Outcomes

- Motivate students for research by giving opportunity to work on sponsored projects.
- Enchasing Technical writing skills through paper, project and report writing.
- Emphasize on Industry-Academia partnership for better understanding of engineering education and application.
- Analysis of Thermal systems with the help of mathematical and simulation tools.
- Continuous evaluation and closed loop feedback system enhancing self motivation, transparency and learning.

Eligibility: A candidate shall have passed the qualifying examination in Mechanical Engineering discipline with 50% (45% for SC/ST/SEBC candidates) marks at the qualifying examination.

M. Tech (CSE) - Specialization in Internet of Things

Objectives

- **Students will be able to:**
  - Understand basics of embedded systems, hardware devices, and IoT tools.
  - Analyze real-time practical issues and apply internet of things concepts in providing innovative solutions.
  - Learn and design in-depth research process to address scientific and societal problems.

Outcomes

- **Students will be able to:**
  - Review and distinguish various embedded systems, hardware devices, and IoT tools.
  - Evaluate real-time case studies and generate creative ideas.
  - Design and publish innovative research methodologies, processes in the form of quality research publications.
  - Create, discover, invent and innovate solutions for societal problems.

Eligibility: A candidate shall have passed the qualifying examination in CSE/CE/IT/ME/EC/EE/Electronics and any other relevant disciplines approved by UGC with 50% (45% for SC/ST/SEBC candidates) marks in the qualifying examination.

Admission Process: Admission to 100% seats of the MTech program will be through ACPC (Admission Committee for Professional Courses), Government of Gujarat on basis of the merit list prepared by the ACPC.

Total no. of seats = 24 (6 per stream)

Stipend: Students admitted through qualified GATE score will be paid a stipend of Rs. 10,000/- per month. All the remaining non-GATE students will be paid the stipend of Rs. 8,000/- per month. Minimum 70% Marks for stipend to qualified GATE/ Non-GATE students (% equivalent certificate is to be attached if the marks statement is in Grade/CPI/CGPA or any other format except in % marks)

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SCHOOL OF LIBERAL STUDIES AND EDUCATION
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BE WHAT YOU WANT TO BE
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SCHOOL OF ENGINEERING AND TECHNOLOGY

M.Tech

NAVRACHANA UNIVERSITY

Navrachana University is a UGC approved University meeting norms and requirements of UGC and AICTE. Navrachana University comprises five schools offering a variety of Under-Graduate and Post-Graduate Programs.

360° Development	**Vibrant Campus** Life	**Project** Based **Learning**
Premium Placements	**International Exposure**	**Creating Job Creators**

M.Tech PROGRAM

M.Tech Program

To emerge as a center of excellence for holistic higher education, the University has established a top-class School of Engineering and Technology as a key provider of knowledge through teaching, research and industry connect in the field of Engineering and Technology. The M.Tech Program has the concept of pure and applied research as well as application of engineering theory into practice as its core philosophy.

- Emphasize on core engineering with strong laboratory component.
- State-of-the-art modern curriculum incorporating the best engineering concepts and practices.
- Hands-on-training on practical problems.
- Continuous evaluation and closed loop feedback system enhancing self motivation, transparency and learning.
- Emphasize on Industry-Academia partnership for better understanding of engineering education and application.

M.Tech Program in Navrachana University has four specialized courses, these are:

- Structural Engineering (In Civil Engineering Branch)
- Power System Engineering (In Electrical Engineering Branch)
- Thermal Engineering (In Mechanical Engineering Branch)
- Internet of Things (In Computer Science and Engineering branch)

Engineering education and profession is a challenging and rewarding for students who are talented and creative. It calls for developing expertise in designing technological systems to benefit the society. In addition, the problem-solving strategies learned in engineering are readily transferable. While the curriculums of all M.Tech programs have some common pattern in the courses, however, every program has educational characteristic unique to its own. The programs have a definite academic philosophy and pedagogy which imparts a distinct identity in NUV's technical education. We follow a credit-based semester system that is followed internationally and take some time to understand the system and the grading pattern.

M.Tech - Structural Engineering

Objectives

The MTech in Structural Engineering program at Navrachana University is designed to prepare the graduates to become innovative structural engineers and designers with sound fundamentals and background in structural engineering with an ability to develop strong sustainable infrastructure system.

The theoretical and behavioural study of structures is complemented with research methodology, seminar and projects along with design courses.

Outcome

- Experience a broad curriculum in theory and practice
- Core knowledge in advanced computational methods, high performance analysis and design of structures, earthquake engineering, foundation design, prestressed concrete, repair and rehabilitation of structures
- Ability to solve a structural engineering problem

Eligibility: A candidate shall have passed the qualifying examination in Civil Engineering discipline with 50% (45% for SC/ST/SEBC candidates) marks at the qualifying examination.

M.Tech - Power System Engineering

Objectives

Students will be able to solve engineering / industrial problems by employing various learning resources.
Students will be able to design products to meet social economic demand by innovative ideas, take up research and development work in the field.
Students will be able to communicate effectively through oral and written presentation of technical reports, adopting lifelong learning with integrity and ethics.

Outcomes

- Model and analyze the power systems with the help of mathematical and simulation tools.
- Understand and analyze requirement of power system engineering and electrical machines.
- Exhibit skill and knowledge to design and implement power system and its protections.
- Improve their knowledge by literature survey and taking up research and development work.
- Hands-on experiments and perform latest instruments as per need for research.
- Continuous evaluation and closed loop feedback system enhancing self motivation, transparency and learning.
- Communicate effectively through oral and written presentation of technical reports.
- Emphasize on Industry-Academia partnership for better understanding of engineering education and application.

Eligibility: A candidate shall have passed the qualifying examination in Electrical Engineering discipline with 50% (45% for SC/ST/SEBC candidates) marks at the qualifying examination.

M.Tech - Thermal & Fluid Engineering

Objectives

- Students will be able to solve engineering problems using various learning resources.
- Students will be able to take up research and development work in the field of Thermal and Fluid Enginering.
- Students will be able to communicate effectively through oral and written presentation of technical reports, adopting lifelong learning with integrity and ethics.