



योग: कर्मसु कौशलम्

Darshan
UNIVERSITY

B.Tech.
MECHANICAL ENGINEERING



A
technical
under-graduate
program
that focuses on
skill & practical oriented
education to make students
industry ready

B.Tech Mechanical Engineering

The Mechanical Engineering is one of the most diverse and versatile field of engineering. It is the application of science and technology to solve real-world problems. The program emphasizes the strong theoretical fundamentals of mechanical engineering by imparting practical and hands-on experience. The field of mechanical engineering touches virtually every aspect of modern life.

The program is ideal for the students who wish to pursue their career in industrial sectors like Automobile, Aviation, CAD/CAM, Defense, Energy, FMCG, HVAC, Manufacturing, Marine, Railways, Oil & Gas, Pharma, Robotics and more..

Course Duration: 4 Years | **Intake:** 60 | **Tuition Fees:** Rs. 40,500* Per Semester

Department of Mechanical Engineering @ DU

The Department at Darshan University (DU) aims to provide an academic atmosphere and industrial exposure to young minds by focusing on various **skill development activities** apart from curriculum. The department feels privileged to have dedicated, experienced, and energetic faculties offering their profound knowledge and an eye for innovation & learning. The department has established Student Chapter in association with the American Society of Mechanical Engineers (ASME).

10

State-of-art Laboratories
(Well-equipped laboratories as per the need of industry)

























4

Ultra-Modern Laboratories
AR Studio, 3D Printing, Pneumatics, Robotics

40+

High End Computers
for extensive training on CAD/CAM/CAE software

Skill Development Activities

Sem.-3	Sem.-4	Sem.-5	Sem.-6	Sem.-7	Sem.-8
 AutoCAD	 Creo	 MS-Office	 AC Troubleshooting	 AR	 Mock Interview
 Material Testing	 Casting Simulation	 Xchanger Suite HTRi	 FEA	 CNC	 Aptitude
 GD&T	 Flow Measurement	 Welding	 PLC/SCADA	 Rapid Prototyping	 Group Discussion
 Measurement	 Pump Troubleshooting	 Machine Tools	 Pneumatics	 Robotics	 Soft Skills

B.Tech @ DARSHAN UNIVERSITY

- Highly Qualified, Well Experienced, Industry Linked and Dedicated Faculties.
- Continuous upgradation of laboratories to meet the dynamic industry demands.
- Focus on skill development activities which makes students industry-ready.
- Exposure to cutting-edge technologies through seminars, workshops and expert talk.
- Students have privilege to earn & learn by participating in live consultancy work.
- Excellent placement track record.



Syllabus

Semester-1

- Basics of Electrical Engineering
- Basics of Environmental Studies
- Computer Aided Engineering Graphics
- Mathematics-I
- Mechanical Workshop
- Office Automation Tools

Semester-2

- Basic Electronics Workshop
- Elements of Mechanical Engineering
- Engineering Science for ME
- English for Communication
- Indian Constitution
- Mathematics-II
- Programming for Problem Solving for ME

Semester-3

- Engineering Thermodynamics
- Essence of Indian Traditional Knowledge
- General Aptitude & Reasoning
- Industrial Drafting Lab
- Kinematics and Theory of Machines
- Mechanical Measurement & Metrology
- Mechanics of Solids

Semester-4

- Fluid Mechanics & Machinery
- Fundamentals of Machine Design
- Manufacturing Processes - I
- Material Science and Metallurgy
- Mathematics-III
- Modelling & Analysis Lab
- Placement Activity - I

Semester-5

- Core Elective - I
- Dynamics of Machinery
- Heat Transfer
- Machine Design - I
- Manufacturing Processes - II
- Open Elective - I
- Placement Activity - II

Semester-6

- Applied Thermal Engineering
- Core Elective - II
- Core Elective - III
- Core Elective - IV
- Finite Element Analysis Lab
- Machine Design - II
- Open Elective - II
- Placement Activity - III

Semester-7

- Computer Aided Manufacturing
- Core Elective - V
- Core Elective - VI
- Minor Project / Industrial Internship
- Open Elective - III
- Operation Research
- Placement Activity - IV

Semester-8

- Industrial Internship
- Major Project

Electives







Design: Computer Aided Design, Design of Material Handling Equipments, Machine Tool Design, Optimization Methods in Engineering Design, Product Design and Development, etc.

Thermal: Computational Fluid Dynamics, Design of Heat Exchangers, I.C. Engine, Power Plant Engineering, Refrigeration and Air Conditioning, Renewable Energy Engineering, Turbomachines, etc.

Manufacturing: Advanced Manufacturing Processes, Computer Integrated Mfg, Nanotechnology and Surface Engineering, Production Technology, Rapid Prototyping, etc.

Automation & Robotics: Automation Sensorics, Industry 4.0, IOT & Applications, PLC & Microcontrollers, IIoT, Industrial Automation, Oil Hydraulics and Pneumatics, etc.

Placement @ Glance

		2018	2019	2020	2021*
 Registered	>	84	44	41	41
 Placed	>	80	44	41	39
 Placed Percentage	>	95.24%	100%	100%	95.12%
 Highest Package	>	2.40 LPA	1.80 LPA	2.60 LPA	4.50 LPA
 Average Package	>	1.28 LPA	1.48 LPA	1.73 LPA	1.68 LPA
 No. of Companies	>	47	25	26	43

*Placement of batch 2021 is still going on.

Top Recruiters @ DU



Scan QR Codes



Department of
Mechanical Engineering



Mechanical
Laboratories



Mechanical
Consultancy Cell



Career after
Mechanical Engineering



Campus
Video



योग: कर्मसु कौशलम्

Darshan UNIVERSITY

University Campus

📍 Rajkot-Morbi Highway, Rajkot – 363650 📞 9727747310

Counseling Centre

📍 401, Lotus Arcade, 8 - Royal Park, 150 Ft. Ring Road, **Rajkot**

📍 Galaxy Plaza, Nr. Umiya Circle, Opp. Bajaj Showroom, **Morbi**

📞 9879510743, 9712804466 🌐 www.darshan.ac.in