

Department of Mechanical Engineering (Technical College)

Brief Profile & Progress Report
(2012-2017)



Presentation Outline



- Department profile
- Programmes offered
- Infrastructure and Learning Resources
- Teaching/Learning
- Student Achievements
- Funding
- Research highlights

Department Profile



- It is the founding department of the Technical College.
- The department has an intake capacity of 60 students per year.
- Introduced various Modular Certificate Programmes namely Welder, Turner and Fitter in order to cater industrial skilled manpower demand.



Break-up of Faculty, Staff & Students



- **Faculty**

- **02 Ph.Ds. (9.5%)**
- **Pursuing Ph.Ds – 02**

- **Teaching Staff : 13**
- **Non-Teaching Staff : 8**
- **No. of Students : 250**
- **Teacher-Student Ratio : 1:19**

Designation	No.
Senior Lecturer	1
Workshop Superintendent	1
Lecturer	4
Assistant Lecturer	8
Instructor	7
Total	21

Gender	No.
Women	NIL
Men	21
Total	21

Student Enrolment & Profile



S.No.	Courses	Number of Students		
		Boys	Girls	Total
1.	Diploma In Engineering	180	NA	180
2.	Modular Course in Fitter	30	NA	30
3.	Modular Course in Welder	20	NA	20
4.	Modular Course in Turner	20	NA	20
	Total	250	NA	250

Teacher-Student Ratio: 1:19 Reservation: As per UGC

Programmes offered



1. Diploma In Mechanical Engineering - (3years Course)
2. Modular Course in Welder – (4 Modules of 3 months each)
3. Modular Course in Fitter – (4 Modules of 3 months each)
4. Modular Course in Turner – (4 Modules of 3 months each)

Chronological Progression



Infrastructure and Learning Resources



Existing Facilities

- Various state of the art Laboratories and Workshops facilities are available to give thorough practical knowledge to the students.
- Various Work shops & labs are:
 - Fitting shop
 - Machine Shop
 - Carpentry Shop
 - Welding & Heat Treatment Shop
 - Smithy Shop
 - Moulding Shop
 - Mechanics and Material science Lab
 - Heat Engine Lab

Infrastructure and Learning Resources



New Facilities/Labs./Equipment Added

- ***Modernization of Mechanics Lab***

The following Facilities were Installed in Mechanics Lab

- CNC Lathe Trainer
- Universal Testing Machine
- Izod Impact Testing Machine
- Rockwell Hardness Tester

- ***Computer Lab***

80 Computers of High configuration were installed to setup CAD lab.

Lab Equipment

New Facilities/Labs./Major Equipment added



Major Equipments (costing > Rs 1 lakh): 17

Teaching-Learning-Evaluation



Placements

- **Following are the companies which visit for campus placements.**

Name of the Company	Name of the Company	Name of the Company
Hero Motors	Continental Tires	TATA Telocn
Honda Motor Cycles	Maruti Suzuki	HCL
Honda Cars	TVS Motors	Motherson
TATA Motors	AFCONS	Schlumberger
TATA Projects	Timex	SRF
Flour India	Yamaha	Airflow
Volvo Eicher	Escorts	Bluestar

Student Achievements



Placements

- On average 63 % of students were placed in last Five years

Academic Session	% Placement
2016-17	54 %
2015-16	72 %
2014-15	46 %
2013-14	80 %
2012-13	65 %

- On average 17% of students opt for Higher education

AICTE MODROB Funding



Various MODROB projects are taken from AICTE to improve Existing Labs.

- 2002 -04 - MODROB of Workshops. 6.25 Lakhs
- 2006-08 - MODROB of Heat engine Lab. 13 Lakhs
- 2012-14 - MODROB of Mechanics lab. 18 Lakhs

Research Publications



- Journals: 13
- Intl./Natl. Conf. Proc: 12
- Books/Book Chapters: 02

Publications in:

International Journal of Logistics
International Journal of Advanced
Manufacturing Techniques
International Journal of (Emerald)
Springer
International Journal Artificial
intelligence and expert system
International Journal of Computer
Applications
International Journal of Production
Research
International Journal of Production
Economics (Elsevier)

Future roadmap : Vision 2031



- Modernization of Welding Workshops as per Industrial Need
- Establishment of Industrial Automation Lab
- Introducing Advanced Designing Software Courses
- Expansion of Existing CAD Lab.
- Establishment of Industrial Painting Workshop
- Collaborations with Industries



Thank you