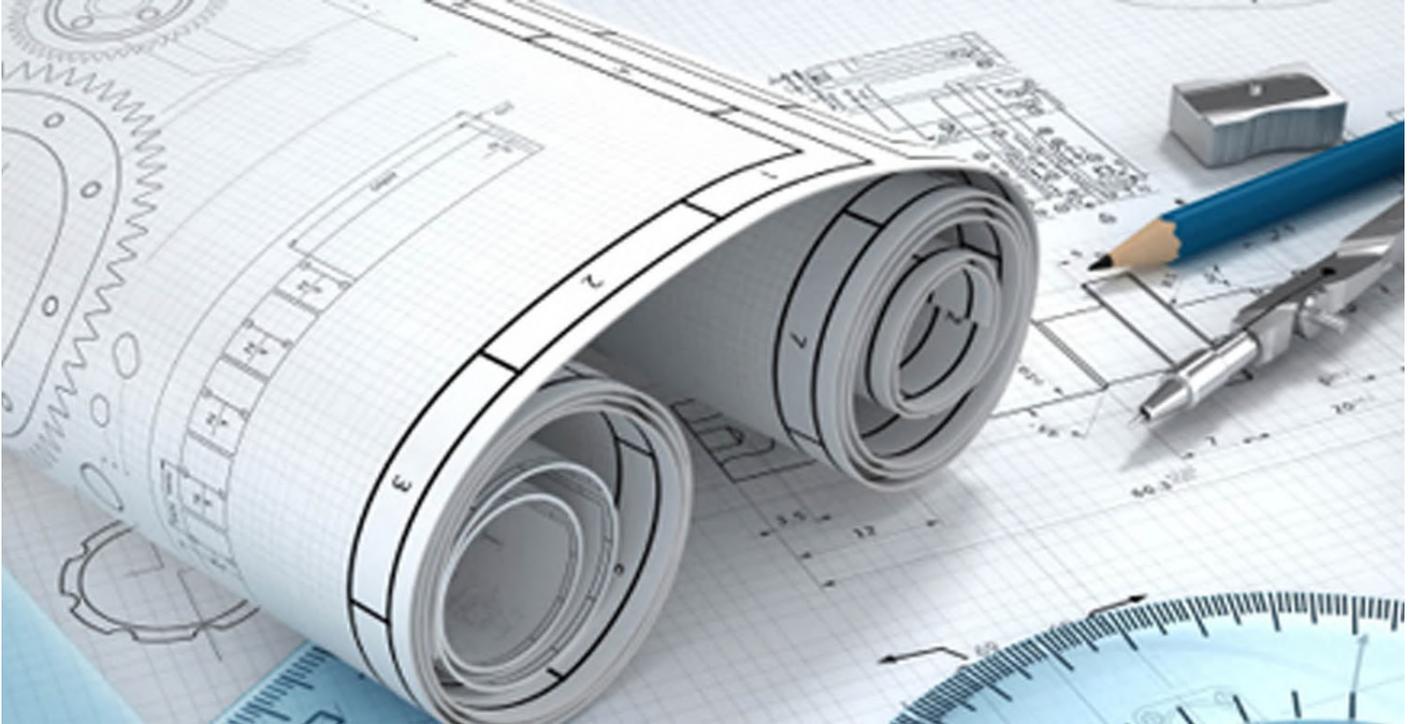




CIVIL ENGINEERING

Civil Engineering



AMRITA
VISHWA VIDYAPEETHAM
DREAMED TO BE UNIVERSITY

Introduction

Civil Engineering is a field of Construction engineering. The four- year under graduate programme leading to the Bachelor of Technology in Civil Engineering equips our graduates with fundamental civil engineering knowledge, a broad set of skills, and an innovative mind set.

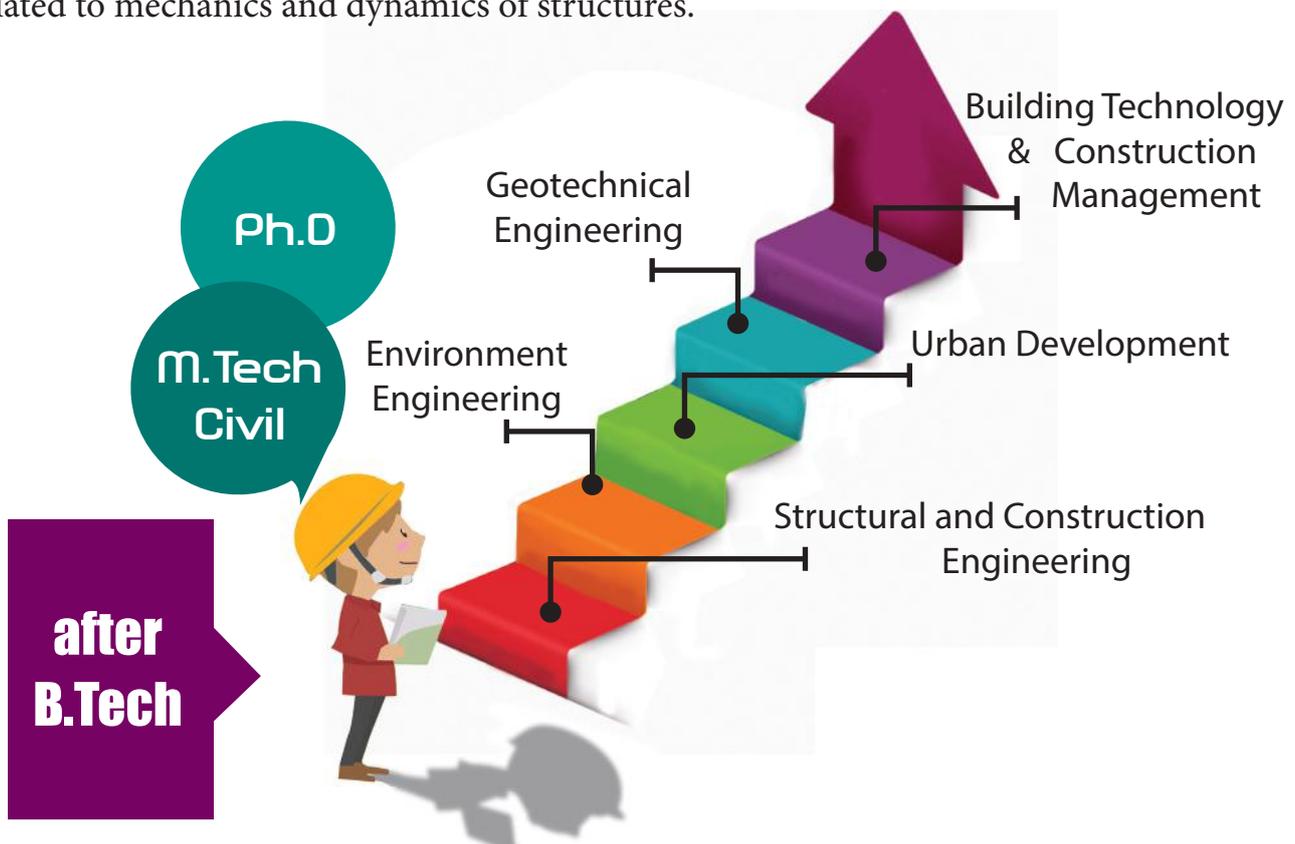
The BTech degree program is designed to offer depth in Civil Engineering technicalities along with the flexibility to select elective courses that meet students' interests and expose them to the breadth of Civil Engineering specialties. If you are planning to pursue your career in Civil Engineering, you have multiple options. Top-class Civil Engineers can choose areas like construction engineering, hydraulic and irrigation engineering, geo-technical engineering, public work engineering, transportation engineering and environmental engineering.

Higher Education Opportunities for Civil Engineering Students



Civil engineers after B.Tech, can pursue master degree and get an edge over others. You can choose Master of Technology (M. Tech.) in Structural and Construction Engineering, Urban Development, Building Technology & Construction Management, Environment Engineering, Geotechnical Engineering and even Ph.D. programmes in thrust areas.

The growth in infrastructure requirements has created a critical need for qualified Structural as well as Construction Engineers. The aim of Masters in Structural and Construction Engineering program is to impart advanced fundamental concepts related to mechanics and dynamics of structures.



Major International Universities for Exchange Programmes

Amrita Centre for International Programs (ACIP) facilitates students to explore opportunities in international studies, research and experience through student exchange programs, dual degree programs and conferences/workshops at leading universities/institutes in US & Europe.



Placements



Civil Engineering students, while preparing for placements need to focus on the general knowledge in civil engineering. Next you should consider preparing for aptitude, mathematics, physics and design structures.

The employers may ask you to prepare a design at a later stage of the interview to see how efficient you are in drawing a big project without any outside help. By any means if you are not able to get placed in the on-campus interview (which is rare if you follow the above steps), then you can go out and apply in the companies you want to work for. In that case you have a choice to apply for certain positions you are interested in.

Civil Engineering student have two options – “Contract Civil Engineer” and “Consultant Civil Engineer”. In contracting engineering, you need to be both at office and on site. This is may be quite challenging as you need to manage both, peers at office and labourers on site. But in consultant civil engineering, you need to be mostly in office and you would advise your clients and other engineers for proper execution of project.

Other than the above classification, there are also “Structural Civil Engineers” who design structures to be structurally strong even before the actual construction begins. If you choose structural engineering, then you should be well versed in drawing.

If you have a general knack for drawing, you can design well by few years of practice. Huge structures like Commercial Complexes, Shopping Malls, Theatres, Convention Halls, Schools, Colleges, Hospitals, Airports, Rail Stations and Industrial Plants like Thermal & Nuclear Power Stations, Oil-rigs etc., come under the purview of Structural Engineers. There are also options for highway engineers who work for construction companies and facilitate construction of roads, highways, bridges, flyovers and tunnels.

Major Industries for Civil Engineers



Top Companies for Civil Engineers (Government & Private Sector)



National Buildings Construction Corporation Limited



Salary range

less than 5 years of
experience
**INR 3 lakhs to
4 lakhs**
Per annum



Foreign countries like
USA, UK
**US \$ 50,000 to
US \$ 65,000**
Per annum



An entry-level Civil Engineer with less than 5 years of experience can expect to earn an average total compensation of INR 300,000 per annum. But in foreign countries like USA, UK, the salary structure is far more attractive. Fetching around US\$50,000 to \$65,000 per annum.