

Civil Engineering Department

M Tech Civil Engineering Computer Aided Structural Analysis and Design (CASAD)

*** ABOUT THE PROGRAMME**

With surging requirements of tall, complex and diversified structures, structural engineers need to be equipped with fundamental knowledge, skills and adaptability. Civil Engineering Department offers Postgraduate programme, M Tech Civil Engineering with specialization in Computer Aided Structural Analysis and Design (CASAD) since 2002. The programme is designed with an objective to impart strong theoretical concepts along with appropriate exposure to practices followed in the professional field amongst the post-graduate students. The scope of the programme covers teaching-learning processes, hands-on to sophisticated laboratory equipment's & latest computational tools, knowledge upgradation through expert lectures, practical trainings and major project work and is further extended to involvement of students in research and innovations as well.

*** SALIENT FEATURES OF THE PROGRAMME**

- Qualified and experienced faculty members of the department thrive to impart quality education with up-to-date knowledge.
- Regular site visits local & out-station for students to appraise professional requirements of the field.
- Hosting of distinguished Professors and Scientists from International and National institutions of repute.
- Organizing demonstrations, workshops, field discussions, expert lectures from reputed industries and structural consultancy firms.
- Collaboration of the department with nationally reputed research organizations like CSIR Laboratories, SAC-ISRO, ISR etc. helping students for academic visit, major project work, seminar/workshop participation etc.
- Students work under the supervisions of the faculties as part of externally funded major projects, consultancy projects etc.
- Full-fledged library facilities with sufficient number of titles and eresources allows students to gain the requisite knowledge on subject domains.

❖ LABORATORY AND EXPERIMENTAL FACILITY

Department of Civil Engineering has well-equipped laboratories covering various civil engineering domains. Heavy Structures Laboratory (HSL) is a state-of-the-art experimental facility catering to the need of experimental investigations on various structural components/structural systems under gravity and lateral loading protocols using loading frames & sophisticated instrumentations.

Concrete technology laboratory equipped with advanced facilities & equipment to undertake in-situ testing of mechanical & durability properties of concrete and non-destructive testing. Computer laboratory is equipped with computer systems installed with professional licensed software like STAAD Pro., SAP2000, ETABS, MIDAS-GEN, ABAQUS, SAFE, Pro-SHAKE, AutoCAD, ORIGINLAB, ANSYS, MATLAB etc.





*** PLACEMENT**

Students have been placed well in organizations including; core structural consultancy firms, MNC's, Government organizations, Research center, Academic institutions, etc. Alumni of the department supports our academic activities through experience sharing, providing summer internship, job placement and plays active role.

*** PROJECT THRUST AREAS**

Students work in the thrust areas of structural engineering including; Computational & experimental structural mechanics, Seismic analysis and design structures (RC, steel, masonry, composite), Advances in concrete technology, and Design of special structures - Bridges, Tall buildings, Precast structures, Industrial structures etc.

*** ADMISSIONS**

Applications for admission to postgraduate programme, M Tech Civil Engineering - CASAD are invited from motivated students desiring to pursue rewarding career in the domain of Structural Engineering.

*** ELIGIBILITY CRITERIA**

Candidates having B Tech degree obtained from recognized universities (UGC/AICTE) with minimum 50% or CPI/CGPA of 5.5 in 10 point are eligible to apply for admission in M Tech programme. The students of B. Tech. final year (semester VIII) are also eligible to apply.

❖ FINANCIAL SUPPORT

The first 50% students admitted on the merit of GATE score will be paid a scholarship of Rs. 12,400/- per month. All the remaining GATE qualified and/or non-GATE students will be paid the scholarship of Rs. 8,000/- per month.

For further information regarding admission to postgraduate programme, refer to the website: www.nirmauni.ac.in

Contact us:

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