



PROGRAM BROCHURE

**M.TECH STRUCTURAL
ENGINEERING DESIGN**

FACULTY OF TECHNOLOGY

CEPT
UNIVERSITY
| FACULTY
OF TECHNOLOGY



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About CEPT University

CEPT University, established in 1962, is focussed on understanding, designing, planning, constructing, and managing human habitat. Its teaching programs are designed to build thoughtful professionals and its research programs aim to deepen the understanding of human habitat. CEPT University also undertakes advisory projects human habitat. CEPT University also undertakes advisory projects to further the goal of making habitats more liveable.

CEPT University has been recognized as a Centre of Excellence by the Government of Gujarat. CEPT's alumni are leaders in their respective fields in private practice, consulting firms, government organizations, multilateral institutions, and academic institutions across the world.

The University comprises five faculties,

- Faculty of Architecture (FA)**
- Faculty of Planning (FP)**
- Faculty of Technology (FT)**
- Faculty of Design (FD)**
- Faculty of Management (FM)**

About Faculty of Technology at CEPT University

With the Indian construction industry rapidly expanding multifold, there is an increasing need for efficient and qualified professionals to sustain this growth. Our course lays the foundation for students to engage in the dynamics of the industry and understand the construction and design process. With a strong foot-hold on fundamentals and well-rounded exposure, students step out well-equipped to plan, design and construct human habitats.

CEPT established the School of Building Science and Technology (SBST) in 1982 that focuses on issues concerning Planning, Design, Construction & Management of Human Habitats. SBST has now been renamed as Faculty of Technology (FT).

FT offers total of 5 programs:

Bachelor's in Civil Engineering (Honours) - (BCE)

Master's in Building Energy Performance - (MBEP)

Master's in Construction Engineering & Management - (MCEM)

Master's in Geomatics - (MGeo)

Master's in Structural Engineering Design - (MSED)

What is unique about Programmes at FT?

- **Studio Based Pedagogy**
 - Teacher Student Ratio 1:8
 - Creative Problem Solvers
 - Innovative Engineers
- **Pre-Admission Scholarships**
- **Earning while Learning**
- **Study Abroad**
- **Practical Training**
- **Cutting edge Library and Workshops**
- **NABL Accredited Laboratory**
 - Engineering Materials
 - Earthquake Engineering
 - Fluid Mechanics
 - Geotechnical Engineering
 - Concrete Technology
 - Non-Destructive Testing
 - Surveying & Levelling
 - Building Energy Efficiency
 - Environmental Engineering
 - Conservation Lab
- **Computer Lab**
 - Auto Desk Products
 - Bentley Education Suite
 - DIANA FEA
 - ETABS

Master's in Structural Engineering Design (MSED)

CEPT University offers a two-year full-time post-graduate program leading to Master of Technology (M. Tech) in Structural Engineering Design (MSED). The program thrives to cultivate engineering proficiency in the students and working professionals in the field of Structural Engineering, in line with the ever-changing demands of the profession.

In the recent era, a wide gamut of ambitious structures is being designed across the world challenging the structural engineers to connect the demands of geometry, materials, and forces for these structures. With a unique blend of theory and practice, this program offers unparalleled excellence through the rich array of courses delivered by core faculty members and practicing professionals.

The program equips the students with conceptual understanding and advanced knowledge of the materials and areas related to earthquake engineering; Bridges, Silos, Chimneys, Marine structures, Heavy-duty industrial structures; Foundation engineering, Structural analysis and computation; Repairs and restoration of structures.

It is a pioneering program that follows the studio pedagogy wherein live projects under various categories are solved, designed, and detailed by students under the guidance of faculty members. The Studios and courses of the program elicit the critical thinking in the students to face the challenges, seek opportunities and solutions of a given problem with innovative as well as integrative technologies in structural engineering and construction.

The program actively supports student chapters of professional organizations, under which online and on campus events are organized to aid students to reach out to professionals and bridge gaps between academics and industry-based practices in various fields of structural engineering.

Students do have an opportunity to go out of the country for summer winter schools and exchange studies with reputed organizations and universities.

One of the major objectives of the program is to develop competent structural engineers who are industry ready to work in the profession. Graduates of the MSED program have a wide array of choice of career in field of industries, marine structures, bridges, institutional buildings, conservation and academics. They do get engaged in independent research or undertake doctoral study at some of the best academies and research organizations across the world.

Dean & Program Chair's Message



Dr. Aanal Shah

Dean
Faculty of Technology

Program Chair
Structural Engineering
Design

As Dean...

“CEPT University offers teaching programs, aimed to build thoughtful professionals, where the students are engaged with studios offering well-designed life-like problems. This objective is realized by collaborative work of eminent practicing professionals and faculty members at the university. It provides a nurturing environment to the students to learn new skills and gain practical experience giving access to latest software and workshops along with multi-disciplinary learning opportunities.

The program equips students with the advanced knowledge and conceptual understanding of the core areas such as concrete, steel, masonry, timber and composite structures; dynamic impact and earthquake engineering; special structures – bridges, silos, chimneys, marine structures, industrial structures and heavy duty structures; foundation engineering, structural analysis and computation; repairs and restoration of structures.

The program sharpens the research skills of the students to provide a competitive edge while embarking their career. The program also has excellent links with industry which enhances professional skills and improves employability chances of the students.”

As Program Chair...

"The MSED program was conceived with an aim of providing students with sound principles of structures and their application in real world design problems. With a unique blend of theory, practice and studio based learning, it offers unparalleled excellence through the rich array of courses designed by core faculty members and practicing professionals. Starting from elemental level design to system level design along with detailing of structures, our students are exposed to this rigorous journey through models, discussions and problem-solving approaches incorporating national and international standards.

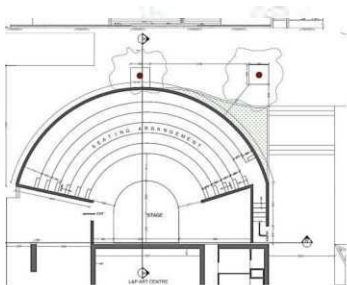
The graduates from this program have embarked upon the professional journey as entrepreneurs, design engineers and academicians. I am sure these dynamic students of the MSED program will be an asset in any organization as they are trained to face the professional challenges along with solving the larger issues of the society.

With a combination of sound analytical background and practical approach, every student of this program is well equipped with the required professional skills and can be the finest choice for any organization."

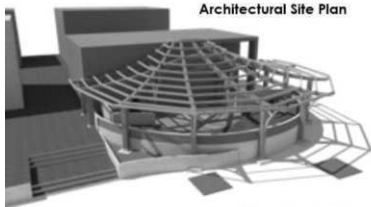


Course Pedagogy

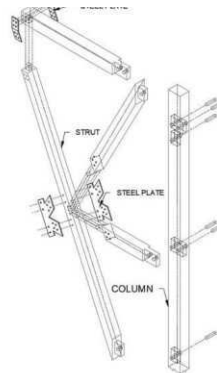
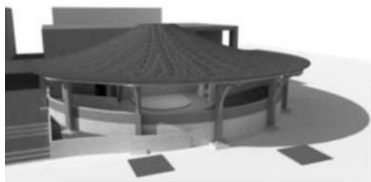
The MSED program at CEPT is centered on Studio-based teaching and learning pedagogy. Students are assigned live building projects straight from the architect's office and they work as professional structural designers from the first day of the course. The complexity is introduced at the later semesters with studios offered in the areas of heavy duty industrial Structures, bridge design and structural strengthening and Retrofitting. Studio pedagogy ensures that each student is doing individual analysis, design and detailing of the given projects for each semester. Studios comprise of 75% of the credit requirement and hence they demand much rigor and depth throughout the tenure of the course. Faculty and Teaching Assistant to student's ratio is 1:8 for all the studios, which ensure personalized guidance to each student. Apart from the full-time faculty members, visiting professors and practicing professionals from the industry regularly teach studios and courses, bringing practical experience to classroom. Additionally on-site learning is encouraged through visits and field trips.



Architectural Site Plan



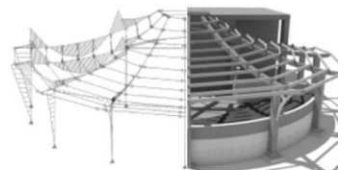
Structural System



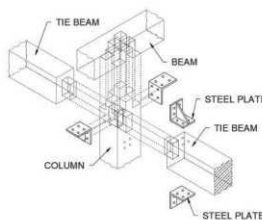
Strut to Column Connection



Shear Force Diagram



Bending Moment Diagram



Beam to Column Connection



Axial Force Diagram

Core Competencies

The MSED program thrives to cultivate engineering proficiency of the students in line with the ever-changing demands of the profession. The Studios and mandatory courses of the program elicit the critical thinking of the students to face the challenges, seek opportunities and solutions for a given problem with innovative as well as integrative technologies in structural engineering and construction.

The role of structural engineers in the construction industry is changing to meet the demands of the future. The learning pedagogy of the MSED program is designed to provide professionals with transferable skills such as problem-solving, innovation, communication, and collaboration, as well as the technical and domain knowledge they will need to address the sector's problems and changing dynamics.

The graduates of this program can develop the optimized structural systems, analyze, design and detail the structures at a professional level. They are trained to visualize the flow of the forces and arrive at the solution keeping in mind the safety and serviceability of any structure. Through the strong mathematical calculations and reasoning capability, they can justify the final proposed design of a structure.



Course Structure

The two-year program leading to award of Master of Technology in Structural Engineering Design is designed to enhance skills & knowledge of structural design for the students and working professionals in the construction and civil engineering sector.

The program aims to train a student in practical art and philosophy of structural design. It also gives the insight into investigation, assessment and strengthening of the damaged structures. The program also engages the students into the design of ongoing important industrial structures such as power plant structures, chimneys, silos, water tanks, bridges and ports.

The MSED program focuses on building professional capacities and therefore, they are concentrated on 'studios'. The studio-based courses wherein all students work on live projects and come up with their own transformed structural systems, analysis and design. The eminent professionals from design offices are invited to teach the students and share their experiences.

Total : 80 Credits

Studios : 12 Credits each , Mandatory Courses : 2 Credits each

Studio 4 : 14 Credits

Others (Electives + SWS) : 12 Credits

| Semester | Studios | Mandatory Courses |
|-----------------|---|---|
| 1. | Structural Forms & Materials | Advanced Structural Analysis Advanced Geo-technical Engineering Effective Communication |
| 2. | Design of Reinforced Concrete Structures | Earthquake Engineering Wind Engineering Evaluation of Failures, Repair & Rehabilitation of Structures |
| 3. | Design of Steel Structures | Design of Chimneys Design of Silos Design of Liquid Retaining Structures |
| 4. | Design Studio (14 Credits) : Design of Bridges / Design of Long Span Complex Structures / Structural Strengthening and Rehabilitation | |

Course Curriculum

Semester –I

Structural Forms and Materials (12 credits)

The studio intends to develop professional competencies in students to design a given project with a unique blend of experimental and computational modelling applications through critical thinking led by hands on experience in workshop and laboratory. Students will be doing testing of materials in the laboratory and will check the relevant structural properties as per Indian standards. The students will then be given a site and a project, and they will have to develop the form and do the preliminary structural analysis for the chosen material and design submitted.

Mandatory Course: Advanced Structural Analysis (2 credits)

The course aims to develop behavioural understanding of different types of framed structures through advanced matrix methods of analysis, used in widespread computer software. Initial focus would be on principal concepts to analyse structures having lesser degree of freedom manually; and thereafter its application to structures having large degree of freedom with aid of computers. The main emphasis shall be on the behaviour, analysis methodology and interpretation of analysis results.

Mandatory Course: Advanced Geo-Technical Engineering (2 credits)

The course aims to develop knowledge about various field and laboratory investigation techniques, to interpret the observations of Geo-technical investigations. The elementary principles of shallow and deep foundation design with reference to site investigation, soil classification and review of index properties along with experimental tests required to understand the various parameters of soil will be covered. Methods of determining the bearing capacity and settlement calculations, ground improvement and reclamation techniques, and applications for the same in the given condition of site shall be discussed.

Mandatory Course: Effective Communication (2 credits)

The Writing and Communication course sets out to familiarize first year of Master's students with writing and research. The course engages the students in an intensive writing practice in which they learn different forms of writing and practice techniques along with a formal presentation. The larger aim of the course is to turn writing into a powerful tool for students to use in their professional and/or academic endeavours and hence they also uses data from the field. Upon completion, the students will be able to use writing as a way to ideate and convey their logic, the processes they follow, and analysis they do as field experts to a varied audience.

Course Curriculum

Semester –II

Design of Reinforced Cement Concrete Structures (12 credits)

The studio focuses on design of structures with reinforced concrete. Students will be assigned individual projects along with the problem statement to develop the structural system considering the gravity loads at initial stage. Students will prepare physical models to test on the shake table observing patterns of structural failure when subjected to lateral forces. The required rectifications in the structural system to incorporate lateral forces will be discussed. Students will finally design the projects for gravity loads and lateral loads with optimized system and document it along with detailed structural drawings. The final output will be in form of a report, files in software and a detailed drawing for a floor, a frame with shear wall and a foundation.

Mandatory Course: Earthquake Engineering (2 credits)

The course aims to provide the connection between seismology, seismic forces and building reaction to seismic forces. Initial part will focus on basics of seismology with further quantification of seismic effects into mathematical dynamics. Co-relation of force, mass and acceleration with stiffness and natural period of structures including damping will be established. Detailed discussions on important clauses of IS1893 (part 1) 2016 will be covered.

Mandatory Course: Wind Engineering (2 credits)

The course aims to develop knowledge about static and dynamic wind analysis of structures and its terminologies as per IS875 (part-3)-2015. Wind pressure calculation for RC and steel structures with examples along with its practical application in structural analysis using STAAD software will be covered.

Mandatory Course: Evaluation of Failures, Repair, and Rehabilitation of Structures (2 credits)

The course aims to appraise students about various causes of distress in structures at an early stage of service life and sometimes collapse too. The course discusses the investigation desired to propose the techniques of repairs, rehabilitation and strengthening of the distressed structures to improve its performance and restore its desired functions thereby increasing its functional life.

Course Curriculum

Semester –III

Design of Steel Structures (12 credits)

The studio focuses to develop professional competencies of students to analyse and design heavy duty industrial and commercial steel structures. The students will be designing live projects and the outputs will be presented in form of design reports and detailed drawings.

Mandatory Course:Design of Chimneys (2 credits)

The course aims to appraise students regarding the analysis, design and detailing of chimneys as per latest Indian standard. The course will also cover the requirement and dimensioning of chimney, design factors, stress in chimney shaft due to self-weight and wind and stresses due to temperature difference.

Mandatory Course:Design of Silos (2 credits)

The course aims to appraise students regarding the analysis, design and detailing of Silos as per latest Indian standard. The course will also cover the requirement, shape, dimensioning and layout of silo and design philosophies.

Mandatory Course:Design of Liquid Retaining Structures (2 credits)

The course aims to appraise students regarding the analysis and design of different types of liquid retaining structures as per latest Indian standard IS: 3370-2009 including seismic forces and special detailing requirements. History of Liquid retaining structures and behaviour of the same with different parameters and conditions will also be discussed.

Course Curriculum

Semester –IV

Design of Bridges (14 credits)

The main objective of this studio is to prepare structural engineers having strong fundamental knowledge related to theory-applications of various engineering aspects of bridge design. Various types of bridges across the world will be discussed along with the factors affecting the selection of bridge site, material, span and system. Students will be given individual problem statement, for which they will have to adapt a suitable bridge configuration. Students will analyse and design various components of assigned bridge along with substructure using Indian standards of bridges. The students will attain a desired level of proficiency to become a good bridge designer.

Design of Long Span Complex Structures (14 credits)

This studio aims to develop a collaborative design approach with computational and parametric tools for large/long span structures, which are typically designed considering the global stiffness of the structure over individual member stiffness. Students will be working on the assigned problem, develop complex forms in a suitable software and will be doing the structural analysis through complementing tool such as Karamba or through regular structural design software like STAAD / ETABS. This is an emerging concept in structural design of the complex geometries. Large span structures such as pedestrian bridges, stadiums, airports etc will be given and students will engage right from the form development to the final structural design using different construction materials and detailing of the whole structure.

Structural Strengthening and Rehabilitation (14 credits)

The studio aims to offer a comprehensive training program that focuses on structural strengthening and rehabilitation. This studio is designed to educate students on both the theoretical and practical aspects of sustainable building techniques towards strengthening structures built with different materials. Students will learn how to strengthen existing structures to meet current standards and gain knowledge on damage diagnosis, nonlinear structural analysis, and fitness-for-safety analysis through real-life case studies. Moreover, the program offers a unique opportunity for students to conduct parametric failure analysis, optimisation, and feasibility studies of structures at micro and meso levels. This will help students gain a deeper understanding of strengthening techniques and provide them with unique perspectives on how to approach various structural issues.



Electives & Summer Winter School (SWS)

These programs differ from the regular semesters in terms of structure, approach and content. Students can select from range of electives offered by FT or any other faculty at CEPT and select from bouquet of SWS courses between semesters for exciting opportunities to learn beyond the classrooms. Faculty members help students understand the nature and orientation of the courses and enable them to make well-informed choices. To achieve this, they explicitly state the objectives, mode of teaching or working, and learning outcomes of the courses.

The courses in SWS are intense and are for short durations of between two to four weeks. In the previous SWS, students have favored workshop sessions, activities that are installation oriented and those which require travel; and opportunities that provide acquisition of specific skills. The elective courses and SWS are unique opportunities to expand horizons of learning, interact with a large group of enthusiastic and talented students, practitioners and academicians, and showcase CEPT academic initiatives. In the years to come, programs will explore more avenues and grow in strength.

Elective Courses

- Designing with Timber
- Prestressed Concrete
- Design of Masonry Structure
- Plates and Shells: Theory and Computer Aided Analysis
- Design of Marine Structure
- Finite Element Methods
- Design of Ultra Highrise structures
- Statistics C++/ Python for the beginners
- Electives from other faculties

Teaching Team



Aanal Shah (PhD)



Dhara Shah (PhD)



Kanisha Vora



Minoli Shah



Bhairav Patel



Meet Satishkumar Shah



Aashlesh Gandhi



Aarti Shah



Dhruvin Parekh



Hiten Shah



Kirtiika Chhefia (PhD)



Mihir Vora



Rupal Shah



Rakesh Shah



Roshan Prajapati



Shashin Patel



Samir Mehta

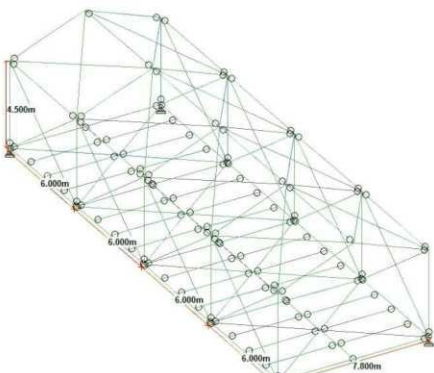
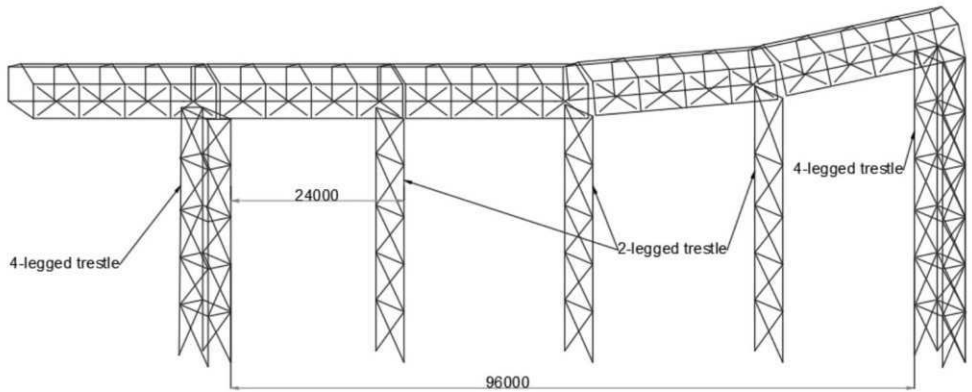


Pratik Gajjar

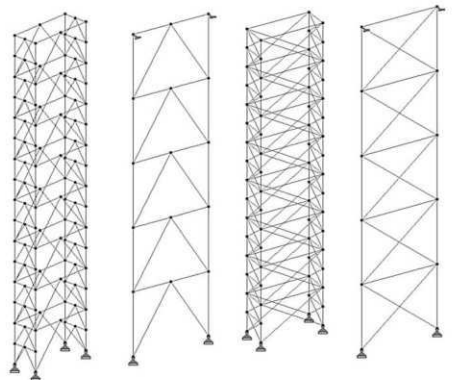
Summer Internships

Students have done internships at various structural consultancy firms to obtain the necessary knowledge and experience in the field of structural engineering and design. It enables them to understand the concepts and apply them during the semester tutoring, also giving them exposure to operations of the workplace.

Our students interned with a wide range of engineering and consultancy firms, including Ami Engineers, Sterling Engineering, Sai Consultants, S3M, NK Shah Consulting Engineers LLP, Parvati Techno Consultant, StructArt, Setu Infrastrucure, Eckersley O'Callaghan, EPICONS Consultants Pvt Ltd, Vinod Shah Consulting Engineers Pvt Ltd., Pedanekar and Associates, L.N. Malviya Infra Projects Pvt Ltd., Aries Consulting Engineers, Silicon Engineering Consultants Pvt. Ltd., etc.



Conveyor Gallery



V Bracings

X Bracings

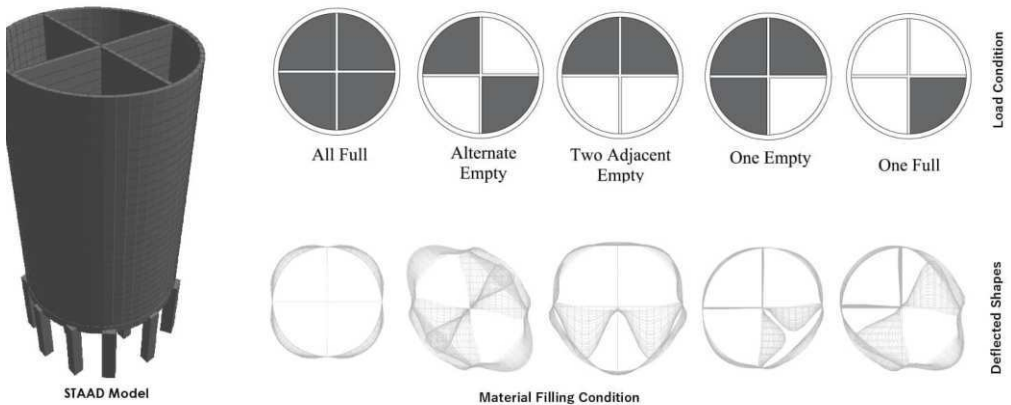
Lectures & Webinars

Apart from classroom teachings, engineering graduates and post graduates are expected to possess a wide array of skills and specialized knowledge to ensure that a given task is properly planned, designed, implemented and managed. To facilitate this, FT has established student chapters with professional organizations under relevant programs to connect them to professionals and bridge gaps between academics and industry based practices in various fields of civil engineering. FT invites some of the brightest minds from around the world to speak to students on cutting-edge developments in construction, architecture, planning, design, urban habitat development, and other global issues. Student chapters serve as hubs of extracurricular activities and a gateway to forums, panel discussions, expert talks, educational tours, competitions and symposiums, which cultivate interpersonal, professional and technical expertise of students.

Currently, FT is hosting the following student chapters:

- Indian Association of Structural Engineers (IAStructE), Gujarat Chapter
- IC - American Concrete Institute
- Indian Plumbing Association (IPA)
- IEEE-GRSS

The University invites some of the brightest minds from around the world to speak to students on cutting-edge developments in construction, architecture, planning, design, urban habitat development, and other global issues. Following is an indicative list of webinars hosted at Faculty of Technology in association with IAStructE :



Site Visits



Learning Environment & Campus Life

The atmosphere on CEPT campus is lively and conducive to free thinking. Interdisciplinary learning is encouraged and students get to collaborate with other built-environment professionals within the Eco-system of CEPT University.

Students have access to labs that facilitates various testing and mapping related to Engineering Materials, Fluid Mechanics, Geotechnical Engineering, Concrete Technology, Non Destructive Testing, Surveying and Leveling, Remote Sensing, GIS and Building Energy Efficiency, and Environmental Studies. The labs also provide the earthquake shake table for shaking structural models or building components, to assess their seismic performance. The FT-BIM Advancement Lab, in collaboration with Bentley BIM Institute, houses more than 50 licensed softwares including STAAD connect edition (whole Bentley package), CSI – ETABS and SAP, AutoCAD and Microsoft Office.

In-house IT support, premium printing and stationery facilities, student service office, university press and other services are some additional facilities that enhance the learning environment at the university. The state-of-the-art library has a wide variety of books, journals, and other resources available to all students making CEPT University, one of the best for built-environment resources in the country.



Student Activities

CEPT University boasts of its multifarious and multifaceted culture on and off-campus, reinforcing its image of an institute that inculcates an all-round development of its students. The multicultural aspect of CEPT University makes it possible for students to celebrate traditional and regional festivals on campus with zest. Sports competitions such as the Amity Cricket Cup, Volleyball Tournament, Box Cricket League, and others, fosters a positive environment, giving ample opportunities to participate.

Student Chapters at FT are student-led initiatives that organize online and on-campus events for students to meet and learn from industry professionals, as well as engage with other students while expanding their professional network. The student body also quarterly publishes the FT newsletter, highlighting student/faculty activities and achievements, expert lectures delivered, site visits, industry insights and latest developments, alumni interaction, placement, and internship details along with other social activities.

The Student-Alumni interaction is a platform where students can communicate and network with alumni working all around the world about their future career prospects. Our students also actively participate in national scholarship programs, conferences, and technical competitions.



Collaboration

The Faculty of Technology (FT) is keen to develop collaborations with renowned industries under the umbrella of MOU and EOI on a willingness to undertake activities related to research and development in the construction sector. The 3 major domains of collaborations are within the industry, international universities for exchange programs, and students' chapters with professional associations.

The following are the updates till date-for the year-2021-2024.

A. Industry MOUs

1. Artocrete
2. Visilean Cloud
3. Association of Geospatial Industries (AGI) s.
4. Oizom Instruments Private Ltd.
5. Godrej
6. Shivalik Group
7. NeoGeo Technologies Private Ltd.
8. ESRI India
9. Indian Space and Research Organization

B. FT International Universities - Exchange Programs

1. University of Melbourne - Australia
2. Polis University - Albania
3. HFT Stuttgart University - Germany
4. Instituto Politécnico de Castelo Branco (IPCB) - Portugal
5. Polimi University - Italy

C. Students' Chapters

Students' Chapters are formed with various objectives, some subject-specific, but broadly these chapters shall bridge the gap between standard academic courses and the current industrial practices. Students learn to work in groups, organize events, the opportunity to interact with industry experts, and participate in events and competitions.

Collaboration

They facilitate:

1. Better connection with associations and their activities.
2. Can participate in online webinar series, e-courses, expert lectures, and other programs offered by such organizations.
3. Students get the opportunity to volunteer for association events, thereby enhancing their organizational skills.
4. Opportunities for interaction with professionals for a future career path, recent trends, research, etc.
5. Association helps to promote events within their group resulting in better participation.
6. Institute gets resource persons for their academic programs and juries.

Below are the student chapters initiated by The Faculty of Technology

1. IAStructure - Indian Association of Structural Engineering -Established in 2019
2. IPA - Indian Plumbing Association -Established in November 2021
3. IEEE GRSS - Geoscience and Remote Sensing Society -Established in October 2022
4. IC-ACI - India Chapter of American Concrete Institute -Established in December 2022

500+ Alumni making impact in the industry - leaders in their respective fields in private practice practice, consulting firms, government organizations, multilateral institutions and academic institutions across the world.

Why hire us?

1. Beyond Four Walls

The teaching pedagogy of CEPT emphasizes on the practical application of knowledge. The complete life cycle of a project is studied, and the theory involved in managing a project is supplemented with real-life examples in the studio. Further, exposure to live projects in the studios and in the form of internships and expert lectures, provide limitless learning to the students, extending far beyond the four walls of the classroom.

2. Future Ready

The MSED program ensures that the students possess the necessary software skills that are required in the industry. The knowledge of theory coupled with technical skills helps the students to adapt faster in the practice, making them competent in finding the perfect blend between design and engineering.

3. Guided by the Best

The students in the MSED program are not only guided by excellent academia, but also by industry leaders associated with reputed organizations. The review, evaluation, critique, and guidance of the best from the field help mould these young minds and provides a blueprint for the institution and the students to evolve in academic prospects.

4. Balancing Act

CEPT University perseveres to produce students with a holistic personality. Presentations form an integral part of the curriculum, equipping the students with the much-needed soft skills along with the technical know-how. The comprehensive development inculcates a sense of conceptual clarity, and leadership ability, also training the students to structure their ideas logically.

5. A Class of its Own

The culture at MSED helps the graduates become complete professionals with proficiencies ranging from technical understanding to practical application.

6. We Adapt

CEPT University aims to create engineers who do not stop due to obstacles and effortlessly adapt to changes. This fundamental outlook has helped the management and students work through situations of uncertainty, such as a global pandemic, without any impact on the quality of work.

Past Recruiters

| | | | | |
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Testimonials from Recruiters



Mr. Rakesh Shah (Managing Partner at S3M Design Consultants LLP)

"CEPT students of MSED are well versed with design of industrial structures and special structures. They add value to the structural engineering department of S3M."



Mr. Anal Shah (Owner N. K. Shah Consulting Engineers LLP)

"Our office has quite a few CEPT MSED students working since many years now. We have found that the students from the Program are well versed in structural lot of high quality of education they have acquired has aided them in becoming successful professionals while working in the domain. CEPT has instilled in them a strong work, Ethic, and the high quality of education they have acquired has aided them in becoming successful professionals."



Mr. Sanjeev Kapasi (Owner Grid Consultants and Engineers and Global Marine Engineering Consultancy)

"CEPT students have in-depth knowledge and complete understanding of variety of structures and show appreciable skills in an office environment. Especially the practice carried out in the studio at CEPT helps MSED students stand out as compared to others. They blend in the practical field immediately because of this. Overall, they perform really well."

Alumni Testimonials

Hancy Mathew | MSED (2020-2022)

From Andaman and Nicobar Islands, I'm delighted to have chosen CEPT for my postgraduate studies. The intriguing studios teach us a practical approach to problem-solving. Electives and SWS open students' minds to multi disciplinary problem solutions. Accessible teachers and insights from on-field professionals enhance this beneficial experience.

Anubhav Lakra | MSED (2020-2022)

At CEPT, the freedom to conceive and test practical ideas stands out. Coming from Delhi, I've formed friendships across diverse cultural backgrounds and branches. Faculty members ensure interactive and interesting sessions, making this a decision I proudly proclaim. Surprisingly, the campus exudes warmth and liveliness through fun, learning, and camaraderie, making time breeze by with productivity.

Dish Shah | MSED (2020-2022)

CEPT University has completely transformed me both professionally and personally. It has provided a new philosophical perspective on viewing structures and connecting them with nature. CEPT's studio pedagogy, assigning live projects for analysis, design, and detailing, prepares students for the industry. The dedication of core faculty members and the knowledge of visiting faculty members encourage smart learning. The university offers a vibrant campus life and a well-stocked library with books and journals by reputed authors. I am confident that the learning at CEPT will guide me in the right direction in my field.

Julia Caroline | MSED (2020-2022)

In a world adapting to new norms, studying at CEPT surpassed my expectations for postgraduate education, especially during a pandemic. The curriculum challenges us to think unconventionally and devise real-time solutions to design problems. Interacting with classmates from diverse backgrounds is a bonus, and listening to expert lectures from industry professionals is invaluable.

Student Testimonials



Jigar Lalwani | MSED (2021-2023)

CEPT University's Structural Engineering Master's program significantly enriched my expertise through a comprehensive curriculum and expert guidance. Real-world projects and interdisciplinary collaboration provided hands-on experience and access to cutting-edge resources. This emphasis on practical skills uniquely prepared me for structural engineering challenges, expanding my technical proficiency and instilling confidence. Overall, this program laid a solid foundation for my professional journey.



Sharmistha Markwana | MSED (2021-2023)

My journey at CEPT University has been incredible. The Master's in Structural Engineering Design program achieves a balance between practical design approaches and engineering fundamentals. The studio learning method encourages critical thinking and innovative problem-solving, facilitating engagement in real-world projects. Guided by core and visiting faculty members, experts in fields like industrial structures and marine structures, students gain comprehensive skills and confidence.



Manan Palan | MSED (2021-2023)

CEPT University's Structural Engineering Design Master's program strikingly balances theoretical knowledge and practical applications, creating an exceptional learning journey. Its distinctive emphasis on practical-based learning, incorporating a hands-on approach and real-world case studies, allowed me to apply theoretical concepts effectively. The faculty, passionate industry experts, contribute significantly to the learning experience. Every project and assignment within the program is an opportunity for personal growth, challenging students to think bigger and work smarter.



Shruti Pindoriya | MSED (2021-2023)

Enrolling in CEPT University's Structural Engineering Master's program profoundly enriched my skills. The comprehensive curriculum and expert mentorship elevated both my theoretical understanding and practical abilities. Active participation in practical projects and interdisciplinary collaboration proved instrumental. The program's emphasis on hands-on experience and access to advanced resources uniquely positioned me for the intricacies of structural engineering. In summary, this educational journey broadened my technical competence and instilled confidence to address complex engineering issues, laying a robust groundwork for professional advancement.



UNIVERSITY DETAILS

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