

► Collaborations

The Division of Civil Engineering has entered into MoU with the following Industries and Universities for Curriculum enrichment, Research and Consultancy

Industries	Universities
M/s. Suez Projects India	RWTH Aachen University, Germany
	University of Wisconsin - Milwaukee, USA
M/s. Mahindra Consulting Engineers, Chennai	Ben Gurion University, Israel
M/s. Capital Engineering Consultancy, Sharjah	University of Brandenburg, Germany
M/s. Ray Contractors and Services Pvt Ltd, Hyderabad	Technion University, Israel
M/s. Pollucare Engineers Pvt Ltd, Chennai	Bangladesh Agricultural University, Bangladesh
CSIR-NEERI, Nagpur	
M/s. Synergy School of Business Skills, Coimbatore	
Federation of all Civil Engineers Associations of Tamilnadu and Puduchery (FACET&P)	
Builders Association of India, Coimbatore	

► Our recruiters



► Testimonies



Ms. Mary Diya Jojo
B.Tech. Civil Engineering (2019-23)
L&T, Heavy Engineering

The coursework and the knowledge gained were invaluable in every aspect, resulting in swift success in my professional journey upon completing my studies. Additionally, the practical skills acquired during the program played a pivotal role in navigating the challenges of my chosen career path, ensuring a seamless transition into the professional realm. The comprehensive education not only facilitated immediate success but also laid a solid foundation for continuous growth and achievement throughout my career.



Mr. Ashwin Haridass
B.Tech Civil Engineering (2019-23)
L&T, Geo Structure

The education I have received from Civil Engineering at KITS paved the way for a successful and satisfying career commencement at Larsen and Toubro. In addition to this, the practical skills and in-depth knowledge acquired during my studies have been instrumental in excelling within the dynamic environment of my workplace. The foundation laid by my education has not only contributed to my initial success but continues to be a cornerstone for on-going professional achievements.



Ms. Steffi Joseph Perumpully
M.Tech. Environmental and Water Resources Engineering (2021-23)
Chancellor's Awardee 2023
Research Scholar, The University of South Wales (UNSW) University, Sydney.

I have obtained the opportunity to pursue higher studies in the University of Melbourne. The facilities, guidance and encouragement of faculty played a pivotal role in shaping my academic journey. Thanks to the dedicated staff and supportive environment in Civil Engineering department.



Designing the
Future with
Excellence



Division of CIVIL ENGINEERING

ADMISSIONS 2024

The Head of Division
Civil Engineering

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► About Us

The Division of Civil Engineering has the credibility of equipping more than 4000 Civil Engineers from the year of inception, 1986. The graduates have the technical expertise to cater to the needs of the Society and Industry contributing towards planning and execution of mega projects involving construction of Commercial Buildings, Bridges, Airports and Industrial structures in India and Abroad. The curriculum is framed by a competent Advisory Board consisting experts from Academia, Industry and Alumni.

It is our vision to enable the graduates to pursue their career in corporate sector, R&D and Internationally reputed institutes. To enrich the curriculum, Elective courses are offered by industry experts in different disciplines. Field-oriented projects and Internships are also integrated in the curriculum. Students are given opportunity to undergo the field expertise in the reputed companies and Government bodies.

► Vision

To be an eminent Division producing competent Civil Engineering Graduates, developing perceptible research to render quality professional and community service

► Mission

- To create an ideal ambience for learning by integrating theory with practice.
- To provide Students with opportunities to pursue research to find solutions to the challenges in Civil Engineering.
- To interact with Industries in addressing issues concerning Infrastructure, Resource utilization, Water Resources and Environmental Engineering.

► Programs Offered

- **B.Tech.** Civil Engineering
- **B.Tech.** Civil Engineering (Specialisation in BIM and Digital Twin)
- **B.Tech.** Civil Engineering (Specialisation in GIS and Remote Sensing)
- **M.Tech.** Structural Engineering
- **Ph.D.** Civil Engineering

► Why Civil Engineering @ Karunya

- Academia - Industry Collaborations for Internships and Placement
- Best infrastructure with Hi-tech facilities (Dynamics Lab / NDT Lab / AERONET Facility)
- Industry 5.0 Academic Courses (BIM / ARVR / Geospatial Technology)
- Skill development programs / value added courses (GIS/ GPS/ Drone Technology)
- Advanced computing facilities (CAD Design studio / Structural Design 2D-5D)
- Project and blended based learning / exposure to field and community oriented projects.
- Internship @ Leading MNCs (L&T, Suez, Shapoorji Pallonji, Sobha developers, Mahindra and Mahindra) and National research labs (NEERI - CSIR, CWRDM, ISRO) and International universities (IAESTE)

► Career Opportunities

- Design of Infrastructure / BIM developer
- Construction Management / Urban Planning
- Geospatial Technology / GIS-GPS specialist
- Interior Design / Structural Design / Smart City Development / Water resources management

- Sustainable infrastructure development/ Pollution control
- Intelligent building and Smart transportation systems

► Specialisation - BIM and Digital twin / GIS and Remote sensing

BIM is a 3D digital representation of a built asset. A digital twin is a virtual model of a physical object. A geographic information system is a system that creates, manages, analyzes & maps all types of data. Remote sensing is the science of obtaining information about objects or areas from a distance, typically from aircraft or satellites.

► Laboratories / Computing Facilities

State-of-art laboratory facilities are available in the division to cater to the practical requirements of Industry.

- Material Testing and Characterisation
- Concrete Quality Control
- Advanced Surveying and Geomatics
- Fluid Mechanics and Machinery
- Geo-Technical Engineering
- Environmental Engineering (Water Quality and Pollution Control)
- Non-Destructive Testing
- Computer Aided Design and Drafting

To further enrich the knowledge of the students, certificate courses on latest software tools such as AutoCAD, Revit Architecture, Primavera, STAAD Pro, ETABS, GIS / GPS, ANSYS & Plaxis are offered. Some of the courses offered by the Industry include Drone Technology for Surveying and mapping, Construction Automation and Building Information Modelling.



► Industry 5.0 courses

- Construction Automation
- 3D Printing in Construction
- Artificial Intelligence in Civil Engineering
- AR / VR in Civil Engineering
- BIM and Digital twin

► Funded Research Projects

The division has completed many funded projects. The major funding agencies are Department of Science & Technology (DST), Science and Engineering Research Board (SERB), Ministry of Earth Sciences (MoES), Ministry of Environment and Forests (MoEF). Some of the ongoing projects are on:

- Evaluation of ecosystems services in Wetlands funded by Regional Ramsar convention – East Asia
- Strategies for improving the fire performance of structural concrete - Ministry of Innovation, Hungary

► Consultancy

The division is actively involved in giving solutions to real time problems. Analysis and design of buildings and retaining structures, Repair and retrofitting, Soil investigation, Design of industrial structures, Watershed management, Pollution control measures, Water and waste water treatment, Pavement design, Concrete mix design and testing. All UG and PG Students are involved in the Consultancy project that enhances their employability skill.

