

[Home \(index.php\)](#) / [Facilities](#)

Facilities

[\(singlePage.php?id=17&type=SP\)](#)

Laboratories

Along with theoretical knowledge, a sound practical knowledge is essential and it calls for well developed laboratories and practical courses. The department has all the basic, and many advanced laboratories with modern equipment and machinery to enable it to remain in the forefront of technology. The following laboratories are there in the department:

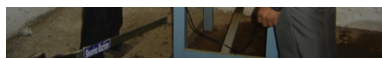
Select Language ▼

Powered by [Google Translate \(https://translate.google.com\)](https://translate.google.com)

LABS OF DEPARTMENT

1. HEAT ENGINES LAB	IC engine test rigs-Petrol, Diesel, VCR Engine. Computerised test rigs, Emission monitoring apparatus, fuel property apparatus, models
2. STEAM LAB	Oil-fired Boiler, Steam Engine, Boiler Models, Mountings and Accessories Models
3. HEAT TRANSFER LAB	Experimental setups for conduction, convection, radiation, heat exchangers
4. REF. & A.C. LAB	Test rigs for Vapour compression ref. & Air-conditioning tutor, Heat Pump
5. FLUID LAB	Flow experimental Setups. Turbine test rigs- Kaplan, Francis, Pelton Wheel, Hydram, pump test rigs
6. METROLOGY LAB	Ultrasonic flaw detector, U/S thickness gauge, hardness tester, profile projector, Micrometers
7. CAD LAB	15- i5, 15 Core-2 Duo, 3 HP Workstations, Computers, CNC Trainer, Softwares- AutoCAD, Ansys, Pro/E, CATIA, SOLIDWORKS, Abaqus, HyperWorks.
8. CAM LAB	CNC Vertical Milling Machine- Model VMC400; CNC Turning Machine Model FLEXTURN, Pneumatic and Hydraulic system trainer
9. DYNAMICS LAB	FFT Analyser, Vibration Condition monitoring equipment, Gyroscope, governor, balancing, whirling apparatuses
10. INDUSTRIAL ENGG. LAB	Performance Rating, PIN board, Assembly process chart
11. INSTRUMENTATION LAB	Tutors for various transducers, Pressure gauge calibration, NI Data acquisition system





The Department also has well established workshops with the following shops:

SHOPS OF DEPARTMENT	
1. MACHINE SHOP	Machine shop has 15 Lathes, 4 Shapers, 2 Milling, turret and capstan lathes, planer, Metal band saw, Power Hack saw, Slotter, Radial drill, grinder
2. FITTING SHOP	Radial Drilling, Bench Drilling, Bench vices
3. FOUNDRY SHOP	Oil fired furnace, Cupola, Sand Muller, Mould box shaker, Moulding sand testing apparatus
4. WELDING SHOP	MIG welding machine, Arc welding, Gas welding
5. CARPENTRY SHOP	Work bench vices, tools
6. PATTERN SHOP	Work bench vices, tools
7. SMITHY SHOP	Open herth furnaces, Power hammer, Anvils
8. SHEET METAL SHOP	Sheet bending press, Screw press
9. PLUMBING SHOP	Die stock and sets, tools, vices

Department library

The department library is intended for reference needs of students and faculty. There are about 250 titles in the department library besides a number of project and other reports. The library is open throughout the working hours.

Internet facilities

All the faculty members have internet connectivity. The department CAD lab has sufficient number of PCs reserved for internet use by the students, available during working hours. Besides this, the internet facility is available in Computer Centre and Hostels also which is available all the time.



Quick Links

- [Home \(index.php\)](#)
- [Sitemap \(singlePage.php?id=17&type=SP\)](#)
- [National Institute Ranking Framework : CTAE Reports \(singlePage.php?id=31&type=SP\)](#)
- [TEQIP-III \(singlePage.php?id=34&type=SP\)](#)
- [Bhartiya Chatra Sansad \(singlePage.php?id=44&type=SP\)](#)
- [Prayaag 2013 \(CTAE TechFest\) \(singlePage.php?id=15&type=SP\)](#)
- [C-GOLD-2014-Activities \(singlePage.php?id=17&type=SP\)](#)
- [Gold Fiesta-2014 \(CTAE TechFest\) \(singlePage.php?id=19&type=SP\)](#)
- [Promoting Innovations in Individuals, Start-ups and MSMEs \(singlePage.php?id=21&type=SP\)](#)
- [IUMS \(singlePage.php?id=22&type=SP\)](#)
- [STUDENT PORTAL LOGIN \(singlePage.php?id=23&type=SP\)](#)
- [Tech View 2019 \(singlePage.php?id=24&type=SP\)](#)
- [CTAE TECHFEST-2015 \(singlePage.php?id=26&type=SP\)](#)
- [Students No Dues Form \(singlePage.php?id=28&type=SP\)](#)
- [GLOBAL RAJASTHAN AGRITECH MEET \(GRAM-2016\) \(singlePage.php?id=29&type=SP\)](#)
- [Vidya Lakshmi Portal - VLP \(singlePage.php?id=32&type=SP\)](#)
- ["ARIIA 2020 Submission Report" \(images/staticContent/Submission Report 2020.pdf\)](#)
- [Package of Practices, Publication & Patent Facilitation Cell \(singlePage.php?id=46&type=SP\)](#)
- [STATE LEVEL SPORTS CHAMPIONSHIP KARMATH-2020 \(singlePage.php?id=49&type=SP\)](#)
- [C.T.A.E. STUDENT FEED BACK SYSTEM \(B.Tech. Program\) \(singlePage.php?id=58&type=SP\)](#)
- [NewGen IEDC-CTAE \(singlePage.php?id=59&type=SP\)](#)
- [ARIIA 2021 CTAE REPORT \(images/staticContent/ARI-I-1067.pdf\)](#)
- [MPUAT Staff Directory \(images/staticContent/Telephone-Directory-MPUAT-\(2022\).pdf\)](#)
- [Farm Machinery Testing Centre \(singlePage.php?id=72&type=SP\)](#)

Udaipur, IN

24°

7:42 pm IST

Cloudy

(<https://www.accuweather.com/en/in/udaipur/190217/weather-forecast/1902172>)

Contact Us

College of Technology

and Engineering,

Udaipur(Rajasthan) 313001

Tel.No. +91 294 2470837 (o)

Fax No. +91 294 2471056

Email: deanctae@mpuat.ac.in

(<mailto:deanctae@mpuat.ac.in>)

ctaedeans@gmail.com (<mailto:ctaedeans@gmail.com>)

Web: www.ctae.ac.in (<http://www.ctae.ac.in>)

=link_current&utm_content=accuweather&utm_campaign=current)

Powered by [Google Translate](#) (<https://translate.google.com>)

Visitors: 0003502

Last Updated: 02-09-2024

All right reserved © 2024 College of Technology and Engineering.