

37 YEARS OF
ACADEMIC
EXCELLENCE



B.S. Abdur Rahman
Crescent
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956



School of Infrastructure

Department of Civil Engineering

M.Tech. Structural Engineering

ADMISSIONS OPEN 2021 - 22



DEPARTMENT HIGHLIGHTS

- Constituent Department of the Institution established in the year 1984
- 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

- 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

- 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



SOFTWARE AVAILABLE

BENTLEY
MAPS

STAAD
Pro

ANSYS

AUTOCAD

ETABS

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 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 Universiti Teknologi MARA, Malaysia, University of Stuttgart, Germany for students & faculty exchange and joint research



ALUMNI TESTIMONIAL



Mr. Saleem Mohamed, 2009 - 2011, Engineering Manager, Larson & Turbo Constructions Ltd., Chennai

My life at B.S. Abdur Rahman Crescent Institute of Science and Technology made me stronger. I am thankful to all the faculty members who supported and corrected us throughout our education. I loved the infrastructure of the Institute and the Civil Engineering Department. We had a well-equipped Structural Engineering laboratory to do our projects. The faculty members guided us in writing the research paper and publishing in a reputed journal. The events that I took part helped me to grow my confidence level. Finally, I thank one and all of the department faculty for providing me a good platform for my career.

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
- Fourth in India to be awarded 4 stars by QS World Top University Rankings
- QS World University Rankings – Regional Ranking India 2020
- NIRF Ranking 2020: Placed among Top-123 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



CONTACT

Dr. Vasanthi P

Dean, School of Infrastructure

Department of Civil Engineering

Mobile: +91 99400 58415

Email: dean.infrastructure@crescent.education

Dr. Gajalakshmi P

Professor,

Department of Civil Engineering

M.Tech Admission coordinator

Mobile: +91 94443 11403

Email: gajalakshmi@crescent.education

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 youtube.com/channel/BSACrescentInstitute

Admission Help-desk: +91-95432 77888

Email: admissions@crescent.education

GST Road, Vandalur, Chennai 600 048, TN, India.

www.crescent.education