

Mech at a Glance

(E-NEWS LETTER)

HALF YEARLY MAGAZINE

JULY-DEC-2024

MECHANICAL ENGINEERING DEPARTMENT
GOVERNMENT ENGINEERING COLLEGE PALANPUR



Government of Gujarat

GOVERNMENT ENGINEERING COLLEGE PALANPUR

JAGANA, PALANPUR-AHMEDBAD HIGHWAY, PALANPUR - 385011, GUJARAT, INDIA

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Editorial Board

Prof. B. D. Prajapati

Student Coordinator

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Contact us

Mechanical Engineering Department
Government Engineering College, Palanpur
Jagana, Palanpur-Ahmedabad highway,
Palanpur – 385011,
Gujarat, India

Vision and Mission of Institute

VISION

“To be a leading technical institute facilitating transformation of human resources into socially responsible engineering professionals for sustainable development”

MISSION

- (1) To achieve academic excellence by developing state-of-the-art laboratories and academic infrastructure.
- (2) To create an ecosystem that promote value based technical education, innovation and entrepreneurship for sustainable development.
- (3) To contribute to industry and society by providing technical and consultancy services.
- (4) To enhance technical competencies of human resources by providing need base trainings and quality improvement programs.

Vision and Mission of Department

VISION

"To produce competent mechanical engineers to fulfil needs of society for sustainable development"

MISSION

- (1) To impart quality technical education in Mechanical Engineering with professional skills.
- (2) To develop linkages with industry for exposure about real life problems and its feasible solution.
- (3) To promote lifelong learning, Innovation and entrepreneurship for sustainable development.
- (4) To assimilate social, cultural and ethical values for betterment of society.

From the Desk of Head of the Department

Mechanical Engineering is the mother of all branches of engineering. Contributions by this branch are enormous in the growth of technology over the centuries. I think it can be best summed up with a slogan from our professional body, the Institution of Mechanical Engineers – ‘Nothing moves without Mechanical Engineers’. Whether it is an aircraft, car, train or satellite, mechanical engineers play an important role.

Government engineering college Palanpur (GECPL) is really delighted to express that the mechanical department stands on the strength of experienced and well qualified faculty with excellent laboratory facilities, modern computer clusters and systematically designed curriculum and dedicated faculty members make this department a dynamic place to study. Graduates from the Department of Mechanical Engineering are highly-employable and sought after by many prestigious companies.

Recently department have been accredited by National Board of accreditation, New Delhi (NBA) for the year 2022-2025. An accredited degree means that graduates are deemed to have met part or all of the academic requirements and are in a strong position to move on to achieve professional engineering status after a period of initial professional development in industry.

The Department aims to creating and shaping the new generation of mechanical engineers through their innovative teaching methods and practical knowledge. Department also care for students with an effective mentoring system to counsel them regularly. We are confident; our students will always make us proud from their performances wherever they are.

Dr. D. M. Patel
Head of Department Mechanical

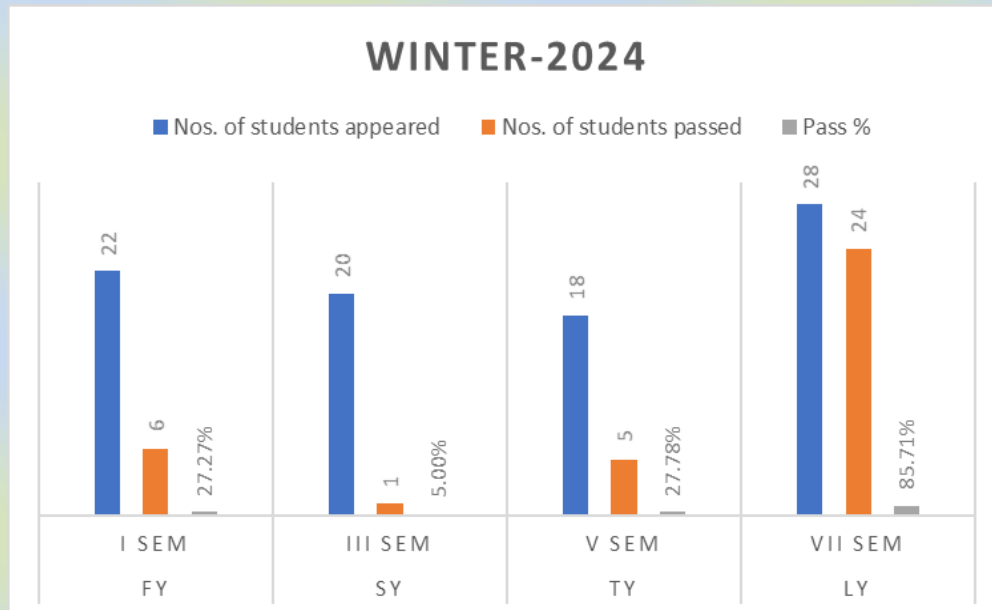


Faculties of Department

Sr. No.	Name of Faculty	Designation	Area of Work	Teaching Experience (Years)
1.	Dr. D. M. Patel	Professor	Laser processing of materials Micro manufacturing	23
2.	Prof. A. B Patel	Assistant Professor	Thermal Engineering	21
3.	Prof. V. D. Patel	Assistant Professor	Thermal Science	21
4.	Prof. S. K. Dabhi	Assistant Professor	Solar Energy, IC Engine, Auto.	15
5.	Prof. A. D. Patel	Assistant Professor	Machine Design	19
6.	Dr. A. R. Chaudhari	Assistant Professor	Machine Design	15
7.	Prof. P. N. Boka	Assistant Professor	Design Engineering	17
8.	Dr. A. K. Patel	Assistant Professor	Advance Manufacturing Techniques	15
9.	Prof. G. S. Patel	Assistant Professor	Manufacturing Engineering	18
10.	Prof. K. P. Modi	Assistant Professor	Thermal Engineering	13
11.	Prof. K. S. Banker	Assistant Professor	Non-Conventional, Composite Materials	20
12.	Prof. P. K. Gajjar	Assistant Professor	Welding Metallurgy, Advanced Manufacturing Processes	13
13.	Prof. B. D. Prajapati	Assistant Professor	Manufacturing Engineering	20

Result Analysis

Winter - 2024		Nos. of students appeared	Nos. of students passed	Pass %
FY	I Sem	22	6	27.27%
SY	III Sem	20	1	5.00%
TY	V Sem	18	5	27.78%
LY	VII Sem	28	24	85.71%



Topper of Winter 2024 GTU Exam

1st Semester

Sr. No.	Enrollment No	Name	SPI
1	240610119018	RUDRADUTT D PADHYA	8.32
2	240610119019	TIWARI RAJ RAKESH	7.11
3	240610119016	RAVIKUMAR	6.74

3rd Semester

Sr. No.	Enrollment No	Name	SPI
1	240613119005	PATEL SUMITKUMAR JASHVANTBHAI	7.04

5th Semester

Sr. No.	Enrollment No	Name	SPI
1	220610119005	SOLANKI DEVANG BABUBHAI	7.83
2	230613119004	MEVADA CHIRAGKUMAR DILIPKUMAR	7.00
3	220610119006	PARMAR ROHITKUMAR PARAGBHAI	6.87

7th Semester

Sr. No.	Enrollment No	Name	SPI
1	210610119006	PRAJAPATI MEET	8.46
2	220613119012	PRAJAPATI UDAY HARSHADBHAI	8.13
3	210610119012	KORI MAYANKKUMAR SANTOSH	8.04

Faculty/staff training/seminar/conferences attended

Sr. No	Name of Faculty	Training	Name of Institute/ Organizer	Duration	
				From	To
1	Prof. A.R.Chaudhary	Industrial Training at Vasant Fabricators Pvt Ltd, Chhapi, Palanpur	CTE	24-06-2024	06-07-2024
2	Prof. A.D.Patel	Industrial Training - Vasant Fabricators Private Limited	Industrial	24-06-2024	06-07-2024
3	Prof. P.N.Boka	Industrial Training - Vasant Fabricators Private Limited	Industrial	24-06-2024	06-07-2024
4	Prof. V.D.Patel	Industrial Training - Vasant Fabricators Private Limited	Industrial	24-06-2024	06-07-2024
5	Prof. B.D.Prajapati	Industrial Training at Gokul Agro Pvt Ltd.	CTE	24-06-2024	07-07-2024

Sr. No	Name of Faculty	Training	Name of Institute/ Organizer	Duration	
				From	To
6	Prof. A.B.Patel	Industrial Training at Inner Engineering Product And System Pvt Ltdinner Engineering Product And System Pvt Ltd, Ahmedabad	OTHER	01-07-2024	12-07-2024
7	Prof. S.K.Dabhi	Industrial Training at Inner Engineering Product And System Pvt Ltdinner Engineering Product And System Pvt Ltd, Ahmedabad	Industrial	01-07-2024	12-07-2024
8	Prof. K.P.Modi	Industrial Training - Vasant Fabricators Private Limited	CTE	08-07-2024	22-07-2024
9	Prof. K. S. Banker	Industrial Training - Vasant Fabricators Private Limited	OTHER	08-07-2024	22-07-2024
10	Prof. A.B.Patel	Industrial Training at Topline Switchgear Pvt Ltd	Industrial	15-07-2024	27-07-2024
11	Prof. A. R. Chaudhary	Industrial Training at Banas Dairy Palanpur	CTE	15-07-2024	27-07-2024
12	Prof. A.D.Patel	Industrial Training at Banas Dairy Palanpur	Industrial	15-07-2024	27-07-2024
13	Prof. P.N.Boka	Industrial Training at Banas Dairy Palanpur	Industrial	15-07-2024	27-07-2024
14	Prof. V.D.Patel	Industrial Training at Banas Dairy Palanpur	Industrial	15-07-2024	27-07-2024
15	Prof. S.K.Dabhi	Industrial Training at Topline Switchgear Pvt Ltd	Industrial	15-07-2024	27-07-2024
16	Prof. P.K.Gajjar	Industrial Training at Gujarat Apollo Industries Ltd.	CTE	15-07-2024	29-07-2024
17	Prof. P.K.Gajjar	Innovation Ambassador Training "Foundation	OTHER	01-08-2024	15-10-2024

Sr. No	Name of Faculty	Training	Name of Institute/ Organizer	Duration	
				From	To
		Level"			
18	Prof. K.S.Banker	Advances In Materials & Manufacturing	ATAL	23-09-2024	28-09-2024
19	Prof. P.K.Gajjar	Positive Attitude for Professional Excellence	KCG	19-10-2024	19-10-2024
20	Prof. K.S.Banker	One Day Training Program on Purchase Procedure Through Gem	CTE Gandhinagar	18-11-2024	18-11-2024

Research Publications

International Conference publications:

Name of staff	Title of paper	Name of journal	Month & Year of publication	Volume & Issue No. ISSN/ISSP No.
Dr. K. B. Judal	Effect of process parameters on free-form magnetic abrasive finishing of bearing material	AIP Conference Proceedings; Volume 3108, Issue 1; DOI: https://doi.org/10.1063/5.0207058	Jul-24	1551-7616
Prof. S.K.Dabhi	Optimizing Indirect Liquid Journal of Electrical System; Cooling System for Thermal Management of Electric Vehicle Battery: A CFD Study Using Cold Plate	Journal of Electrical System; Vol. 20 No. 10 (2024); DOI https://doi.org/10.52783/jes.5230	Jul-24	1112-5209

Dr. V. D. Patel; Dr. K. B. Judal	Effect of channel depth ratio and absorber plate configuration on performance of a solar air heater	Case Studies in Thermal Engineering, Volume 61, September 2024, 104789, https://doi.org/10.1016/j.csite.2024.104789	Jul-24	1748-1317
Prof.S.K. Dabhi	Application of solar thermal collectors for milk pasteurization to explore the potential of renewable energy in the dairy sector: Challenges and possibilities	Applied Chemical Engineering; Vol. 7 No. 3 (2024); DOI: https://doi.org/10.59429/ace.v7i3.5501	August-24	2578-2010
Dr. K. B. Judal	Analytical approximation and evaluation of roll separating force in bar rolling process	The International Journal of Advanced Manufacturing Technology; Volume 134, pages 4923–4937, (2024); DOI: https://doi.org/10.1007/s00170-024-14330-z	October-24	1433-3015

Department Activities / Achievements

- Prof. P. N. Boka achieved doctorate degree on title of “Investigation and Performance Analysis of a Solar Desalination System with Application Coating” dated on 05th October, 2024 from Gujarat Technological University

Department Activities / Achievements

Sr. No.	Internship [Name of Company]	Name of Guide
1.	I-Flp Explosion Proof Pvt. Ltd.	All Faculty
2.	Arihant Pump Pvt. Ltd. (Aroma)	
3.	Atlas Industries	
4.	Cadd Centre Training Services Private Limited	
5.	Coach International Technique Private Limited	
6.	Energy Machines Pvt Ltd	
7.	Energy Machines Pvt.Ltd	
8.	Leak Proof Pumps (I) Pvt. Ltd.	
9.	Maruti Suzuki Kiran Motors Ltd	
10.	Mearaj Steel	
11.	National Gear And Swastik Industry	
12.	Ratnadeep Metal Tube Ltd	
13.	Shivam Sales Corporation	

Department Activities

Industrial Visit

Sr. No.	Name of Industry	Date of Visit	Semester
1	Adani Port, Adani Wilmar, Adani Solar, and Adani Power Plant	04-05/10/2024	7 th Sem.



Group Photo at Adani Port

Student Placement

Sr. No.	Full Name	Company Name	Designation
1	Pathan Sohilkhan Jahangirkhan	Ganesh Engineering Co.	Mechanical Design Engineer
2	Patel Tirth Jayeshkumar	Gujarat Multi Gas Base Chemicals Ltd.	Graduate Engineer Trainee
3	Dipanshu Mewada	Baxter Pharmaceuticals India Private Limited	Apprenticeship Trainee
4	Prajapati Vishalkumar Jayantibhai	Zyodus Lifesciences	Trainee Officer
5	Arvind Kumar Yadav	Clair Engineers Pvt. Ltd.	Site Engineer
6	Raj Prajapati	IRM Offshore And Marine Engineers Pvt. Ltd.	Jr. Design & Development Engineer
7	Thakkar Arpankumar Sureshbhai	Parboiler Pvt. Ltd.	Graduate Engineer Trainee
8	Bhuriya Jigar Rajubhai	A V Steel Forging Pvt. Ltd.	Jr. Engineer
9	Panchal Abhi Nileshkumar	Ammann India Private Limited	Apprenticeship Trainee
10	Suthar Hitesh Karshanbhai	Power Build Pvt. Ltd.	Graduate Engineer Trainee
11	Patanwadiya Maulikkumar Satishbhai	Jyoti CNC Automation Ltd.	Graduate Engineer Trainee
12	Prajapati Bhargavkumar Sureshbhai	Power Build Pvt. Ltd.	Graduate Engineer Trainee
13	Tirth Sureshkumar Rana	Hindustan Gold Industries Pvt. Ltd.	Graduate Engineer Trainee
14	Patel Jitkumar Vishnubhai	V Tech Nxtgen Cars Private Limited	Sales Consultant
15	Mudaliar Rahul Nagalingam	Sahjanand Engg. Pvt. Ltd. Mumbai	Design Engineer
16	Akshaykumar N Patil	Atul Greentech Pvt Ltd	Graduate Engineer Trainee –R&D
17	Hemrajsingh Rathod	Tata Motors Passenger Vehicles	Apprenticeship Trainee
18	Devang Patani	Gtc Oilfield Services Limited	PMS Executive
19	Patel Manan Dashrathbhai	Gulshan Polyols Ltd.	Engineer
20	Ritik Brijkishor Vishwakarma	Techno Mech Engineering	Quality Control Engineer
21	Vraj Vinodbhai Prajapati	Ratnamani Techno Casts Pvt Ltd	Trainee

22	Shubham Yadav	Uges Powermax Pvt Ltd	Design Engineer
23	Gaurav Saini	Thummar Engineers (Dahej)	Engineer
24	Selia Asfak	Amar Equipment Pvt. Ltd.	Design Engineer

Details of Students' Higher studies

Sr. No.	Enrollment No	Name of Student	Name of Institute
1	200610119004	Ketan Maheshkumar Panchal	L.D.College of Engineering, Ahmedabad
2	200610119013	Darji Mandip Ganapatbhai	L.D.College of Engineering, Ahmedabad
3	210610119525	Marvaniya Shaunak Kalidas	L.D.College of Engineering, Ahmedabad
4	210610119506	Nafees	Tata Indian Institute of Skills, Ahmedabad
5	200610119008	Marm Nayak	Brandenburg University Of Technology Cottbus-Senftenberg