

DEPARTMENT OF MECHANICAL ENGINEERING

(NBA Accredited UG Program)



ACADEMIC EXCELLENCE



College of Technology and Engineering

Maharana Pratap University of Agriculture and Technology

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About CTAE

The College of Technology and Engineering, Udaipur (CTAE) is a constituent college of Maharana Pratap University of Agriculture and Technology, Udaipur. The college was started in 1964 with a Graduate Programme in Agricultural Engineering. Presently the college has undergraduate degree programmes in 7 branches, M.Tech. programme in 10 disciplines and PhD programme in 10 disciplines with about 1700 students enrolled. It is situated at about 8 km from Udaipur City railway station and bus terminal and 3 km from Rana Pratap Nagar Railway Station.

The college has a rich infrastructure with well-equipped laboratories in each department having modern state-of-art instruments/equipment to provide the hands-on training to the students.

About Department

The department of mechanical engineering, spreaded in more than 2.86 acre and having 3500 sqm build-up area, was established in year 1957, offering diploma in mechanical engineering. Undergraduate program in Mechanical Engineering was started in 1996 discontinuing the diploma program. PG program was introduced in year 2004 with specialisation in CAD/CAM. The department is well equipped with state of art equipment in all laboratories and sufficient machine tools for individual training. All class rooms are fitted with smart-boards.

Vision

To provide mechanical engineers of highest caliber who would engage in research, design and development to help building the nation towards self reliance in her technological need and to become a centre of excellence in education, research and technological service to the nation for its need in design and manufacturing independence.

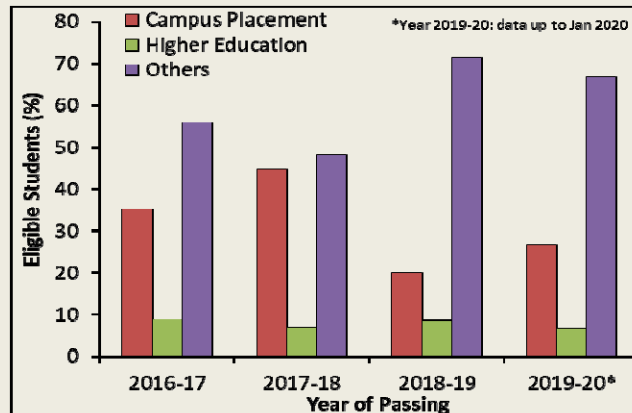
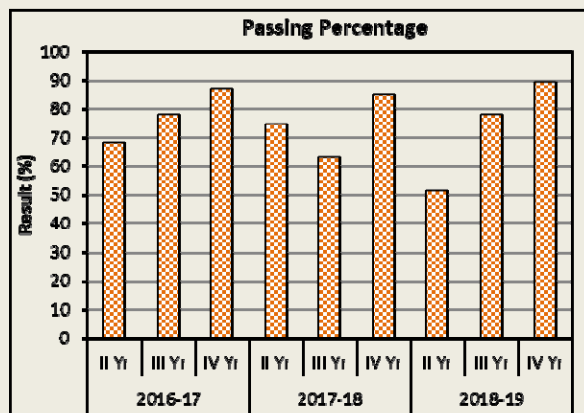
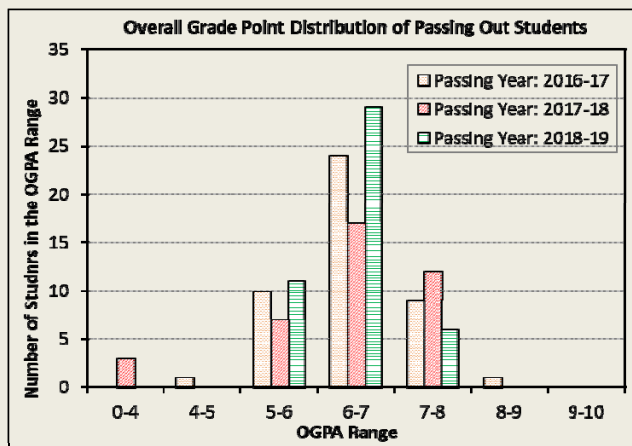
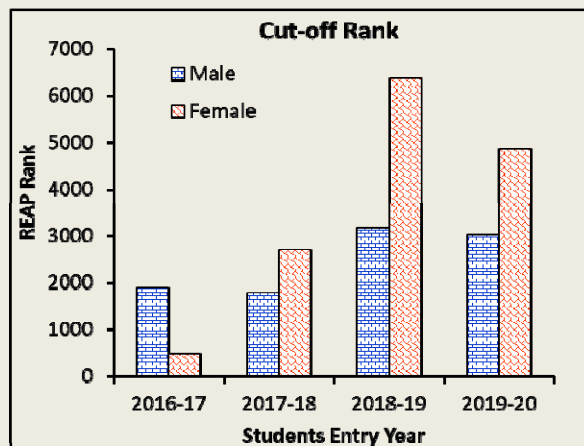
Mission

- To promote academic growth in the discipline of mechanical engineering by offering state-of-the-art undergraduate, postgraduate and doctoral programs.
- To arm the graduates with latest technologies and knowledge of applying them for finding technically feasible and economically viable solutions of the problems of manufacturing sector and to make them globally competitive.
- To create an ambience of academic excellence in which new ideas, research and entrepreneurship flourish and from which the leaders and innovators of tomorrow emerge.

Admissions and Programme Outcomes

Sanctioned Intake/Admission cut-off/Passing & Grades/Placement

B.Tech. (Mech.)	M.Tech. (CAD/CAM)	Ph.D. (Mech.)
40	8	4



Faculty Strength

Faculty position & Publications

Faculty position	13
Total research paper publications	185
Number of faculties with <i>h-index</i> greater than Five	4

Research & Development Activity

Number of R&D Projects completed	14 Nos. (worth Rs. 106.2 lac)
Number of R&D Projects on going	02 Nos. (worth Rs. 55.1 lac)
Project funding agencies	DST / PCRA / AICTE / MNES
Technologies Developed	04 Nos.

Patents/Design

Number of patents filed = 02; Design patent filed = 01



STUDENT ACTIVITIES



Multifunction Hammer Kit

Many Functions. One Hammer

Funded by - NewGen IEDC

INVENTORS
 Hardik Longakshi
 Pulkit Thakuriya
 Dr. B. L. Salvi



Special Courses Taught & Skills Imparted

- Advance Machining Methods: Electric Discharge Machining (Die sinking)
- Industrial Inspection and Quality Control: Surface roughness & gauging
- Computer Aided Manufacturing: NC Programming and robotics
- Finite Element Methods for Design, Analysis and Optimization
- Mechanical Vibrations & Condition Monitoring: use of VibExpert
- CAD & Simulation Software: AutoCAD, SolidWorks, ANSYS, Abaqus, Scilab
- Instrumentation & Control: Selection, Testing and Calibration methods for sensors
- Internal Combustion Engines and Alternative fuels with computerised test rigs
- Non-conventional Energy Sources: Solar, Wind, biomass conversion technologies
- Students' engagement in Practical & Project work: **44 %** of total contact hours



Students Development

- Live projects and training at Industrial partner's premises
- Sponsorship for participation of students in various workshops / Seminars / Conferences at IITs, NITs and other National Level Organisations
- Personality development, Employability Skill Training classes, Group discussion sessions, Seminar presentations- Trainings imparted by Professional trainers
- Organization of various events by students. Including Technical events, college festival, games, music, etc.
- GATE Coaching to all final year students by Professionals
- Student chapter- IIIE : Organisation of Lectures and industrial interactions
- Financial support to Innovative students from NewGen IEDC for prototype development and starting own Start-up

Campus Placements & Alumni Strength

Our Recruiters

- Vedanta Pvt. Ltd.
- Jindal Steels Pvt. Ltd
- Cairn Energy
- IMI Precision Engg.
- Trade India Research
- Denso Haryana Pvt. Ltd.
- National Engineering Industry
- Hindustan Zinc Ltd.
- International Tractors Ltd
- Alive Solar
- BBB Manpower / NIF
- Arti Industry
- Uttam Galva Steel Ltd
- Pinnacle Infotech Solutions Ltd.
- Inani Marbles

Alumni Positions In Companies

- Bosch Ltd
- Ultratech- / Vikram- / Shree- / Binani- / Wonder- Cement
- Honda Cars India Limited
- Rajasthan Roadways
- Indian Railways
- ONGC / Cairn Energy / Adani Power
- Larsen & Toubro
- Vedanta Pvt. Ltd.
- Jindal Steels Pvt. Ltd.
- Trade India Research
- Denso Haryana Pvt. Ltd.
- National Engineering Industry
- Hindustan Zinc Ltd.
- International Tractors Ltd
- Alive Solar / IMI Precision Engg.
- Rajasthan Forest Services

Mile Stones (final year pass out students)

Mile Stones	2016-17	2017-18	2018-19	2019-20*
Placements	35.3 %	44.8 %	20 %	26.7 %
Higher Education	8.8 %	6.9 %	8.6 %	6.7 %
Others (preparing for PSUs, etc.)	55.9 %	48.3 %	71.4 %	66.7 %

Honouring the meritorious students

- Gold medal to meritorious students (UG and PG): 02
- Dr. K.K. Chhabra and Rajiv Chhabra Educational Scholarships for LEEP admitted students: Rs. 8000/- (One each in II/III/IV Year)
- Vedanta Yashad Scholarship by HZL (topper of 3rd year): Rs. 50,000/-