



School of Infrastructure
Department of Civil Engineering
M.Tech. Structural Engineering
ADMISSIONS OPEN 2024-25



Diamond

DEPARTMENT HIGHLIGHTS

- Constituent Department of the Institution established in the year 1984
- Collaboration with L&T Edu Tech to handle job oriented courses.
- Highly qualified, well experienced and dedicated faculty members
- Well equipped laboratories for academic and research purpose
- Affiliate Faculty Members from Industry and Academic Institutions abroad
- Department offers
 - B.Tech. in Civil Engineering with minor degree programme
 - M.Tech. in Structural Engineering
 - M.Tech. in Construction Engineering and Project Management
 - Ph D in Civil Engineering

ABOUT M.TECH. STRUCTURAL ENGINEERING PROGRAMME

M.Tech. Structural Engineering programme envisages to create high quality professionals with strong conceptual understanding, detailed knowledge and special technical skills appropriate for analysis and design of structures, service life extension of distressed structures etc.

Through this programme the students will be exposed to a blend of theoretical foundation, practical design & advanced construction technologies through adequate computational, analytical and skill development courses.

This programme has a set of core courses and elective courses, which are relevant to the part of the structural engineering education and research. Curriculum is periodically updated based on the feedback from all stakeholders.



Building Units planned and executed using Glass Fibre Reinforced Gypsum (GFRG) Panels by Faculty and Students of Civil Engineering Department

UNIQUE FEATURES OF STRUCTURAL ENGINEERING PROGRAMME

- Collaboration with L&T Edu Tech to handle job oriented courses
- Excellent facilities to encourage start-ups by Students
- Outcome based curriculum and syllabi with much focus on practical aspects
- Project Based learning in selective courses
- Well equipped Structural Engineering and Construction Materials & Technology laboratory
- Laboratory integrated theory courses
- Sponsored research projects from DST – SERB, AICTE, TNSCST and Ministry of Earth Sciences
- Interdisciplinary projects in cutting edge areas
- Seed Money for Innovative and High-Quality Projects
- Earn while you learn scheme
- Hands-on training on latest Software viz., ANSYS, ETABS, etc
- Mandatory internship in consultancy firms / construction projects / research organizations
- Opportunity for the students to involve in real time Testing & Consultancy projects
- Facility to pursue courses through MOOC and transfer of credits

ELIGIBILITY

B.Tech. in Civil Engineering / B.Tech. in Structural Engineering / any equivalent programme

SALIENT RESEARCH FACILITIES

- 100kN Strain Controlled Universal testing machine(computerized)
- 50 & 100 Ton capacity Universal Testing Machine
- 1000kN capacity Beam & Column Loading Frame
- 3000kN / 1000kN / 500kN capacity Compression Testing Machine
- 3 & 5 Ton capacity Servo Controlled Hydraulic Actuator
- Vibration Analyzer with software
- Data logging and signal conditioning system with load cell and LVDT
- Sophisticated Data Acquisition System
- Concrete Permeability Test Equipment
- Digital Lateral Extensometer with longitudinal compressometer



CORE COURSES OFFERED

- Advanced Design of Concrete Structures
- Finite Element Analysis in Structural Engineering
- Advanced Concrete Technology
- Dynamics of Structures
- Earthquake Resistant Design of Structures
- Advanced Design of Metal Structures
- Structural Engineering Design Studio



JOB SKILLS

- Design structural components for large - scale projects
- Ability to plan and involve in bidding processes
- Design concrete for strength and durability expectations with innovative materials and techniques
- Create 2D design documents and 3D models for individual components and overall structural plans using software programs
- Design rehabilitation strategy for distressed structural elements



ATAL Tunnel Visit

Students of M.Tech. (Co.nstruction Engineering and project management) and M.Tech. (Structural Engineering) of 2021 batch visited Atal Tunnel (Himachal Pradesh) under AICTE YUVAK scheme from 23.09.2021 to 02.10.2021. Prime Minister Narendra Modi inaugurated it on 3rd October 2020. The cost of the entire project is 3,500 crore. A 2.25 m tall and 3.6 m wide emergency tunnel has been integrated into the tunnel cross-section beneath the main carriage way for evacuation during emergencies.



SOFTWARE AVAILABLE



VALUE ADDED PROGRAMMES

- Revit Architecture
- Revit Structure
- Navis Works & Robot Structural Analysis

RECRUITERS



MOUs & INDUSTRY INSTITUTE INTERACTION

- Joint Research work with IIT Madras, CSIR-SERC, IGCAR etc
- Collaborative Research with M/s. Vector Corrosion Technologies Ltd, Canada, M/s.Engineering Services International, Kolkata, etc
- MOU with L&T Edu Tech, Chennai, MOU with M/s. Mahindra Consulting Engineers, M/s. EPMCR, M/s. Hitech Concrete Solutions Chennai Pvt. Ltd. and M/s. eStaar Max Technologies Pvt. Ltd., for consultancy work, student internship and placement
- MOU with reputed institutes such as UniversitiTeknologi MARA, Malaysia, National Highway Authority of India (NHAI), University of Stuggart, Germany for students & faculty exchange and joint research



ALUMNI TESTIMONIAL



Er. Harish (2019-2021)

Design Engineer
S&J Engineering Services, Chennai

Civil Engineering Department of B.S. Abdur Rahman Crescent Institute of Science and Technology has talented educators who empower students to succeed in the highly competitive exams and construction industries.



Er. GokulRam (2019-2021)

Senior Engineer
Shriram Groups, Chennai

My Engineering journey and the examples set by the faculty of Civil Engineering at B.S. Abdur Rahman Crescent Institute encouraged me to aim high, push harder, and fulfil my professional goals of ensuring quality occupation both in education and work.

RENOWNED ALUMNI



Ms. Harini.V
2011-2013
Design Engineer
Larsen & Toubro
Chennai



Mr.T.S.Suhail Ahamed
2012-14
Structural Design Engineer
Al Bait Al Mamary
Sharjah, Dubai, UAE



Ms.Niraimathi
2015-2017
Design Engineer
L & T, Chennai



Mr.Sakthi Jeganathan
2016-2018
Design Engineer
Pacifica Companies
Chennai

INSTITUTE LEGACY

- Accredited with “A+” grade by NAAC in the second cycle
- QS I-Gauge Diamond Rating for Teaching Quality and Employability
- QS World University Rankings – Regional Ranking India 2020
- NIRF Ranking 2022: Placed among Top-102 Engineering Colleges in India
- Awarded All India 5th Rank under Swachh Campus Ranking 2019 by AICTE
- All the Engineering Programmes are accredited by NBA
- Awarded ISO 9001-2015 quality standards certified by Det Nerske Veritas, Netherland
- Affiliate faculty from Foreign Universities and Industries
- Programmes offered in collaboration with IBM, ACCA and CIMA
- Efficient mentoring of students with all kind of assistance
- Value added programmes in AI and IoT, Big Data Analytics, Foreign languages, Robotics etc
- Industry internship opportunity to all the students
- Efficient Industry Institute Partnership Cell (IIPC)
- Dynamic Placement and Training Cell to empower the students
- Dedicated Innovation and Incubation Council to support Student Entrepreneurs
- Exclusive cultural and literary clubs providing versatile exposure for students

Fee Details

- Tuition Fee per Semester - **Rs. 40,000**
- Amenities and Service Fee – **Rs. 20,000/-** (Onetime payment at the time of admission)

For further details on fees, scholarship, transportation and hostel fees

Please Visit



CONTACT

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