lecturers

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

K. Ramulu, M.Com (Kakatiya University), MBA-Finance (Dr.B.R.Ambedkar Open University, Hyderabad), M.Phil (Nagpur University) and Ph.D (Kakatiya University) – Materials Management-Financial Management/Financial Accounting, Management Accounting, Financial Risk

Management, Security Analysis and Portfolio Management, Financial Markets and Institutions.

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

1. **Mr. Peter Hassan**, Senior Management Consultant & Honorary Russian Consulate, Hyderabad
2. **Mr. King Shuk Nag**, Resident Editor, Times of India, Hyderabad
3. **Prof. Furqan Qamar**, Vice-Chancellor, Central University of Himachal Pradesh, Himachal Pradesh
4. **Mr. Venkat Changavalli**, Director, Management Consultant & Director, State Bank of Hyderabad

Some of the Key invited Adjunct & Visiting Faculty are:

Prof. Arun K Tiwari, Managing Director & CEO, Indo-US Health Care Private Limited. He was the Director of the Cardio Vascular Technology Institute at Hyderabad. Prof. Arun K. Tiwari is the co-author of 'Wings of Fire', the autobiography of Bharat Ratna A.P.J. Abdul Kalam. A recipient of the Defence Technology spin-off award for the development of an indigenous coronary stent known as Kalam-Raju Stent. He visited many countries and presented various research papers at the International Conferences.

Mr. Muntasir Ahmed, I.R.S., Visiting Faculty – Former Director General of Income Tax, Hyderabad. In addition several local and international senior managers and management experts are regularly invited to interact with the students as Guest Speakers.

School of Medical Sciences

The School of Medical Sciences was established with a mission to “Promote, Nurture and Achieve excellence” in frontier areas of Medical and Health Sciences by offering novel teaching and research programmes. The School has a Scientific Advisory Council-cum-School Board which has eminent biomedical scientists from India and abroad as its members. The School collaborates with the School of Life Sciences and other Schools and Centers of the University involved in Health Sciences research. The School has access to State-of-the-art research infrastructural facilities of the Schools and Centers of the University. The School of Medical Sciences has several Adjunct, Joint and Visiting Faculty from the University and other Institutes who actively participate in the multi-disciplinary teaching and research programmes. The School has established academic and research partnership with reputed Institutes recognized by the University like LV Prasad Eye Institute, Care

Foundation, etc. The School has also established memorandum of understandings (MoU) with University of Arkansas for Medical Sciences (UAMS), Little Rock, Arkansas, USA and George Institute for Global Health for academic and research activities. The School offers the following academic programmes:

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

1. (b) 5-year Integrated M.Sc. course in Nursing Sciences: The course is offered in collaboration with Care Foundation/Hospital and other specialty hospitals in Hyderabad. The students receive specialized teaching in Medical Sciences, humanities and management along with extensive training in clinical nursing skills so as to enable them to perform ably in nursing care and Clinical research. The eligibility for admission to the course is based on a written test followed by an interview. The written test paper based on XII Board syllabus will have a total of 75 objective type questions in Biology, Chemistry, and basic Medical Sciences.

The School also offers courses for Integrated MSc in Health Psychology offered by Center for Health Psychology.

2. Ph.D programme

Requirements: : Candidates who are qualified in the NET examination conducted by CSIR-UGC JRF/ICMR-JRF/DBT-JRF with an M.Sc. in Biochemistry/ Animal Sciences/ Biotechnology/ Biosciences/Toxicology/ Microbiology / M.Pharm/M.Sc (Optometry)/ M.Sc (Nursing) and or related fields are eligible to apply and the shortlisted candidates will be called for an interview. There is no written test for admission during 2011-12. Candidates having MBBS/MD are highly encouraged to apply in the areas of the expertise of the faculty.

Faculty

Professor

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

Readers

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

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

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

Lecturer

Manchana Varalakshmi, MSc (Nursing)

Ad-Hoc faculty

R. Sarath, MBBS, MD (Physiology)

N. Geetha Reddy, MSc (Nursing)

S. Lokanadham, MSc (Anatomy)

Janitha P.A, M.Optom (Optometry)

3. The Centre for Physical Fitness and Sports Sciences

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

The Objectives of the Centre are:

a. To offer academic programs to promote Physical Wellness

- b. To disseminate Physical Wellness concept and its importance to the society
- c. To develop Physical fitness movement and to highlight the essentiality of sponsoring the Sports and Physical Fitness Culture on Scientific lines

The centre offers the following Academic Programme:

P.G. Diploma: One year postgraduate Diploma in Health Fitness and Lifestyle Management which is fully funded by the UGC under Innovative programs of National priority. This is a unique program which blends Physical Wellness concepts with Lifestyle Management skills. The objective of the course is to train Fitness management professionals with adequate knowledge in various Physical Fitness and Lifestyle management practices using an optimum blend of theory and practicals.

Any graduate with a minimum of pass is eligible for admission based on an entrance examination. The entrance examination will have three parts- written test (75 marks), physical fitness test and interview (25 marks).

The question paper for the written test will consist of multiple choice objective type questions in human anatomy, physiology, exercise and fitness science, wellness concepts and aptitude. Based on the order of merit in the written examination, the candidates will be called for a physical fitness test. Those who qualify in the fitness test with stipulated minimum performance standards only will be eligible to appear for the interview.

A weightage of 5 marks will be given to the Graduates and Post Graduates of Physical Education (Five marks to be added to the total marks obtained in the entrance examination after the interview).

Faculty

K.V. Rajasekhar (Asst. Director, Sports Centre)- Exercise Science, Exercise Kinesiology, Physical Education and Fitness studies, Cardio conditioning (**Coordinator of the Course**)

VVBN Rao, Exercise Science, Yoga, Fitness Studies

T. Anupama Row, Human Anatomy, Human Physiology, Pathology of degenerative diseases and exercise
Sathyalakshmi, Interactions of Yoga practices with health physiology

K. Siva Kishore, Lifestyle for Health promotion, Cardio and Strength conditioning (**Temporary**)

School of Engineering Sciences and Technology (SEST)

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

SEST is already on course to put in place an ideal framework to facilitate integration of science into technology. It collaborates closely with premier research institutions in the vicinity and some of them, such as the Defence Metallurgical Research Laboratory (DMRL), Indian Institute of Chemical Technology (IICT), International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI) and Nonferrous Materials Technology Development Centre (NFTDC), have been formally recognised as its external research centres. Additionally, SEST is forging close linkages with diverse Indian industries, too, in an effort to build a vibrant program spanning high-quality scientific and applied research. While a few full time faculty members have already been appointed and SEST also benefits

greatly from the association of three Chair Professors of great eminence; the process of adding several other highly qualified teachers and researchers is presently in progress. In the meantime, the School has been able to attract some renowned experts from DMRL, NFTDC, IGCAR, BARC, ARCI, NFC etc. as Guest Faculty to participate in student teaching and ensure that high quality knowledge is imparted to its students from inception.

Infrastructural Facilities

Pertinent facilities relating to the areas of solid state physics, solid state chemistry, nano-technology, thin films, material characterization etc. are already available at the University to be accessed by the School. Apart from a recently acquired Transmission Electron Microscope, these include other key characterization facilities like X-ray diffractometer, Scanning Electron Microscope, Vibrating sample magnetometer, Spectrophotometers etc. Core infrastructure has been set-up at SEST in identified areas for teaching and research purpose. Several advanced research facilities are being established with the grants provided by UGC for Pursuing University Research for Scientific Excellence. These facilities will be commissioned by July 2011. An opportunity to also use a wide array of sophisticated and unique materials processing and characterization equipment existing at SEST's external research centres opens up exciting possibilities to address cutting-edge research. Between a top class library on campus and those at neighbouring research laboratories, students have access to one of the largest collection of books and journals related to Materials Sciences & Engineering. A new building to house SEST, keeping in view its future expansion plans, is also to be ready soon. Thus, the University is already taking all essential steps to establish SEST as an excellent seat of learning for post-graduate education and research in engineering.

Programmes of Study

(A). Integrated M.Tech./Ph.D., Ph.D. in Materials Engineering

The School admits students to the Integrated M.Tech./Ph.D. programme in Materials Engineering as well as separately for a Ph.D. programme in Materials Engineering.

The School presently offers an **Integrated M.Tech./Ph.D. programme in Materials Engineering**. Students admitted to this programme have the option of continuing to the Ph.D. programme. Continuation to Ph.D. course will be based on the performance in M.Tech. course. The M.Tech. programme is of two year duration, of which the first two semesters will be devoted to course work. The curriculum lays an emphasis on giving a broad exposure to all aspects of Materials Engineering, consistent with interdisciplinary nature of the subject today, and students also take elective courses. The balance of the two-year period will be spent by students on a research project leading to a dissertation, which will have to be defended in a viva-voce examination. A comprehensive Viva-Voce examination will be conducted at the end of the first year and prior to commencement of the research project. The project work can either be done within the University or at one of the recognized external institutions, or at an R&D Laboratory, or at an industry. This gives the students freedom to pursue research in a variety of specialized areas within the broad theme of Materials Science and Engineering.

The **Ph.D.** programme is entirely research oriented. The student will be provided an opportunity to undertake research under the guidance of a Faculty member of the School in an area of his/her choice and approved by the School. The student will be periodically advised by a doctoral committee. Students admitted to the Ph.D. programme will be required to undergo some course work depending on their background or take certain additional courses to meet the demands of their research. The research work, in part or in entirety, can be carried out either within the University or at one of its formally recognised external research centres. The students are

expected to actively participate in research seminars and submit monthly progress reports of their research work. The Ph.D. requirements also include presentation of the research work in a comprehensive seminar prior to submission of the doctoral thesis and a subsequent oral examination in support of the thesis.

Entrance Examination

I. Admission to Integrated M.Tech./Ph.D. in Materials Engineering:

Admission shall be based on a written test followed by an interview for short-listed candidates.

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

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

Admission shall be based on a written test followed by an interview for short-listed candidates.

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

All the candidates with B.E./B.Tech./ M.Sc/M.E/ M.Tech. degree seeking admission into Ph.D programme will have to qualify in a written test and will be short-listed for interviews based on their performance in the written test. Each admitted regular, full time Indian student will be paid a Fellowship/Scholarship as per the existing rules of the University.

Course Work Requirements:

Candidates admitted to the Ph.D. programme with B.E./B.Tech./M.Sc. or an equivalent degree will be required to undergo a mandatory two-semesters of core

course work, besides any additional courses that may be recommended by the doctoral committee to meet the demands of their research.

III. External Ph.D. Registration:

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

Candidates admitted under this category shall be free to work at one of the School's formally recognized external research centres under joint supervision of a faculty member from the University and an approved Ph.D. supervisor from the recognized institution.

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

IV. Sponsored Candidates:

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

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

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

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

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

V. Foreign Candidates:

Foreign nationals seeking admission to the M.Tech./Ph.D. (Materials Engineering) programme should also possess

the requisite qualifications as in the case of regular students.

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

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

The candidates who are granted admission shall be required to pay in Indian Rupees a one-time sum towards the development fund of the department, as per the amount decided by the University..

(B). Integrated M.Tech/Ph.D.in Nano Science and Technology:

The School is also offering **Integrated M.Tech/Ph.D in Nano Science and Technology** from Monsoon semester of 2010-11.

Students admitted to this programme have the option of continuing to the Ph.D. programme. Continuation to Ph.D course will be based on the performance in M.Tech course. The M.Tech. programme is of two year duration, of which the first two semesters will be devoted to course work. The curriculum lays an emphasis on giving a broad exposure to all aspects of Nano Science and Technology, consistent with interdisciplinary nature of the subject today, and students also take elective courses. A comprehensive Viva-Voce examination will be conducted in the course work that has been offered in the first year prior to commencement of the research project. The balance of the two-year period will be spent by students on a research project leading to a dissertation, which will have to be defended in a viva-voce examination. The project work can either be done within the University or at one of the recognized external institutions, an R&D Laboratory, or an industry. This gives the students freedom to pursue research in a variety of specialized areas within the broad theme of Nano Science and Technology.

(i). Admission for Integrated Integrated M.Tech./Ph.D. in Nano Science and Technology

Admission shall be based on a written test followed by an interview for short-listed candidates.

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

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

Admission shall be based on a written test followed by an interview for short-listed candidates.

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

All the candidates with B.E./B.Tech./M.Sc/M.E/M.Tech. degree seeking admission into Ph.D programme will have to qualify in a written test and will be short-listed for interviews based on their performance in the written test.

Each admitted regular, full time Indian student will be paid a Fellowship/Scholarship as per the existing rules of the University.

Course Work Requirements:

Candidates admitted to the Ph.D. programme with B.E./B.Tech./M.Sc. or an equivalent degree will be required to undergo a mandatory two-semesters of core course work, besides any additional courses that may be

recommended by the doctoral committee to meet the demands of their research.

(iii). External Ph.D. Registration:

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

(iv). Sponsored Candidates:

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

(v). Foreign Candidates:

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

Faculty

Professors

K.Bhanu Sankara Rao, Ph.D. (Madras) (**Dean of the School**)

Reader

Dibakar Das, Ph.D (IIT Bombay)

Lecturer

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

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

Pradip Paik, Ph.D (IIT, Kanpur)

Chair Professors

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

A. K. Bhatnagar, Ph.D. (Maryland), S. Chandrasekhar Chair Professor

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

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

INAE-AICTE Distinguished Visiting Professor

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

Guest Faculty:

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

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

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

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

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

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

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

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

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

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

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

G. Padmanabham, Ph.D, ARCI, Hyderabad

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

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

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

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

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

M.Vasudevan, Ph.D (IIT Madras), IGCAR, Kalpakkam

V.S.Raghunathan, Ph.D (IISC Bangalore), IGCAR,
Kalpakkam and University of Hyderabad (Retd.)

M. Sundararaman, Ph.D (Bombay), BARC, Mumbai

V.V. Kutumba Rao, Ph.D (Banaras), BHU, Varanasi
(Retd.)

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

STAND ALONE CENTRES

Centre for Integrated Studies (CIS)

Introduction

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

Courses offered by the Centre

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

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 essential.

I.M.Sc. Programs from the Science Schools.

The four Science Schools of the University offer Integrated Master of Science Programs, Chemical Sciences, Mathematical Sciences, Physics and Systems Biology, through the Centre for Integrated Studies (CIS). The programs are open to all students who have completed/expect to complete +2 stage with at least three of the above subjects as their optionals with a minimum of 60% at +2 level. The curriculum is common to all the disciplines for the first four semesters. Students with Biology background in the +2 stage and had left Mathematics after the 10th class are expected to put in the necessary effort to learn Mathematics. Similarly students who left Biology in the +2 stage are expected to learn Biology. The University offers Bridge courses in the first

semester to facilitate this process. The students are transferred to their parent departments at the end of the fourth semester.

The admission to I.M.Sc. in Sciences (Mathematical Sciences, Physics, Chemical Sciences, and Systems Biology) will be through a common entrance examination. The entrance examination consists of two parts : a written test for 75 marks and an interview for 25 marks. The written test paper contains 25 objective questions each in Maths, Physics, Chemistry and Biology, at +2 level, and the candidates are required to answer any 75 questions. The questions carry negative marks. Based on their performance, shortlisted candidates will be called for the interview.

Candidates holding KVPY fellowship or qualified in Science Olympiads (those who have attended the training program atleast), and those who are placed in the main list of IIT, JEE or State Rank holders can seek exemption from the written test. They are awarded the average mark of the first 64 candidates of the written test of the university in lieu of the written test marks.

I.M.Sc. Program in Health Psychology

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

The admission to the Health Psychology program is through a written test (75 marks) followed by an interview (25 marks). The written test includes aptitude testing for Psychology, Biology and mathematics at +2 level and

proficiency in English. All the questions carry negative marks.

I.M.A. Programs from the School of Humanities.

The School of Humanities offers Integrated Master of Arts program in four disciplines, Hindi, Telugu, Urdu and Language Science. All students with a minimum of 60% marks in +2 stage are eligible to apply. The students spend the first three years at the CIS where they are exposed to the basics of several disciplines to provide them a broad foundation. They are transferred to their parent department after the Sixth Semester.

Entrance Examination

There will be a common entrance test for admission to I.M.A. in Humanities. The question paper will be objective type consisting of three parts, Part A, B, and C. In Part A, there will be 40 questions of one mark each to test the competence in the concerned subject. In Part B, will have 35 questions of one mark each to test the competence in English. In Part C, will have 25 questions of one mark each to test the competence in the current affairs and general knowledge. Students should choose Part A (Telugu, Hindi, Urdu, and Language Science) according to their options. Questions in Parts B and C will be in English and in Part A, the questions will be in English for Language Science students and in Telugu/Hindi/Urdu for those who opt for Telugu, Hindi, Urdu respectively.

I.M.A. Programs from the School of Social Sciences.

The School of Social Sciences offers integrated Master of Arts program in five disciplines, Anthropology, Economics, History, Political Science and Sociology. All students with a minimum of 60% at +2 level are eligible to apply. The students spend the first three years of their program at the Centre for Integrated Studies (CIS). They make their choice at the end of third year regarding the discipline in which they get their degree after fulfilling the minimum number of credits specified by each department.

There will be a common entrance test for admission to the IMA Courses in Social Sciences. Written test carries 100 marks. The test consists of (a) Social Studies and General

Awareness (25 marks) (b) Language and Comprehension (25 marks), (c) Reasoning Abilities (25 marks), and (d) Quantitative Aptitude (25 marks). There is negative marking. Each wrong answer carries -0.33 marks.

Note: *There is no interview for admission to IMA in Humanities and Social Sciences.*

Courses of study : IMA Humanities and Social Sciences Programme

Courses of study for students of Integrated M.A. in Humanities and Social Sciences at the Centre for Integrated Studies (CIS) are common in first year. These will be introductory and foundational in nature and will all be taught courses, viz., English, I.T., Indian Languages, Indian Literature, Comparative Literature, Anthropology, Economics, History, Political Science and Sociology. In the second year, a student opting for Humanities has a choice of three courses from the School of Humanities and one from the School of Social Sciences. Students opting for Social Sciences will follow a similar pattern. At the end of the second semester (First year), depending on the vacancies, a student can exercise his/her option of change of programme/subject after following the prescribed formalities. During the third year, a student has to select any two clusters of two courses each (one as main and the other as the next option) and one course either from Humanities/Social Sciences or from other Schools in the University.

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 2 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 26 centres as at **Chapter 2** of this brochure. Where interview is part of admission test, only such candidates who are found successful in the written test will be called for the interview to be held at

University Campus, Gachibowli, Hyderabad – 500 046.

- b) The written test will be in the form of 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) Weightage for written test and interview are as follows:
 - (i) Humanities and Social Sciences - written test 100 marks; No Interview
 - (ii) Other Disciplines - written test 75 marks; interview 25 marks;

Other weightages

- a) Weightage for distinction in Sports/Cultural activities will be given as stated at **Chapter 2** of this brochure.
- b) KVPY Scholars, participants of National Olympiad and the 1st rankers of different Boards at +2 level are exempted from the written test. They are awarded the marks equal to the average of the first 64 students from our entrance examination in lieu of written test.
- 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:* 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:* 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 **Chapter 2** of this brochure.

University Centre for Earth and Space Sciences (UCESS)

Centre for Earth and Space Sciences (CESS) 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 the Faculty of Physics, Chemistry, Life Sciences, Computer Sciences and Centre for Modeling and Simulation Design (CMSD) on the campus of the University of Hyderabad, and with national laboratories such as National Geophysical Research Institute, Atomic Minerals Directorate, Baldota Industries and National Mineral Development Corporation Ltd., besides overseas institutions such as the University of London, and University of California (San Diego Supercomputer Centre).

UGC has recognized the Centre and granted Faculty and research fund through their Innovative Research Program.

Programmes of Study

The Centre offers one-year and two-years duration postgraduate programmes in collaboration with the National Geophysical Research Institute, Atomic Minerals Directorate 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.

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. **The admission is for both sponsored and non-sponsored candidates. Selection of candidates for admission will be based on their academic qualifications, written test and interview. ‘GATE’ qualified candidates will also be considered, and such candidates are exempted from written test, but they need to attend the interview. The performance in the interview will carry marks. Therefore, eligible and interested candidates are encouraged to apply.** Sponsored candidates (or sponsoring agency) will pay fees as stipulated by the University. The geophysical field work expenses will be borne by the respective sponsoring organization.

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

host organization of the sponsoring candidates or at any recognized R&D lab/industry.

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

Fellowships

Non-GATE and non-sponsored candidates are eligible for University Fellowships as per regulations, and also for the fellowships sponsored by the Industry (likely sponsors – Baldota Foundation, NMDC) to pursue M. Tech in Mineral Exploration. The fellowship amount covers stipend of Rs.5,000/- per month and field work expenses.

Advanced P.G. Diploma in Mineral Exploration

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

Ph.D. in Earth and Space Sciences

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

Laboratory and Computer Facilities

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

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

Field work: Students would be undergoing 10 weeks of intensive field training programme with emphasis on geophysical exploration techniques under the supervision of experts from AMD, NGRI, University of Hyderabad etc.

Activities of the Centre

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

Research

The Centre currently executes research projects in water resources management, ocean processes, ocean models and climate forecasts, paleoceanography, mineral exploration, and environmental sciences (funded by UPE, UGC, MoES, ISRO, NRB, PURSE Grant etc.).

Out-reach Programmes

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

Workshops/Training Programmes

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

designed to enhance competence to develop new-cutting edge technologies.

Faculty

Prof. A.C. Narayana, Earth Sciences (**Director of the Centre**)

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

Dr. S. Sri Lakshmi, Geophysics

Prof. D. Arun Agarwal, Computer Sciences

Prof. K.P.N. Murthy, Physics

Prof. C. Raghavendra Rao, Computer Science

Dr. Rajeev Wankar, Computer Sciences

Faculty from the Schools of Physics, Mathematics, Statistics and Computer Sciences, Life Sciences, and Chemistry of University of Hyderabad.

Adjunct Professors

Dr. V.P. Dimri, Geophysics, National Geophysical Research Institute

Dr. R.R. Navalgund, Remote Sensing, Space Application Centre, Ahmedabad

Visiting Professors

Prof. J.N. Walsh, Environmental Geochemistry, University of London

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

Dr. Shailesh Nayak, Secretary, Ministry of Earth Sciences

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

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

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

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

Guest Faculty

Scientists from Atomic Minerals Directorate

Scientists from National Geophysical Research Institute

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

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

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

Prof. Vishwas Kale, University of Pune, Pune

Prof. A. Narayana Swamy, Geophysics, Andhra University

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

Prof. S. Murali, Geophysics, Osmania University

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

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

Dr. Kalachand Sain, National Geophysical Research Institute

Sri. M.V. Ramakrishna Rao, formerly from GSI and faculty from National R&D Labs and Universities from India & Abroad

Industry

Dr. V. Kolla, Houston, Oil Exploration

Dr. Ravi Bastia, Reliance, Oil Exploration

Advanced Centre of Research in High Energy Materials (ACRHEM)

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

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

applied areas of Physics, Chemistry, Mathematics and Statistics of processes involved in High Energy Materials.

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

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

Programs of Study:

Ph.D.: Admission to the Ph.D. programme is open to M.Sc., M. Phil. and B.E./B.Tech. qualified students. This is a research programme with students undertaking research under the supervision of faculty member, on a topic approved by the Centre. The student is required to show satisfactory progress throughout the period of research as well as fulfill other requirements prescribed by ACRHEM. Requirements for successful completion of the programme leading to the award of a Ph. D. degree in physics, chemistry or mathematics, include submission of research results in the form of a thesis and defense of the thesis in a viva-voce examination. Approximately 10 Ph. D. positions are available during the 2011-12 academic year.

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

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

Entrance Examination:

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

Infrastructural facilities:

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

1. Ti:sapphire femtosecond oscillator [MICRA, Coherent] and femtosecond/picosecond amplifiers (~2.5 mJ) [LEGEND, Coherent] with OPA [TOPAS/DFG, Light Conversion, tunable from 250 nm to 20 μ m]
2. High power Nd:YAG nanosecond laser system with fundamental, second, third and fourth harmonics (Innolas, 1.3 J in fundamental); Dye laser system (Radiant Dyes) pumped by Nd:YAG laser along with frequency mixing option tunable in the range of 300 nm to 3.0 μ m
3. Dynamic vibration isolation optical tables (Newport SmartTableTM); Low power and High power He-Ne lasers
4. Diode lasers (high power and tunable), Three dimensional nanopositioners, Power/Energy meters, Delay stages and controllers.
5. Boxcar Integrator, Single Shot Autocorrelator, Fast photodiodes, lockin amplifiers, high-power ns/ps/fs optics.
6. Fully fledged synthetic chemistry labs including equipment such as Dynamical Mechanical Analyzer, Bomb Calorimeter, Fume Hoods etc.
7. Hand-held Spectrometers, Fast oscilloscopes, CCD/Vidicon cameras, mid-IR detectors, Single photon detector etc.
8. Mercury Cadmium Telluride Detector (up to 26 μ m), IR Viewer, Laser Beam Profiler.
9. Intensified CCD's integrated with Michelle spectrograph.
10. Tunable Ti:sapphire oscillator (Chameleon, ~140 fs pulse duration) and pulse shaper (Sihouette, Coherent)
11. High power picosecond laser system (80 mJ, 30 ps).
12. Tunable diode laser in the telecommunications spectral range
13. Waveguide/Fiber Optic stages for critical alignment.
14. Optical Spectrum Analyzer (Yokogawa)
15. Low temperature optical cryostat.

16. Vacuum chambers, Spin Coaters, Material characterization facilities.
17. Electron beam gun, RF Sputtering, Thin film fabrication facility etc.
18. R.F. Spectrum Analyzer with antennas (1 MHz – 330 GHz)
19. Several UPS Systems
20. High energy (100 MJ) PS laser System (30 ps)

Computer & Library Facilities:

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

Faculty

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

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

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

Dr. S. Venugopal Rao, Ph.D. (Hyderabad) - Nonlinear Optics, Decomposition of High Energy Materials using ultrafast spectroscopy, Nanophotonics, Ultrashort laser pulses, Femtosecond laser direct writing. (Experiment)

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

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

Dr. B. Ashok, Ph.D. (Massachusetts Amherst, USA) - Theoretical Soft Matter Physics, Polymer Physics & Complex Fluids, Instabilities, Nonlinear Dynamics of

Complex Systems, Sonoluminescence & Cavitation. (Theory)

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

Associate Faculty

Chemistry:

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

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

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

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

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

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

Physics:

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

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

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

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

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

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

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

Mathematics, Computer & Information Sciences:

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

Centre for Health Psychology

Health Psychology is a holistic approach to Health and Well being. The holistic approach shifts the emphasis of health from biomedical to biopsychosocial model. Health Psychology is the field within psychology 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 illness; the etiology and correlates of health, illness and dysfunction and improvement of health care system.

Prospects of Health Psychologists

- They work closely with medical professionals
- They can also work independently as Consultant Health Psychologists
- They can do research and examine the interaction of biological, psychological and social factors affecting health and illness
- They provide counseling for 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.

Infrastructure

The Centre is equipped with a Experimental Laboratory, Counseling Laboratory and Behaviour Technology Laboratory. The Experimental Laboratory has modern instruments and about 200 standardized psychological tests. The Counseling Laboratory is a state-of-the-art laboratory to train the students in micro skills of counseling. The Behaviour Technology Laboratory trains students in relaxation therapy using Biofeedback, Neurofeedback and other relaxation techniques. The facilities include a number of equipment for Behaviour Therapy.

Programmes of the Study

The Centre offers Five Year Integrated M.Sc., in Health Psychology, Two year M.Sc in Health Psychology, P.G. Diploma in Counseling Psychology, and Ph. D Programme in Psychology.

Entrance Examination

Admissions for all the courses are through national level entrance examination. The entrance test comprises of a written test followed by an interview.

- 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 into **M.Sc.** Health Psychology will assess their knowledge in Psychology 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.

Faculty

Professor

Prof. Meena Hariharan, Ph. D. (Utkal) – Health Psychology, Coping with Stress Psychology of Resilience
(**Director of the Centre**)

Lecturers

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

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

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

Dr. B. Sushma, M.A., Ph.D. - Health Psychology, Well being, Stress and Resilience, Educational Psychology

Dr. Suvashisa Rana, M.A. (Gold Medal), M.Phil., B.Ed. (SE-MR), Ph.D. - Developmental and Educational Psychology, Indian Psychology, Social Psychology and Peace, Rehabilitation Psychology, Health Psychology

Visiting Faculty

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

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

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

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

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

Guest Faculty

Prof. Ahalya Raguram, Head, Department of Mental Health and Social Psychology

NIMHANS, Bangalore

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

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

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

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

Dr.Saroj Arya, Clinical Psychologist, NIMH, Hyderabad

Dr.Niranjan Reddy, Clinical Psychologist

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

Centre for Neural and Cognitive Sciences

The Center for Neural and Cognitive Sciences is an interdisciplinary research center focusing upon the areas of linguistic cognition and cognitive systems. A truly interdisciplinary center, it brings together Faculty and

researchers from various disciplines such as physics, linguistics, computer science, neurobiology and philosophy to ponder upon the nature of cognition. Within the short span of its existence the center has received considerable international attention. The Center is in the process of setting up a well-equipped laboratory with computing, ERP and eye-tracking equipment, and offers research programs in neural and cognitive sciences at the M.Phil. and Doctoral levels. The Center has been offering post-graduate courses at the interface of linguistics, philosophy and neurosciences for students majoring in the sciences and the humanities. It has received generous assistance from the University Grants Commission towards major research projects and infrastructural facilities under their Innovative Programs Scheme. The Center is on the network of the National Initiative of the Department of Science and Technology on Cognitive Science Research and has received substantial grants from them.

Professor Vipin Srivastava is the Coordinator of the Center; **Professor Gautam Sengupta** and **Professor S. Bapiraju** are the Associate Coordinators.

Programs of Study

The M.Phil. programme in Cognitive Science consists of 16 credits of course work followed by a dissertation. The course work, to be completed within one semester, covers the following topics:

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

The Ph.D. programme in neural and cognitive sciences involves an additional 16 credits of dissertation-oriented readings in the second semester of the program, followed by a dissertation.

Eligibility for Admission

For M.Phil. and Ph.D.: Master's degree in any discipline in the Humanities or Social or Natural Sciences with at least

55% marks. Selection is made on the basis of a written test followed by an interview. The intake for M.Phil. and Ph.D. for the 2011-12 academic year would be 8 and 3 respectively.

Faculty

Professor Vipin Srivastava, School of Physics
(Coordinator of the Centre)

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

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

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

The following faculty members in various Schools and Departments are also associated with the Centre: **Professor A. K. Pujari**, Department of Computer and Information Sciences (on leave)

Professor Amitabha Das Gupta, Department of Philosophy

Professor P. Prakash Babu, Department of Biotechnology

Dr. Prajit K. Basu, Department of Philosophy

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

Dr. S. L. Sabat, School of Physics

Dr. S. K. Udgata, DCIS

Dr. Somsukla Banerjee, CALTS

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

Centre for Women's Studies

The Centre for Women's Studies (CWS), at the University of Hyderabad is an interdisciplinary centre in the Schools of Social Sciences, Humanities, Performing Arts, Communication, Management, and Natural Sciences. It is a stand alone centre collaborating with different faculty and schools. It has a Advisory Board comprising of members from different Schools, and members from different Organizations and Universities, to run its day to day affairs. The University of Hyderabad had a Women's Studies Cell that has been operational since 1984. This was alternatively located in the School of Social Sciences and School of Humanities. The Cell offered a course titled

Social Construction of Gender as an optional course for M.A. It successfully organized various seminars and workshops and carried out many Projects. This Cell has now been upgraded to a Centre from June 2007 onwards.

Aims and Objectives

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

Programme of Study

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

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

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

Entrance Examination

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

M.Phil. and Ph.D. courses must also take a Viva-Voce examination.

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

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

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

Areas of Research

- Population and Reproductive Health, Women and the Environment, Women and Development, Problems of the Girl-child, Gendered Economics, Feminization of Agriculture, Women in Sciences, Gender Violence, Women, Society and Law, Women and religion, Women's History, Women's Movements.
- 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, Women and Politics.

Faculty

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

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

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

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

Jyoti, Ph.D. (Osmania University): Organizational Behaviour, Human Resource Management, Organizational Development, Entrepreneurship

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

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

M.N. Rajesh, Ph.D. (JNU, Delhi) – Medieval Indian History, Women, Tibetan History and Culture, Globalization and Information Technology and Women

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

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

Centre for Buddhist Studies

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

Making Social Thinkers of India Project for Centre for Buddhist Studies since March 2010.

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

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

Programmes of Study

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

As of now 50% of the students registered for Ph.D. in Buddhist Studies are from overseas.

The centre also announces the introduction of the M. Phil programme in Buddhist Studies from July 2012. The admitted candidates will be required to pass *four* 4-credit courses before writing a dissertation on a topic with prior approval of the Supervisor(s) appointed by the centre; and shall submit the thesis for examination as per the university rules.

The duration of the course is of one academic year.

Entrance Examination

The centre conducts an All India Entrance Examination through the Office of Controller of Examinations of the university in 25 centres across the country. The questions of the entrance test are based on Buddhist teachings, philosophy, history and literature with particular reference to the Pali texts and Original Buddhism.

The written examination carries 75 marks and has 2 sections:

Section A: Objective (45 marks)

Section B: Descriptive (30 marks).

The candidates, who qualify in the written test are called for interview (25 marks) for final selection. The admission forms are downloadable from the university's web site: <http://www.uohyd.ernet.in>

A foreign national or an international student may apply to Director, International Affairs, University of Hyderabad for the scrutiny of his/her applications on a prescribed format and may send a copy to Chairman, Admission Committee, Centre for Buddhist Studies. The forms for the international students are downloadable from <http://www.uohyd.ernet.in>.

Eligibility for admission to Ph.D. programme for 2011-12

First class M.A. in i) Buddhist Studies OR ii) M.A in Pali OR iii) Ancient Indian History with PG Diploma in Archaeology OR iv) M.A. in Philosophy with Foundation Course in Buddhism from University of Hyderabad OR v) UGC JRF/NET qualification for Lectureship in Humanities/Social Science OR vi) M.A. with a Buddhist related paper from a foreign university with evidence of proficiency in Pali/Sanskrit/Tibetan *and in English*. Weightage shall be accorded to the candidates with evidence of having passed the examinations such as Bali Sanam Luang conducted by Royal Government of Thailand or Dhammacariya examination conducted by Government of Myanmar.

Dr C.B. Varma, D.Litt, Associate Professor of Philosophy & Buddhist Studies, is the **Coordinator** of the Centre.

Centre for Modelling Simulation and Design

I. PREAMBLE:

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

The University of Hyderabad, having expertise in many of the above areas, fully appreciates the inter-dependence of Science, Engineering and Technology, and launched a uniquely conceived new programme of higher education and research. This initiative was launched through an imaginative programme of the UGC (recognizing the University for its potential for excellence) by establishing a designated Centre for such activity (Centre for Modelling Simulation and Design – CMSD). This programme has been receiving generous support from DST under its FIST program.

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

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

Short term courses have been so far conducted in the areas of Parallel Computing, Monte Carlo simulation, molecular modeling etc. It is now planned to start the PhD program in the area of Computational Science.

II. PROGRAMME OF STUDY:

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

The **Ph.D.** programme is offered on full time basis as per the university regulations. All the candidates interested in this programme will apply for admission to the Ph.D. programme in CMSD, designated in the application form separately. They should indicate clearly the linkage to the subject area in which research will be taken up using advanced computational methods at the Centre. Eligible candidates will have to appear for a written examination

(75% weight) followed by an interview for short-listed candidates conducted by the CMSD (25% weight).

Entrance examination

Admission to the **Ph.D.** programme will be based on a written entrance examination in one of the specified subjects, chosen by the candidate. This will be conducted by the respective School of study, and is the same as the one prescribed for admission of Ph.D. students to that respective School. (For example, a candidate interested in Computational Physics, will need to appear for an entrance examination conducted by the School of Physics). The results of the written test will be used for short-listing candidates for subsequent interview.

Interview: The Admission Committee of the CMSD will conduct the interviews to select suitable candidates for admission to the Doctorate Programme of the Centre.

Pre-Ph.D. course work

The candidates admitted to the Ph.D. programme in the Centre will have to satisfy the following academic requirements to have their registration confirmed, - a pre-requisite for continuation.

1. Student admitted to the Ph.D. programme in the Centre, is required to take certain courses (16 credits), prescribed by the respective Doctoral Committee, within a period of 1 year from the date of admission.
2. There will be a comprehensive examination at the end of the course work, comprising of written examinations in the subject areas suggested by the Doctoral Committee.
3. Successful completion of the comprehensive examination requires scoring at least 50% of marks in each of the written tests.
4. Comprehensive examination is normally conducted once in a year. Additional examination within an academic year may be conducted, as an exception, if required and if it is recommended duly by the concerned Doctoral Committee.
5. In case of an unsuccessful first attempt in the comprehensive examination, the student has a second chance to take this (supplementary) examination again,

after a gap of at least six months from the earlier one. There will be only one additional chance to clear this examination.

6. The registration of the student is confirmed on the recommendation of the Doctoral Committee after successful completion of the comprehensive examination.

Progress of the confirmed registrant will be reviewed by the Doctoral Committee as per the norms of the University, and a satisfactory progress every semester is needed for continuation of the registration.

III. COMPUTATIONAL RESOURCES at the CMSD:

Currently, CMSD is a 15.0 Teraflop Facility which is fully networked and consists of the following hardware:

- 6 SMP Systems with total of 192 CPUs [1 x IBM p690 (32 Power 4), 3 x IBM p690 (96 Power 4+), 1 x IBM p595 (64 Power 5)], 1 x IBM p595 (64 Power 5+) @ 2.3 GHz, 512 GBytes of main memory and 4 TBytes of storage.
- A CDAC PARAM SUN cluster consisting of 16 nodes (each with dual xeon processors) and 32 GB memory.
- High end workstations such as 6 x SGI Octane 2, 2 x SUN Blade 2000, 6 x IBM Intellistations etc.
- SGI Altix 4700 a 128 core (Dual Core, Itanium2 9150M 1.67 GHz) shared memory architecture based Unix server comprising of 512 GB RAM
- SGI Altix ICE 8200 EX Cluster [Enhanced] with 1024 core high performance, high throughput and high availability cluster comprising of 1 GB/core memory, built using Infiniband Interconnect.
- SGI XE1300, 2 x Quad core @ 3.0GHz, 4 GB RAM, 146 GB HDDA 128 core Windows CCS/HPC Cluster.
- SGI IS4600 x 2, 100 TBytes of shared Storage system (FC, SATA) for delivering very demanding data intensive environment, leading to High Performance & Productive Computing Facility, through SGI Altix 450

x 2, 8 core, 48 GB RAM, Montvale 1.67 MHz storage servers.

- SGI Spectra T120 Library, 2 x LTO Gen-4 Drives scalable to 6, Spectralogic 100 slots and 60 units of Media, a good tape backup system to archive data with time stamping.
- Management Servers: SGI Altix 250 SERVER x9 (2U), 2 x Quad core, E5472, 3.00 GHz, 1600 FSB, 12MB Cache, 8GB RAM, 6 x 145GB SAS HDD/15K
- Parallel file system to allow bulk I/O operations.

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

IV. VISUALIZATION FACILITY:

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

V. FACULTY:

Director

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. (**Director of the Centre**)

Resource Coordinator and Co-Project Investigator-HPCF

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

Academic Coordinator

K.P.N. Murthy, Ph.D (Hyderabad) – Equilibrium and Non-Equilibrium Statistical Physics, Boltzmann transport equation; Nonlinear Dynamics and Chaos; Monte Carlo Simulation

Associate Faculty:

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

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

Sharmishta Banerjee, Ph.D (SKU) – Signal transduction, Molecular and Cellular Oncology.

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

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

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

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

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

Susanta Mahapatra, Ph.D. (I.I.T. Kanpur) – Theoretical Chemical Dynamics, Non-adiabatic Chemistry (Professor-ARCHEM)

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

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

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

Chakravarthy Bhagavati, Ph.D. (RPI, USA) – Image Processing, Computer Vision, Pattern Recognition.

A.P. Pathak, Ph.D. (IIT Kanpur), F.N.A.Sc., F.Inst.P. (London), C.Phys. – Atomic Collisions in Solids, Radiation Damage, Surface Physics, Superlattices & Heterostructures

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

S.P. Tiwari, Ph.D. (Delhi) – Quantum Optics, Nonlinear Optics

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

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

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

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

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

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

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

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

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

S. Mallikharjuna Rao, Ph.D. (Osmania), FICWA – Financial Management Strategic, General Management, Infrastructure Management and Health Care Financing.

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

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

Chetan Srivastava, PGCCA, MCSD, MBA (Mktg), MBA (HRM), MBA (Sys.) (Management – Osmania University)

– Strategic Marketing, International Marketing, Advertising, Sales Management, HRD AND Systems.

Centre for Distance and Virtual Learning

The Centre for Distance and Virtual Learning was established in the year 1994 with a couple of P.G. Diploma programmes with the objective of expanding the access to higher education for all sections of the society. Presently, the Centre is functioning in the Golden Threshold Campus, Nampally Station Road, Abids, Hyderabad. This year (2011) we have notified the following 17 programmes including 2 new programmes and the admissions are in progress. The last date for submission of the filled-in applications is 31/01/2011. **Prof. S. Jeelani is the Director.**

1. Post Graduate Diploma in Project Management
2. Post Graduate Diploma in Library Automation and Networking
3. Post Graduate Diploma in Chemical Analysis and Quality Management
4. Post Graduate Diploma in Cyber Laws and Intellectual Property Rights
5. Post Graduate Diploma in Business Management
6. Post Graduate Diploma in Communicative English
7. Post Graduate Diploma in Energy Management
8. Post Graduate Diploma in Criminal Justice and Forensic Science
9. Post Graduate Diploma in Governance
10. Post Graduate Diploma in Human Rights
11. Post Graduate Diploma in Translation Studies in Hindi
12. Post Graduate Diploma in Tele Communications
13. Post Graduate Diploma in Mass Communication and Translation Techniques in Telugu
14. Post Graduate Diploma in Medicinal Botany
15. Post Graduate Diploma in Consumer Education
16. Post Graduate Diploma in Technology Management in Agriculture
17. Post Graduate Diploma in Sustainable Rural Development

The UGC-AICTE DEC joint committee visited the University on 26th September, 2010 and gave its approval in principle to all the courses being offered by the Centre for Distance and Virtual Learning. The DEC has also sanctioned Rs. 20.00 lakhs to the centre. As per the new

MHRD and DEC, New Delhi guidelines, the centre is going for ICT based learning from the year 2011 onwards. Further, the Centre for Distance and Virtual Learning has entered into MoU with the National Academy of Agricultural Research Management and introduced a new programme from this year, viz., Post Graduate Diploma in Technology Management in Agriculture (PGDTM).

Some of the courses will be introduced from next year, after the MoUs with the following organizations are processed:

- (i) PharmaCambridge, United Kingdom
- (ii) Andhra Pradesh Academy of Rural Development
- (iii) Academy of Global Education Studies, Mumbai
- (iv) GVK Biotech, Hyderabad

Academic Staff College

Academic Staff College, University of Hyderabad is one of the 66 colleges established by the University Grants Commission in 1987 – 1988. It is an important academic unit of the University. Till now Academic Staff College has conducted a total number of 243 courses, which includes 68 Orientation Courses, 175 Refresher Courses and 8608 teachers from different states of the country have attended the course since its inception. During the year 2009-2010, the ASC organized five Orientation Courses and nine Refresher Courses and two Professional Development Programmes (specifically meant for Directors/Asst. Directors, Principals and Administrative Officers).

During the year 2010-2011 the ASC will organize Orientation Courses and Refresher Courses in subjects proposed by Academic Advisory Committee and approved by University Grants Commission and also Principal Workshop and two Workshops on Research Writing and Publication. Besides this ASC organized a two day National Seminar in August 2010 on *Reforms in Governance and Administration* attended by around 400 participants.

The Mandate:

Professional training is a powerful measure in upholding teacher competence and sustaining teacher motivation. The

Orientation Courses are for duration of four weeks. These are especially concerned with the objective of sensitizing participants on current issues of higher education and immediate social relevance. Due emphasis is laid on strengthening skills in teaching and communication and bringing innovations in teaching. Attempts are made in motivating and developing competence in ICT by way of imparting skills in content development in Wiki.

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

Faculty:

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

Director - Prof. Y. Narasimhulu

Specialisation -Non-linear Differential Equations, Differential systems

Research Focus - Mathematics, Higher Education, Human Resource Management

Lecturer - Dr. S. Sudhakar Babu

Specialisation - Public Policy, Equality of Opportunities and Dalit Studies, Public Policy for Good Governance, Policy Studies, Civil Society, Training and Higher Education.

Research Focus - Training, Higher Education and Literacy.

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

Infrastructure:

The college has access to all the infrastructure facilities of the University like the Computer Lab, Central Library and Sophisticated laboratories. Besides these, the College itself has a good library with 3231 books, journals and magazines and two computer labs with 50 systems which provides hands on experience on various applications of Information Technology.

ACADEMIC & STUDENT SERVICES

Indira Gandhi Memorial Library

The Library is a **central facility to support the teaching & research activities of the University**. Over the years, the library has been successfully catering to the information needs of all the academic community viz., teachers, research scholars and students of Sciences, Engineering, 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 540 print journals, popular magazines & newspapers in English and Indian languages. The library has access to over 18,000 e-journals from several publishers with the support of UGC-INFONET. For the benefit of students and faculty, around 2,889 e-books are subscribed by the library and are accessible under Intranet. Important text books and a small collection books especially for weaker section students are kept in a separate room (book bank).

The National Board of Higher Mathematics (NBHM) has recognized this library as a “Regional Library” for Mathematics and provides financial support for the acquisition of Mathematics 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. The working hours are from 8.30 a.m. to 11.30 p.m. on all working days and from 9.00 a.m. to 5.30 p.m. on Sundays and other Holidays. The library has a separate A/C reading room which is kept open round-the-clock for the benefit of students. 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 the best use of the library resources and services.

Central Instruments Laboratory (CIL)

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

The areas of specialization of the CIL include Mass Spectrometry, Radiation Spectroscopy (X-Ray, UV-VIS-IR), Microscopy, Advanced Electronics, Design and Development of Microprocessor and Microcontroller – based Systems, Embedded Systems, Advanced Instrumentation systems design and maintenance.

Computer Centre

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

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

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

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

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

Health Care

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

At the time of admission every student shall submit a physical fitness certificate and also **an undertaking to the Health Centre, signed by the parent/guardian to the effect that “any hospitalization/medical treatment expenses shall be borne by the parents/guardians of the student concerned and the university is not responsible for treating the major diseases/ailment occurred while pursuing studies in the University.”**

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

Hostel Accommodation

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

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

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

Reservation of seats: Of the total number of available seats in a particular academic year in the hostels, 22.5% are reserved for candidates belonging to SC/ST and 3% for Physically Challenged students.

The hostel accommodation may be provided subject to the availability of seats in the hostels for a maximum period i.e. P.G. courses – 02 years; M.C.A. and MPA Theatre Arts – 03 years; M.Phil – 1 ½ year; Ph.D. – upto 05 years;

Integrated Masters – 05 years. **In no case, the stay will be extended beyond the above stipulated period.**

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

Mess facility attached to different hostels is compulsory and is completely managed by the inmates. Even if a boarder does not avail the mess facility, a minimum monthly 10 days’ mess bill will be charged. The average vegetarian monthly mess bill (Break fast, Lunch and Dinner) for women worked out to about Rs. 1000/- and for men Rs. 1200/- during earlier years.

The rules and regulations in the Hostel Hand Book, periodically updated at the University’s website, is binding on all boarders.

Students Welfare

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

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

Discipline among students

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

Ban on ragging on the campus: Ragging, use of drugs, drug trafficking and eve teasing, which are criminal offences, are strictly forbidden in the University and persons found indulging in such activities will be subjected to strict disciplinary and other action in keeping with the law of the land. Indulging in any criminal activity within or outside the University and any physical violence against fellow students and fellow residents will not be tolerated and will attract stern disciplinary action including rustication. As per the orders of the “Hon’ble Supreme Court of India” if any incident of ragging comes to the notice of the authority of the University, the concerned student should be given liberty to explain and if his explanation is not found satisfactory, the authority would expel him/her from the University.

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

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

Games and sports

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

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

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

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

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

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

Financial Support

The University offers financial assistance to all students admitted to any of its regular programme of study. Particulars in brief are

Boarding / Boarding-cum-Lodging Allowance (BBL Allowance)

- a) All 5-year Integrated M.A. and M.Sc. 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., and M.F.A., students will be paid BBL allowance @ Rs. 1000/- p.m. for two years and for MCA & M.P.A for three years.

3. University Achievers’ awards

For all PG courses (except M.Tech and M.Phil) an achievers award @ Rs.5000/- (lump sum) 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. (GATE scorers) will be paid scholarship @ Rs. 8,000/- and Non-GATE students will be paid @ Rs.6,000/- p.m. The tenure of the scholarship will be for 2 years.
5. M.Phil. students admitted from 2011-12 onwards will be paid BBL Allowance @ Rs. 3,000/- p.m. for one year.
6. Ph.D Scholars will be paid scholarship @ Rs.5000/- p.m. for a period of 3 years, extendable by one more year in exceptional cases and with specific & tangible justification from the Supervisor/Doctoral committee.

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. 1000/ p.m. in respect of PG/ M.Phil/Ph.D. students and Rs.1500/- for JRF holders for the employment of a Reader, an annual grant of Rs.500/ for guide charges, extra time of 20/30 minutes for writing examination paper of 2/3 hours respectively and permission to use a personal typewriter during examinations. In addition to this, the blind students are eligible for scribe charges @ Rs 150/- for Internal Exams/Term papers and Rs. 300/- for end-semester examinations. Special stationary charges @ Rs. 500 per annum.

Fellowships for research studies

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

Rajiv Gandhi National Fellowships sponsored by the Ministry of Social Justice for SC/ST candidates to pursue M.Phil and Ph.D. Degrees: The SC/ST Scholars enrolled for Ph.D. and M.Phil programmes in the University have to apply for this Fellowship as and when the University Grants Commission issues the Notification. The value of JRF is Rs.12,000/- p.m. for the first two years and Rs.14,000/- p.m. for the subsequent years.

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

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

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

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

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

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

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

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

Financial assistance from other sources: The students of the University are also eligible to apply for the award of the

following Scholarships given by the Govt. of India and the Govt. of Andhra Pradesh subject to their fulfilling the conditions prescribed in each case.

- a) GOI National Merit Scholarship
- b) GOI Post Matric Scholarships for SC/ST students
- c) GOI Scholarships for non Hindi speaking students for Post Matric studies in Hindi
- d) GOI Scholarships for physically handicapped
- e) GOI Scholarships for Ex-Servicemen/Freedom Fighters' children, Minority students
- f) A.P.Govt. EBC Scholarships
- g) A.P.Govt. State Merit Scholarships
- h) A.P.Govt. Listed Backward Classes Scholarships
- i) A.P.Govt. Scholarships for the children of deceased Govt. servants who died while in service.
- j) A.P.Govt. Scholarships and book grant to children of political sufferers.
- k) A.P. Govt. Minority scholarships

NOTE: Decision regarding the University scholarships, is generally taken up by October each year by way of notification inviting applications. Payment of these scholarships shall, 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. shall be made only after receipt of the sanction and scholarship amounts by the University.

Placement Guidance and Advisory Bureau (PGAB)

Placement Guidance and Advisory Bureau (PGAB) at the University facilitates placements for students of the University. Even though predominantly the placements are more for the students of professional courses, a few Companies/Organizations, etc. also visit the campus and conduct placement-related activity for students of the non-professional courses/programmes. The School/Department faculty placement coordinators and student placement coordinators play a vital role in the placements of their respective Schools/Departments/Centres.

Companies/Organizations/Institutes/Banks of repute such as the Reserve Bank of India, HSBC Banking Corporation, Tata Consultancy Services, Computer Associates, State Bank of Hyderabad, JP Morgan Chase, HelloSoft, TIME, ADP India Ltd., Cognizant, DuPont, Transgraph, DST Worldwide Services, IBM, DeShaw, Commvault, Honeywell, CMC, Tata Motors, Dolcera, Orient Blackswan, Abhyasa Residential Public School, Sri Chaitanya Techno Schools/Colleges, Union Bank, FIITJEE, Deloitte, SBH, Andhra Bank, Oracle, Cocubes, Amazon, Pearson Education, Intergraph, Dr. Reddy's Labs., AstraZeneca, Advinus Therapeutics, Oneconvergence, to name a few, visited the campus last year and recruited students from various disciplines with an annual package ranging from Rs. 3.00 lakhs - 10.50 lakhs each. Many off-campus placements also took place.

In addition to the placements, PGAB also gives a lot of importance to various co-curricular activities, including organizing soft skill programmes designed for total personality development of students apart from excellence in academics. The alumni of the University occupy premier positions within the country and abroad.

Placement Coordinator: (email: placement@uohyd.ernet.in; telephone number: 040-2313 4040).

TEACHING AND EVALUATION REGULATIONS

Special features

The special features of the University's academic set up include a favourable teacher student ratio (1:9/10); a flexible academic programme that encourages interdisciplinary courses and research. The assessment, including projects and examinations of the Postgraduate/PG Diploma courses is continuous and internal.

Semester system

The courses are organised on the semester pattern. The academic year consists of two semesters of 16 to 18 weeks each. July – December is the Monsoon semester and January – June is the winter semester.

Continuous internal assessment

The examination system of the University is designed to test systematically the student's progress in class, laboratory and field work through continuous evaluation in place of the usual "make or mar" performance in a single examination. Students are given periodical tests, short quizzes, home assignments, seminars, tutorials, term papers in addition to the examination at the end of each semester. The final result in each course is calculated on the basis of continuous assessment and performance in the end semester examination.

Attendance and progress of work

Students should attend at least 75% of the classes actually held in each course (at least 60% if the same course is repeated for writing the end-semester examinations) and participate, to the satisfaction of the School/Department/Centre, in seminars, sessionals and practicals as may be prescribed. The progress of work of the research scholars and their attendance is regularly monitored by their supervisors. **Absence from classes continuously for 10 days shall make the student liable to**

have his/her name removed from the rolls of the University. Absence on medical reasons should be supported by a certificate which has to be submitted soon after recovery to the respective School/Department/Centre.

Summer Semester

In order to help the IMA/I.M.Sc. students having more backlogs than allowed, classes will be held during May/July subject to the availability of the teachers.

Evaluation regulations

1. The performance of each student enrolled in a course will be assessed at the end of each semester. Evaluation of all P.G., Advanced P.G./P.G. Diplomas, M.Phil., M.Tech and Integrated PG courses is done under the Grading System. There will be 7 letter grades; A+, A, B+, B, C, D and F on a 10 point scale which carries 10,9,8,7,6,5,0 grade points respectively.
2. The final result in each course will be determined on the basis of continuous assessment and performance in the end semester examination which will be in the ratio of 40:60 in case of theory courses and 60:40 in laboratory courses (practicals).
3. The mode of continuous assessment will be decided by the School Board concerned. The students will be given a minimum of three units of assessment per semester in each course from which the best two performances will be considered for the purpose of calculating the result of continuous assessment. The record of the continuous assessment will be maintained by the School/Department/Centre.
4. At the end of the semester examination, the answer scripts shall be evaluated and the grades scored by each student shall be communicated to the Dean of the School/Head of the Department/Centre for onward

transmission to the Office of the Controller of Examinations. Wherever required, the Dean / the Head of the Department/Centre along with the teacher concerned may moderate the evaluation.

5. (a) Students should obtain a minimum of 'D' grade in each course in order to pass in the Postgraduate, Adv. PG/ Postgraduate diploma, M.Phil, M.Tech and Integrated PG courses. Students who obtain less than 'D' Grade in any course, may be permitted to take the supplementary examination in the course/s concerned within a week after the commencement of the teaching of the next semester or in accordance with the schedule notified. Appearance at such examinations shall be allowed only once. Those students who get less than 'D' grade in the supplementary examination also shall have to repeat the course concerned or take an equivalent available course with the approval of the Head of the Department/Centre and the Dean of the School concerned. Such approval should be obtained at the beginning of the semester concerned.

- (b) In order to be eligible for award of medals/prizes and ranks etc., the students should complete the course within the prescribed duration. The grades obtained by the student in the supplementary/ repeat/improvement examinations shall not be taken into account for the award of medals/prizes/ranks etc. Further, for the purpose of award of M.Phil. and M.Tech. medals, prizes and ranks, the student should complete the course, examination and submission of dissertation etc., within a maximum period of three and five semesters respectively from the date of the admission to the course.

6. (a) No student of PG/Adv. PG/PG Diploma/M.Phil, and M.Tech, shall be permitted to move to the next semester, if he/she has a backlog of more than 50% of the courses of a semester concerned subject to a maximum of two backlogs where the number of the courses in a semester are four and a maximum of three backlogs where the number of courses in a semester are more than four at any given point of time including the backlogs of the previous semester, if any.

- (b) No student of 5-year Integrated M.A./M.Sc. courses shall be allowed to move to the next semester, if he/she has a backlog of more than 50% of the courses of a semester concerned subject to a maximum of 5 backlogs at any given point of time including the backlogs of previous semester/s, if any.

7. The qualifying marks for the dissertation/project report / monograph/ research paper in the M.Phil., and M.Tech courses shall be 50%. Students who obtain less than 50% or 'D' grade in the dissertation/ monograph/ research paper will be required to rewrite it within such extra time as may be allowed by the University based on the recommendation of the Supervisor(s) and the Department/Centre/School concerned.

8. Students who are permitted to appear in supplementary examinations in course/s in accordance with clauses 5(a) above will be required to apply to write the examination concerned in the prescribed form and pay the prescribed examination fee by the date prescribed for the purpose by the University.

9. (a) A student in order to be eligible for the award of M.A., M.Sc., MCA, MBA, MPA, MFA Adv. PG/PG Diploma and Integrated PG Courses must obtain a minimum of 'D' grade in each course. The results of successful candidates will be classified as indicated below on the basis of the CGPA:

CGPA of 8.0 and above and upto 10.0	I Division with Distinction
CGPA of 6.5 and above and < 8.0	I Division
CGPA of 5.5 and above and < 6.5	II Division
CGPA of 6.0	II Division with 55%
CGPA of 5.0 and above and < 5.5	III Division

- (b) To satisfactorily complete the programme and qualify for the degree, a student must obtain a minimum CGPA of 5. There should not be any 'F' grades on records of any student for making himself/herself eligible for award of the degree.

The division obtained by a student will be entered in his/her provisional cum consolidated grade sheet and in the degree/diploma certificate.

10. A student in order to be eligible for the award of the M.Phil and M.Tech degree must obtain a minimum of 'D' grade in each of the courses She/he takes as well as in the dissertation / project report/ monograph. The results of the successful candidates will be classified as below:

CGPA of 8.0 and above and upto 10.0 I Division
with Distinction

CGPA of 6.5 and above and < 8.0 I Division

CGPA of 5.5 and above and < 6.50 II Division

There is no III Division in these programmes

To satisfactorily complete the programme and qualify for the M.Phil. / M.Tech. degree, a student must obtain a minimum CGPA of 5.5. There should not be any 'F' grades on the records of any student for making himself/herself eligible for award of the degree.

The division obtained by a student will be entered in his/her provisional cum consolidated marks sheet and the degree certificate.

11. No student shall be permitted to take a supplementary examination for the second time of the same course except in the case of one repeating the entire course.

12. (a) No student of Post graduate, Adv. PG/PG Diploma, 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. Further a student of MCA, M.Phil. and M.Tech. or any other programme having dissertation will be permitted to work on the dissertation though there are backlogs in the course work subject to the condition that the backlogs do not come in the way of their promotion to the subsequent semesters. However, he/she is allowed to submit the dissertation only on completion of the course work.

13. Students who are not found eligible to take semester examinations and also those who are not promoted to the next semester of the course may be considered for **readmission** to the concerned semester of the immediately following academic year. Such students should seek **readmission** before the commencement of the classes for the concerned semester or within a week of the commencement of the concerned semester if they are appearing in the supplementary examinations. Such students are given an option either to undergo instruction for all the courses of the semester concerned or to undergo instruction in only such courses in which they have failed on the condition that the option once exercised will be binding on the student concerned.

14. The answer scripts of the semester examinations shall not be returned to the candidates but may be shown by the instructor at the specific request of the student concerned. The result of the continuous assessment of the students will, however, be communicated to students immediately after the assessment.

15. **No request for re-valuation shall be entertained.** However, every School shall constitute a **Grievance Committee** consisting of 3 or 4 teachers to examine the complaints received from the students of the School regarding their assessment. Such requests from the students should reach the Dean of the School through the Head of the Department/Centre within 15 days of the announcement of the results.

Note: If a student is not satisfied with the evaluation by the School level Grievance Committees, the Dean of the School on a request from the student may refer the matter to the Controller of Examinations for getting the paper evaluated by an external examiner, whose evaluation will be final. The fees for external evaluation in all such cases shall be Rs. 50/- per paper which shall be paid by the student concerned.

16. (a) Students absenting themselves after payment of fees from a regular semester examination are permitted to appear in the supplementary examination. The application for the supplementary examination in the prescribed form along with the prescribed fee should reach the office of the Controller of Examinations through the Department/Centre/School concerned by the date prescribed.

(b) Students may opt to audit a course within the Department or outside, provided he/she satisfies the prerequisites. 75% of attendance is required for an audit course for including the same in the additional grade sheet.

(c) Option once exercised for audit/extra courses shall be final.

Improvement examination

- i) Students securing 'D' grade in the course of a semester may be allowed to improve their marks in one course in a semester. Appearance at such an examination in the course will be allowed only once. No further chance will be given under any circumstances.
- ii) The improvement examinations will be conducted along with the supplementary examinations within a week of the commencement of the teaching of the next semester or as per the schedule prescribed.
- iii) For the purpose of determining the Division, the better of the two performances in the examinations will be taken into consideration.
- iv) The facility for improvement shall be open to all those who want to improve their grade irrespective of the CGPA obtained by them in the examination concerned.

However, one should clear all courses of a particular semester in which he/she intends to take an improvement examination.

- v) The grade sheet of a student will indicate full information of the examinations taken by him/her. Both the Grades obtained in the 1st and 2nd attempts will be shown in the grade sheets.
- vi) The Application for improvement examination in the prescribed form along with the prescribed Examination Fee should reach the office of the Controller of Examinations within a week of the commencement of the teaching of the next semester through the School/Department/Centre by the prescribed date.
- vii) One can improve a maximum of four courses of their respective programmes as detailed below:
one course at the end of the first semester, two courses at the end of the second semester, three courses (to be taken from 1st & 3rd semesters) at the end of the third semester and four courses at the end of the fourth semester.

Students who have completed the course without availing the improvement facility in accordance with the schedule prescribed by the University are allowed to avail the unavailed chances within a maximum period of six months after completion of the course. Such exams are to be taken when the regular or supplementary/improvement exams are held.

Special Supplementary Examinations: The PG/Integrated students who after completion of the prescribed duration of the course are left with backlogs are eligible to appear for special supplementary exams subject to a maximum of two courses where number of courses in a semester are four and a maximum of three courses where the number of courses in a semester are more than four. Appearance in such exams shall be allowed only once.

Evaluation of M.Phil. dissertation

- i) Students should give an open seminar on the M.Phil dissertation. Schools/Departments/Centres should hold it before/after submission of the dissertation.

- ii) A Board comprising 3-4 members shall assess the performance of the M.Phil. candidates at the seminar for 25% of the marks prescribed for the dissertation. The remaining 75% marks for the dissertation shall be awarded on the basis of examiners' reports in accordance with the existing procedure. There is no minimum pass mark for the seminar.

Evaluation of M.Tech. CS/AI/IT dissertation & MCA Project work

1. The dissertation of M. Tech. and M.C.A. project will be evaluated in two phases viz., mid-term and final. Mid-term is for 40% and the final is for 60%.
2. The mid term and final evaluation will be done by a Board of examiners and the students have to present the work done by them.
- 3 (i) The provisional certificate-cum-consolidated grade transcript shall contain the CGPA and the division also. This document shall also contain classification of the results under letter grade system .
(ii) An additional grade sheet will be given to the students for the courses audited by them without attributing the credits, and also for the courses taken by them having credits which are not counted for the award of the degree and the credits scored by them for the extra curricular activities like NSS, literacy programme etc. The audited courses will be included in the additional grade sheet, based on the certification given by the teacher concerned and recommended by the Head of the Department and Dean of the School concerned.
iii) In the degree certificate, the division will also be mentioned.
iv) In addition to the above provisions, the existing evaluation regulations in the University shall be applicable in the other matters, wherever required.

Bridge courses for SC/ST Ph.D. scholars

Students from the SC/ST category who are admitted to Ph.d. programmes and identified with some academic deficiencies have to study Bridge courses for a maximum period of 2 semesters to enable them to pass the course work and this period will not be counted against the

maximum period (5+1 year) allowed for submission of the thesis.

Course work for Ph.D. scholars

Every student admitted to a Ph.D. programme shall satisfactorily complete the course work prescribed by the School/Department/Centre. The course work shall be for not less than 12 credits which may be distributed among different components as decided by the respective School/Department/Centre. The Ph.D. students should pass the course work by securing 50% of marks in each subject within a maximum period of 2 semesters. However, in exceptional cases, another two semesters may be granted to complete the course work which may be decided based on the merit of each case. No student shall be permitted to work on the research project without completion of the course work. The provisional admission of the candidates who fail to complete the course work in the above stipulated period stands cancelled automatically. This shall also apply for the Ph.D. students registered for part time, external category and at the Associate Institutions. The result shall be declared as pass or fail.

Note : Those students who have done course work at their M.Phil./M.Tech. level may be considered for exemption from the said course work by the School/Department/ Centre concerned.

Medals for excellence in studies

With a view to encouraging good performance in studies, the University has instituted several donor medals. These include the following:

Donor Medals

1. Sarojini Naidu Memorial Trust - M.A. English
2. Roopchand Chajed (Jain) Medal - M.A.Hindi
- 3.Dr. Prakash Moonis Memorial Medal - M.A.Urdu
- 4.M/s. Jindal Jubilee Gold Medal - M.A. Economics
- 5.Andhra Bank Medal - M.A. History
- 6.Canara Bank Medal - M.A. Communication
- 7.Nataraja Ramakrishna Sharada Devi Medal -
M.P.A.Dance
8. Sri S.L. Parasher Medal -M.F.A. Painting

9. M./s Jindal Jubilee Gold Medal - M.Sc Maths
10. M/s Narosa Publishing House Medal
- M.Sc Maths (Applied)
11. A.P. Mahesh Bank Medal - M.C.A.
12. Bhagwat Saran Agarwal Memorial Medal
- M.Sc Physics
13. Vasavi Academy of Education Medal- M.Sc Electronics
14. Vasavi Academy of Education Medal - M.B.A.
15. Prof. V.V. Sarma Memorial Medal- M.Sc Chemistry
16. Prof. A.N. Radhakrishnan Memorial Medal
- M.Sc Biochemistry
17. K.L.N. Reddy Medal - M.Sc Plant Sciences
18. Kiran Kumar Medal - M.Sc Animal Biotech.
19. Burhani Trust A.P. Medal - M.Sc. Biotechnology
20. SBH Medal - M.Tech CS
21. Alekhya Technology Medal - M.Tech AI
22. Mannapalli Subbaramaiah Medal
--Overall for M.Tech CS/AI/IT
23. Smt. N.V. Ranganayakamma Medal- M.Phil Physics
24. Prof. G.C. Jain Medal - M.Phil Urdu
25. Roopchand Chajed (Jain) Medal - M.Phil Hindi
26. President of India Medal
- for overall performance (Bi-annually)
27. Pingali Mohan Reddy Medal
- overall performance in PG in Life Sciences
28. Alumni Medal (for a topper in Social Anthropology)
- M.A Anthropology
29. Akhtar Hassan Memorial Medal - M.Phil Urdu
30. IDRBT Medal - M.Tech IT
31. Dr. (Mrs) Sheela Raj Memorial Medal - The best Ph.D. or M.Phil thesis to be adjudged every year in History
32. Tadinada Sri Mahalashmi Medal
- M.Tech. Mineral Exploration
33. Dr. Salam Khan Bio Asia Medal- M.Sc Biotechnology
34. Dr. Naushaba Hasnain and Prof. Syed Mohammad Hasnaian Medal - For performance in PG courses of School of Humanities with a preference to M.A. Urdu, if the overall marks are 1% less than the topper in other subjects
35. Kottapalli Narasayya Medal - for a topper who secures highest marks in core subjects of M.Sc. Plant Biology and Biotechnology

36. Prof. P. Ramanarasimham Medal -for a topper in M.A. Telugu who secures highest marks in the following Courses put together :

- i) Introduction to General Linguistics
- ii) Evolution of Telugu Language
- iii) Structure of Modern Telugu
- iv) Comparative Dravidian

37. Prof. Radhanath Medal - I.M.Sc. Health Psychology

Donor Medals for women toppers

38. Smt. Ravuri Kantamma Bhardwaja Medal
- M.A. Telugu
39. State Bank of India Medal - M.A. Economics
40. A.P. History Congress Medal - M.A. History
41. Prof. G. Ram Reddy Memorial Medal - M.A. Political Science (Human Rights)
42. Prof. M. Shakuntala Memorial Medal - M.Sc Physics

The toppers in the remaining Master's degree courses are awarded the University Medals.

University Medals

1. M.A. Philosophy
2. M.A. Functional Hindi
3. M.A. Telugu
4. M.A. Applied Linguistics
5. M.A. Political Science
6. M.A. Sociology
7. M.A. Anthropology
8. M.P.A. Theatre Arts
9. M.Sc Statistics
10. M.Sc Molecular Microbiology
11. M.B. A. Health Care and Hospital Management

SC/ST Medals

The University has instituted medals for securing the first rank with first class among the SC/ST students in various examinations at Master's degree level in the year 1991 – the birth centenary of Bharat Ratna Dr. B.R. Ambedkar.

The President of India Medal

The President of India Medal will be awarded bi-annually for a PG student for overall performance to be adjudged as the best for general proficiency including character, conduct, excellence in academic, and other extra and co-curricular activities viz., 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 in the students union, mess secretary etc. For this, a weightage of 70% shall be given for academic performance after normalization and 30% for other activities. The students should provide the information to the HoDs/Deans for this purpose with documentary evidence from time to time or before they leave the University on completion of the course.

University Medal for Physically Challenged Students

The University has instituted a medal for the meritorious student from amongst the physically challenged category from P.G. Courses. This will be awarded annually at the Convocation. The selection procedure for this award will be similar to that of the President of India Medal.

Note: For the award of the above medals, prizes, and rank, etc., the topper in the subject concerned should secure first division in the degree and pass all the examinations within the prescribed duration in the first attempt. The marks obtained in supplementary/ improvement examination shall not be taken into account for the purpose. In respect of tie, actual marks obtained shall be taken into account for identifying the topper.