

Mech at a Glance

(E-NEWS LETTER)

HALF YEARLY MAGAZINE

JAN-JUN-2025

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

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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	24
2.	Dr. D. S. Mehta	Associate Professor	Thermal System Design, Computational Fluid Dynamics, Phase Change Materials	17
3.	Dr. S. P. Patel	Associate Professor	Machine Design	20
4.	Prof. A. B Patel	Assistant Professor	Thermal Engineering	22
5.	Dr. V. D. Patel	Assistant Professor	Thermal Science	22
6.	Prof. S. K. Dabhi	Assistant Professor	Solar Energy, IC Engine, Auto.	16
7.	Dr. A. D. Patel	Assistant Professor	Machine Design	20
8.	Dr. A. R. Chaudhari	Assistant Professor	Machine Design	16
9.	Dr. P. N. Boka	Assistant Professor	Design Engineering	18
10.	Dr. A. K. Patel	Assistant Professor	Advance Manufacturing Techniques	16
11.	Prof. G. S. Patel	Assistant Professor	Manufacturing Engineering	19
12.	Dr. K. P. Modi	Assistant Professor	Thermal Engineering	14
13.	Prof. K. S. Banker	Assistant Professor	Non-Conventional, Composite Materials	21
14.	Prof. P. K. Gajjar	Assistant Professor	Welding Metallurgy, Advanced Manufacturing Processes	14
15.	Prof. B. D. Prajapati	Assistant Professor	Manufacturing Engineering	21

Faculty/staff training/seminar/conferences attended

Sr. No	Name of Faculty	Training	Name of Institute/ Organizer	Duration	
				From	To
1	Prof.B.D.Prajapati	Financial Institutions And Markets	NPTEL	20/01/2025	30/04/2025
2	Prof.G.S.Patel	Educational Technology And Ict	NPTEL	20/01/2025	11/04/2025
3	Prof.G.S.Patel	Fundamental Of Welding Science And Technology	NPTEL	20/01/2025	14/03/2025
4	Prof.P.K.Gajjar	Fundamental Of Welding Science And Technology	NPTEL	20/01/2025	14/03/2025
5	Prof.B.D.Prajapati	Time Management And Increasing Productivity	KCG	21/01/2025	21/01/2025
6	Prof.B.D.Prajapati	Time Management And Increasing Productivity	KCG	21/01/2025	21/01/2025
7	Prof.V.D.Patel	Intellectual Property Ustav	OTHER	21/04/2025	26/04/2025
8	Prof.A.R.Chaudhari	Oil Hydraulics And Pneumatics	OTHER	22/01/2024	15/03/2024
9	Prof.A.R.Chaudhari	Financial Institutions And Markets	NPTEL	22/01/2025	19/04/2025
10	Prof.P.K.Gajjar	Welding Application Technology	NPTEL	22/07/2024	13/09/2024
11	Prof.K.S.Banker	Advances In Materials And Manufacturing	OTHER	23/09/2024	28/09/2024
12	Prof.K.S.Banker	Advances In Materials & Manufacturing	ATAL	23/09/2024	28/09/2024
13	Prof.A.R.Chaudhari	Industrial Training At Vasant Fabricators Pvt Ltd, Chhapi, Palanpur	CTE	24/06/2024	06/07/2024
14	Prof.B.D.Prajapati	Industrial Training	CTE	24/06/2024	07/07/2024
15	Prof.P.N.Boka	Two Week Industrial Training	OTHER	24/06/2024	06/07/2024

Sr. No	Name of Faculty	Training	Name of Institute/ Organizer	Duration	
				From	To
16	Prof.B.D.Prajapati	Github For Youth	OTHER	30/04/2025	30/04/2025

Research Publications

International Conference publications:

Name of staff	Title of paper	Name of journal	Month & Year of publication	Volume Issue Page No. ISSN/ISSP No.
Prof. S.K.Dabhi	Development of novel thermal storage integrated pasteurizer for solar milk pasteurization system	Applied Thermal Engineering	January-2025	Volume 263, 15 March 2025, 125375; DOI: https://doi.org/10.1016/j.applthermaleng.2024.125375
Dr. P. K. Gajjar	Experimental investigation on the effect of post-weld heat treatment on intergranular corrosion properties of auto TIG-welded SA213 TP304 grade austenitic stainless steel	Canadian Metallurgical Quarterly	April-2025	Vol. 64 No. 2 (2025); DOI: 10.1080/00084433.2025.2487724
Prof. B.D.Prajapati	Investigation on the mechanical and wear behavior of TIC reinforced AZ64 magnesium alloy composites	International Conference on Newer Engineering Concepts and Technology	April-2025	AIP Conf. Proc. 3270, 020245 (2025)
Prof. K.S.Banker	Erosion resistance evaluation of WC and NiCr coatings on SS316 steel in hydro machinery applications: An HVOF spraying approach	AIP Conference Proceedings	April-2025	AIP Conf. Proc. 3270, 020261 (2025)

Department Activities / Achievements

- Prof. D. S. Mehta recognized as NPTEL Discipline star in Mechanical Engineering for duration Jan-April-2025.
- Dr. P. N. Boka has received best Ph.D. thesis award in Engineering category from Gujarat Technological University, May- 2025
- Dr. P.K. Gajjar has translated 2nd Year UG Book on “Materials Engineering” in Gujarati Language at AICTE.

Department Activities / Achievements

Sr. No.	Internship [Name of Company]	Name of Guide
1.	All Pack Machines	All Faculty
2.	Ammann India Pvt Ltd	
3.	Aptek Instrumentation Pvt. Ltd.	
4.	Balaji Engineering	
5.	Banas Dairy	
6.	Bosch Rexroth Pvt. Ltd, Sanand, Gujarat, India	
7.	Coach International Technique Pvt. Ltd.	
8.	Diesel Loco Shed, Sabarmati	
9.	Gmm Pfaudler Ltd.	
10.	Gujrat State Road Transport Corporation (GSRTC) Workshop, Palanpur	
11.	I-Flp Explosionproof Private Limited	
12.	Imi Machine Tools Pvt Ltd	
13.	Jyoti Cnc Automation Ltd	
14.	Marg I.T.I. Surjan Foundation Rampura	
15.	Monarch Innovation Pvt Ltd	
16.	Prasad Koch Technik Pvt Ltd	
17.	Sarjan Foundation	
18.	Tema India Pvt Ltd	

Department Activities

Industrial Visit

Sr. No.	Name of Industry	Date of Visit	Semester(Students)
1	Leakproof Engineering, Chhapi	06/02/2025	2 nd ,4 th ,6 th Sem 2 (60)
2	IMI Machine Tools, Chhatral	12/02/2025	2 nd ,4 th ,6 th Sem 2 (49)
3	Vasant Fabricators Pvt. Ltd.	15/02/2025	2 nd ,4 th ,6 th Sem 2 (38)
4	Wanakbori Thermal Power Plant	21/02/2025	2 nd ,4 th ,6 th Sem. (50)



Industrial visit at Leak Proof



IMI Machine Tool Visit



Wanakbori Powerplant Visit



During Vasant Fabricators Pvt. Ltd. Visit