ADMISSION TO EXTERNAL Ph.D./ M.Phil./ M.S.
RESEARCH PROGRAMMES - 2012

Admissions will be made to External Ph.D./M.Phil./M.S. Research Programmes offered by the J.N.T. University Hyderabad in the following faculties.

1. Ph.D :

CIVIL ENGINEERING:

MECHANICAL ENGINEERING:
I.C. Engines, Heat transfer, Thermodynamics Analysis of cycles, Fuels, Turbo machinery, CAD/CAM, Geometric modeling, Manufacturing, Optimization, Metal Cutting, Machine design and Industrial Engineering, Smart composites and allied fields.

ENERGY SYSTEMS:
Conventional, Non-conventional energy systems and allied fields.

ELECTRONICS AND COMMUNICATION ENGINEERING:
Digital signal processing, VLSI, Computers Networks, digital circuits, Neural Networks, Micro Electronics, Image processing, Low Power design, Fault tolerance, Communications, Microwave Antennas, EMI/EMC, Computer Vision, Pattern Recognition and allied fields.

ELECTRICAL AND ELECTRONICS ENGINEERING

COMPUTER SCIENCE ENGINEERING

METALLURGY

BIO-TECHNOLOGY

SPATIAL INFORMATION TECHNOLOGY

WATER RESOURCES
ENVIRONMENTAL SCIENCES.
Bacterial Diversity & Bio prospecting, waste characterization and treatment, hydrogen production and storage, aromatic compound biodegradation & bioremediation, microbes for environmental management, environmental geomatics, water quality assessment, modeling and mapping.

PHARMACEUTICAL SCIENCES
Pharmacology, Pharmaceutics, Pharmacognosy and Pharmaceutical Chemistry.

NANO SCIENCE & TECHNOLOGY
Nano Science and Technology

PHYSICS

CHEMISTRY

MATHEMATICS
Number Theory, Operations Research, Non linear dynamical systems, Mathematical modeling, data and knowledge extraction and allied fields.

MANAGEMENT STUDIES
Management Studies, Accounting, Human Resource management and allied fields.

EARTH & ATMOSPHERIC SCIENCES


CHEMICAL ENGINEERING
Petro Chemicals, Fluidization Engineering

PHYSICAL EDUCATION:

ENGLISH
(English Language Teaching), Indian Writing in English, American Literature, British Literature, Commonwealth Literature and Applied Linguistics.

2. M.Phil. : Mathematics, Physics, Chemistry and Management Science.

1. METHODOLOGY OF RESEARCH:
As per the UGC Revised Guidelines, a course work of one semester is compulsory. The course work includes
- Two subjects at PG level with attendance and examinations.
- One subject “Research Methodology” with compulsory attendance and internal auditing.

Apart from the above course work, the Pre-Ph.D. examinations are also compulsory. The details of the evaluation procedure of Ph.D. research work will be available in JNTUH website.
I. Educational Qualifications: 

(i). Candidates must have a Post Graduate Degree in concerned discipline with a minimum of 55 percent marks in aggregate. For SC / ST candidates the aggregate shall be 50%.

For Ph.D. programme in Management Science, candidates possessing MBA are eligible. The candidates possessing Post Graduate qualification in any other subject with 5 years of experience in managerial capacity are also eligible.

MCA or M.Sc. qualified candidates are not eligible for Ph.D. programmes in Computer Science and other Engineering Streams.

(ii). In Multi disciplinary areas:

(a) Water Resources : Any Post Graduate degree in the field of Water Resources / Hydrology / Watershed Management / Geology / Geophysics / Geo-Engineering / Meteorology / Agricultural Engineering / Agricultural Meteorology / Solid Sciences (Water resources aspects) and Agronomy.

(b). Spatial Information Technology : Post Graduate Degree in Spatial Information Technology/Mathematics / Physics / Chemistry / Geology / Geography / Engineering / Agriculture / Atmospheric Sciences / Space Sciences.

(c). Biotechnology : Post Graduate Degree in Biotechnology / Chemical Engineering / Food Technology / Bio Chemical Engineering / Bio Chemistry / Microbiology / Life Sciences (Zoology, Botany, Genetics, Agricultural Sciences) / Pharmacy / Environmental Science and Technology.


(e). Environment : Post graduate degree in Physical Sciences / Natural Sciences / Life Sciences / Environmental Sciences / Biotechnology / Environmental Engg. / Agricultural / Computer Sciences.

(f). Nano Technology: M.E. / M.Tech. in Chemical /Mechanical/Aeronautical/ Electronics / Electrical / Metallurgical / Computer Engg./ Bio-Technology/ Material Science or Equivalent degree

M.Sc in Chemistry / Physics / Earth Sciences/Environmental Science & Technology or equivalent degree.

(iii) For M.S. : Candidates must have a B.E. / B.Tech. / B. Pharmacy degree or its equivalent with a minimum of 55 percent marks in the aggregate in the concerned branch and for SC/ ST candidates the aggregate shall be 50% only. M.S. is essentially a research programme for candidates in service. It is not a regular session based M.Tech. course.

EMPLOYMENT:

Candidates who are working in a well equipped Educational / Scientific / R&D / Industrial / Governmental Organisations and in Colleges affiliated to the Universities and engaged in Scientific / Technological / Engineering / Managerial activities, as the case may be, are eligible for admission as external candidates and shall continue to work in their own organizations. Faculty members of the J.N.T. University Hyderabad and its constituent colleges shall be admitted as internal candidates.

Candidates working in colleges affiliated to the universities are eligible.

VIII. MODE OF SELECTION : Based on Entrance Examination and Interview.

INTERVIEW: Interview will be conducted for the candidates qualified in the Entrance examination conducted by JNTUH, Hyderabad.

- The candidates who qualify the NET / SLET need not write the written test however they should get through in the interview process.

FEE:

On selection for admission, candidates shall be required to pay the prescribed admission fee Rs. 200/-, Registration fee of Rs. 20,000/- per annum and other admissible fee prescribed by the University for External Research Programme. Thereafter the fee has to be paid every semester till the successful completion of the programme and submission of thesis or cancellation of the admission which ever the case may be.

DIRECTOR, ADMISSIONS