





industry-ready

Mechanical 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, from mobile phones and biomedical devices to aircraft and power plants.

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

B.Tech. in Mechanical Engineering @ Darshan University

- Highly Qualified, Well Experienced, Industry Linked and Dedicated Faculties.
- A strong theoretical foundation for crystal clear fundamentals.
- 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.

Skill Development Activities @ DU



















Syllabus

Semester-1

- Mathematics I
- Office Automation Tools
- · Basics of Electrical Engineering
- · Engineering Drawing
- Workshop
- · Environmental Studies

Semester-3

- Mechanical Measurement & Metrology
- Mechanics of Solids
- Engineering Thermodynamics
- Industrial Drafting Lab
- · Kinematics and Theory of Machines
- Indian Constitution

Semester-5

- Fluid Power Engineering
- Heat Transfer
- Machine Design I
- · Manufacturing Processes II
- Professional Elective I
- Open Elective I

Semester-7

- · Operation Research
- Smart Manufacturing
- Professional Elective IV
- Professional Elective V
- Minor Project
- Life Management Skills

Semester-2

- Mathematics II
- · Science for Mechanical Engineering
- Introduction to Python Programming
- Electronics Workshop
- · Elements of Mechanical Engineering
- Communicative English

Semester-4

- Advanced Engineering Mathematics
- Material Science and Metallurgy
- Fluid Mechanics
- Fundamentals of Machine Design
- Manufacturing Processes I
- Solid Modelling Lab

Semester-6

- · Applied Thermal Engineering
- Machine Design II
- · Dynamics of Machinery
- Finite Element Analysis Lab
- Professional Elective II
- · Professional Elective III
- Open Elective II
- · Career Orientation

Semester-8

• Internship / Major Project

Electives

Futuristic Technologies: ■ IOT & Applications, Extended Reality (AR/VR), Unmanned Aerial Vehicle (Drone), Industrial Automation & Robotics etc.

Design: Rapid Prototyping, Product Design & Development, Computer Aided Design etc

Thermal: Power Plant Engineering, Refrigeration & Air-Conditioning, Renewable Energy Engineering, Energy Efficiencies in Industrial Utilities, Turbomachines etc.

Manufacturing: Industrial Engineering & Management, Quality and Reliability Engineering, Production Technology, Entrepreneurship, Advanced Manufacturing Processes, Automobile Engineering etc.

📆 : Unique approach of the department to develop proficiency of students in futuristic and latest technologies

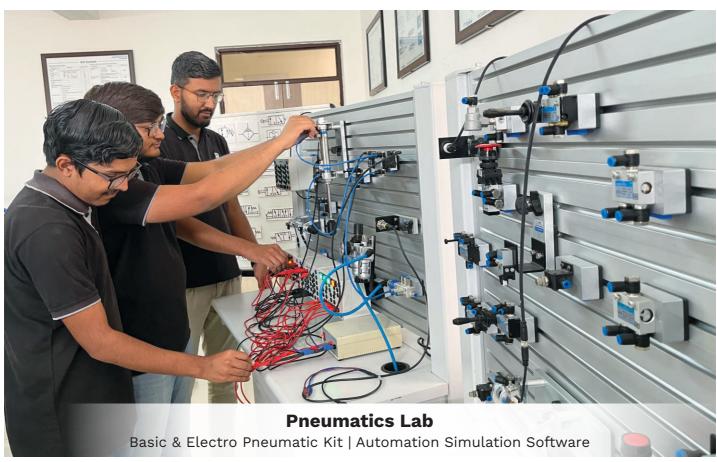
Cutting-Edge Laboratories





Cutting-Edge Laboratories





Lab Facilities

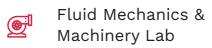




















Lab Facilities







Kinematics & Dynamics Lab



Material Science & Metrology Lab



Mechanical Workshop



Refrigeration & Air Conditioning Lab



Theory of Machine Lab







Dean



Dr. Jignasa P. Mehta

Dean & Head, Institute of Engineering & Technology
Ph.D. (Mechanical Engineering)

Experience: 28 Years

Phone : 9427495745, 9727747319 Email : mechanical@darshan.ac.in

Dr. Jignasa Mehta has completed her B.E. (Mechanical) from L.E. College, Morbi. She was awarded two Gold Medals one in B.E. – Mechanical and one in overall engineering branches at Saurashtra University. She has completed M.E. (Machine Design) from BVM, Vallabh Vidyanagar and Ph.D. (Mechanical Engineering) from Sardar Patel University, Vallabh Vidyanagar.

She has started her professional career with the ADICO group, Rajkot as an Engineer. Prior to joining the institute, she has worked at V.V.P - Rajkot for 24 years and also served as Head of the Mechanical Engineering Department for 12 years. She has published 18 papers in various reputed international Journals & Conferences, she is also a member of the editorial board and reviewer for various international journals.

At present, she is also working as an Independent Technical Director of Rolex Rings, Rajkot.

Key Faculties



Dr. Ashvin Makadia

- Ph.D., M.Tech. (CAD/CAM)
- 29 Years Experience
- ashvin.makadia@darshan.ac.in
- 9426429122
- CAD/CAM, Design



Bhavin Vegada

- Ph.D. (Pursuing), M.Tech. (Thermal)
- 12 Years Experience
- bhavin.vegada@darshan.ac.in
- 9825366601
- Heat Transfer, Fluid



Mukesh Vekaria

- Ph.D. (Pursuing), M.Tech. (Thermal)
- 16 Years Experience
- mukesh.vekaria@darshan.ac.in
- 9998986259
- Thermal, I.C. Engine



Vimal Limbasiya

- M.Tech. (CAD/CAM)
- 12 Years Experience
- vimal.limbasiya@darshan.ac.in
- 9879360219
- Machine Design, CAD/CAM/CAE



Paresh Bhuva

- M.E. (Machine Design)
- 13 Years Experience
- paresh.bhuva@darshan.ac.in
- 9879254198
- CAD, Design



Jinesh Tank

- M.E. (I.C. Engine & Automobile)
- 13 Years Experience
- jinesh.tank@darshan.ac.in
- 7567252009
- I.C. Engine, Automobile



Sagar Kanjiya

- M.E. (Thermal Engineering)
- 9 Years Experience
- sagarkumar.kanjiya@darshan.ac.in
- 9408040240
- Thermal, Fluid



Paras Vegada

- M.Tech. (Pursuing), B.E. (Mechanical)
- 13 Years Experience
- paras.vegada@darshan.ac.in
- 9724340710
- Manufacturing, Metrology



Ankur Tank

- B.E. (Mechanical)
- 12 Years Experience
- ankur.tank@darshan.ac.in
- 9712804466
- Automobile, CAD/CAM



Yash Tank

- M.Tech (Manufacturing Engineering)
- 4 Years Experience
- yash.tank@darshan.ac.in
- 9727673689
- Robotics, Additive Manufacturing

If a child can't learn the way we teach, may be we should teach the way they learn. - Ignacio Estrada



Mechanical Consultancy Cell (MCC)

At MCC, we understand the importance of innovating and customizing the existing products of our customers in the minimum possible time frame.

Our capabilities in providing solutions throughout the product development life cycle from conceptual design, industrial and mechanical engineering design, CAD modeling and detailing, simulation, analysis and prototyping makes MCC a unique one stop solutions provider for Engineering Services.

Services Offered

CAD & CAE CELL

- Product Development
- · Part Modeling
- Finite Element Analysis
- Optimization
- · Engineering Drafting
- Jig & Fixture Design
- Press Tool Die Design

RAPID PROTOTYPING CELL

- · Prototype Design
- · 3D Scanning
- 3D Printing

MANUFACTURING CELL

- Computerized
 CNC Programming
- · CNC Job work

CALIBRATION CELL

NABL Approved
Calibration Facilities of

- · Vernier Calipers
- Micrometers
- Dial Indicators
- Height Gauges
- Bevel Protectors

AR STUDIO

- Augmented Reality for
- Product Manufacturing
- Service & Maintenance
- Sales & Marketing
- Development of AR
 Experiences with
- Image Target
- Plane Target
- Model Target

Earn While You Learn

The Earn While You Learn program provides an unique opportunity to the students to showcase their talent and earn financial rewards in industrial projects carrying out by Mechanical Consultancy Cell.

MoUs



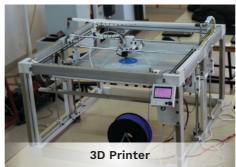
Projects @ Glance













Activities @ DU (Apart from Curriculum)













Our Students @ Reputed Companies

Him Poojara Batch 2010-14



Viraj Donga Batch 2011-15



Vasim Tank Batch 2011-15

JOHN DEERE



JOHN DEERE



Pallav Vakharia Batch 2011-15

Infosys



Jaydip Jarsaniya Batch 2012-16

Tech

Mahindra



Vishal Dholiya Batch 2011-15

HAFELE

Priyank Parmar

Batch 2009-13



Vivek Limbad Batch 2009-13



Karan Makwana Batch 2012-16



Kilburn Chemicals Ltd



Neel Jagani Batch 2009-13



LARSEN & TOUBRO

Meet Kapdi Batch 2016-20



Shyambal Ghadiya Batch 2011-15



(27) LARSEN & TOUBRO



Reliance



Dev Makwana Batch 2011-15

TOYL



Akash Hindocha Batch 2011-15



Savaniya Batch 2014-18

Divyesh



(C) Hitachi Energy



Bansal Ajudiya Batch 2012-16



LARSEN & TOUBRO

Ashish Amrutiya Batch 2010-14



Darshak Joshi Batch 2017-21



Mayur Ghevariya Batch 2010-14



Nikunj Delvadiya Batch 2011-15



Reliance

Brijesh Jethava Batch 2018-21



Reliance





Our Students @ Reputed Companies

Sanket Kalavadiya Batch 2011-15





SYNNOYN





Dhaval Maru Batch 2012-16



Nilay Raval Batch 2009-13



Kumarpal Belani Batch 2013-17



Solar

Jay Chavda Batch 2012-16



Vishal Paghadal Batch 2014-18

Umesh Parmar

Batch 2009-13

NOTI



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Vishal Katudiya

Batch 2011-15

Hardik Solanki Batch 2013-19

SHAKTMAN

Harshad

Sutariya

Batch 2009-13

Reliance



Titachi Energy

Batch 2014-18

JAIVEL

Ankit Mursaniya



Nilay Panchasara Batch 2016-20





Mayur Rajodiya Batch 2011-15



Manthan Kanjariya Batch 2018-21



Devendra

Batch 2012-16

Devaiya

NOV.



Milind Vagadia



Prakhar Upasani Batch 2015-19





Bhautesh Vara Batch 2017-20



Vestas.









Our Students @ Government Job

Gaurav Zalariya Batch 2009-13



Hitesh Patel Batch 2012-16



Divyaraj Zala Batch 2012-16



Kishan Saravaiya Batch 2013-17



Mayur Joshi

Batch 2013-17



Nirmal Patel

Batch 2013-17

Darshil Mehta Batch 2012-16



Mahendra Barad Batch 2013-17

Palash Ukani Batch 2010-14



Sabarmati Gas Ltd.

GNAL Shyam Pisavadia Ravi Kathad



Devendra Jadeja Batch 2010-14



Batch 2012-16



Batch 2013-17



Harnish Vyas

Batch 2018-21





Bambhaniya Jaydip Batch 2012-16



Disha Gondiya

Batch 2010-14

Mayur Kasundra Batch 2009-13





Kishan Kanani Batch 2010-14



Usman Kherani Batch 2010-14







Purvaraj Jadeja Batch 2009-13



Akshay Barad Batch 2012-16



Hiren Ranwa Batch 2015-19







Our Student Entrepreneures

Sojitra Kaushik Batch 2013-17



Ponkiya Madhur Batch 2009-13



Baravaliya Nirav Batch 2013-17





Jenisha Automation

JENIJHA

Vaghela Jigar Batch 2010-14



Batch 2011-15

(UIC) UNI-TECH CASTING LLP Uni-Tech Casting LLP

Dudhatra Hem



Sanghani Sanket

Batch 2011-15



Dhorajiya **Sandip** Batch 2009-13



Chaniyara Gunjan Batch 2013-17



Navapariya Vaibhav Batch 2014-18



Satyam Techno



Kyada Tanmay Batch 2013-17



Nonghanvadra Jenish Batch 2012-16



SD Fitness Equipment

Kachhela Rakesh Batch 2012-16

Solution Pramukh Solutions



CAD-SOL DESIGN SOLUTION CAD-SOL Design Solution

JAY MANGAL ENGINEERING
All Type of CNC Machining Works Jay Mangal Engineering



Detailing Devils



Ranpariya Uttam Batch 2012-16



Rabadiya Devid Batch 2011-15





Jani Maulik Batch 2009-13



SF SILVER FOILS

Silver Foils Pvt. Ltd.

Bhensdadia Milan Batch 2014-18



Usdad Ankit Batch 2013-17

COGNOVA

Thakar Priyank

Batch 2011-15



Hapaliya Brijesh Batch 2014-18



PhilTECH SOLUTIONS Phi Tech Solutions



Hansaliya Rishit Batch 2011-15



Karma Equipments Services





Placement @ Glance

			2020	2021	2022	2023
ii fi ii	Registered	>	41	41	30	24
Ø	Placed	>	41	41	30	24
%	Placed Percentage	>	100%	100%	100%	100%
	No. of Companies	>	26	43	22	24

Top Recruiters @ DU









































































Scan QR Codes



Department of Mechanical Engineering



Mechanical Laboratories



Mechanical Consultancy Cell



Career after Mechanical Engineering



Campus Video



University Campus

- Rajkot-Morbi Highway, Rajkot − 363650.
- \$ 9727747310 / 11
- www.darshan.ac.in

Counseling Centre

- 401, Lotus Arcade, 8 Royal Park, Between KKV Circle & Indira Circle 150 Ft. Ring Road, Rajkot - 360005.
- **9712804466**, 9408040240