

Mech at a Glance

(E-NEWS LETTER)

HALF YEARLY MAGAZINE

JAN-JUNE-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:- Purabiya Maharshi, Prajapati Meet

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

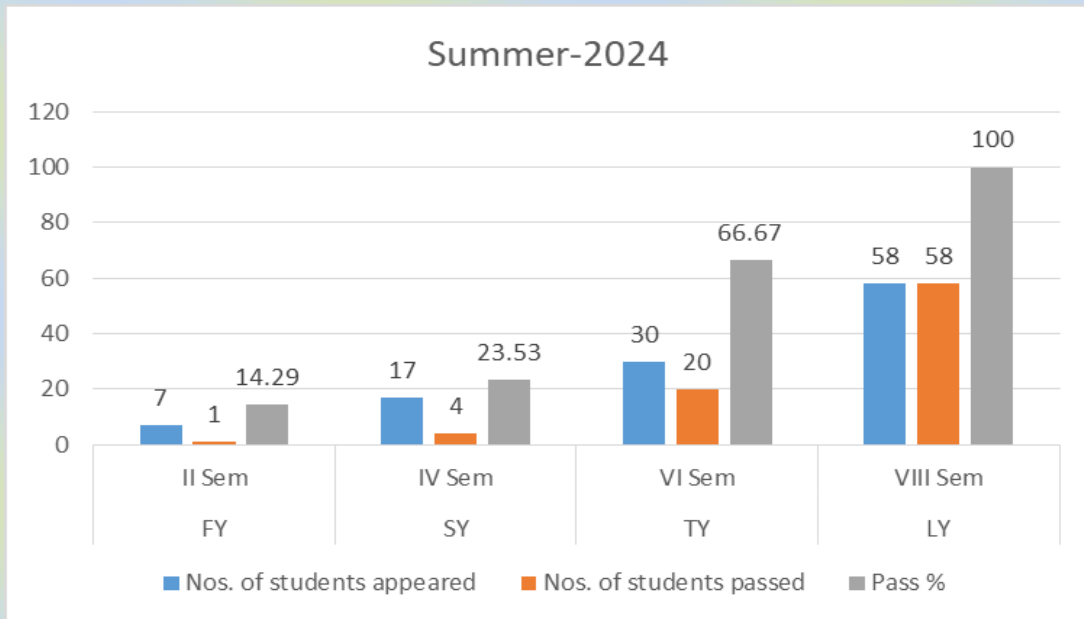


Faculties of Department

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

Summer - 2024		Nos. of students appeared	Nos. of students passed	Pass %
FY	II Sem	7	1	14.29
SY	IV Sem	17	4	23.53
TY	VI Sem	30	20	66.67
LY	VIII Sem	58	58	100



Topper of Summer 2024 GTU Exam

2nd Semester

Sr. No.	Enrollment No	Name	SPI
1	230610119010	ZALA SURYADEVSINH GAJENDRASINH	6.86

4th Semester

Sr. No.	Enrollment No	Name	SPI
1	220610119005	SOLANKI DEVANG BABUBHAI	7.65
2	230613119004	MEVADA CHIRAGKUMAR DILIPKUMAR	7.39
3	230613119012	PANCHAL MITESHKUMAR PRAKASHBHAI	6.83

6th Semester

Sr. No.	Enrollment No	Name	SPI
1	210610119006	PRAJAPATI MEET	8.30
2	220613119017	SUTHAR PRAKASHBHAI UMABHAI	8.22
3	210610119012	KORI MAYANKKUMAR SANTOSH	8.17

8th Semester

Sr. No.	Enrollment No	Name	SPI
1	200610119012	PRAJAPATI VISHALKUMAR JAYANTIBHAI	10.00
2	200610119016	GOSAI VIRENDRAPURI HAREHPURI	10.00
3	210610119508	PANCHAL PARTH VASANTBHAI	10.00

Faculty/staff training/seminar/conferences attended

Sr. No	Name of Faculty	Training	Name of Institute/ Organizer	Duration	
				From	To
1	Prof. B.D.Prajapati	Computer Integrating Manufacturing	NPTEL	01-01-2024	24-04-2024
2	Prof. K.P.Modi	Introduction To Abrasive Machining And Finishing Processes	NPTEL	22-01-2024	15-03-2024
3	Prof. A.R.Charudhary	Oil Hydraulics And Pneumatics	OTHER	22-01-2024	15-03-2024
4	Prof. A.R.Charudhary	Train The Trainer Program-Electrical Vehicle-(Ev 1.0)	CTE	18-03-2024	22-03-2024

Sr. No	Name of Faculty	Training	Name of Institute/ Organizer	Duration	
				From	To
5	Prof. B.D.Prajapati	Fundamentals Of Semiconductor Package Manufatring And Test	OTHER	01-05-2024	01-06-2024
6	Prof. A.K.Patel	Two-Week Industrial Training At "Siemens Energy Industrial Turbomachinery India Private Limited"	OTHER	13-05-2024	27-05-2024
7	Prof. G.S.Patel	Industrial Training	CTE	10-06-2024	22-06-2024
8	Prof. A.K.Patel	Two-Week Industrial Training At "Sotac Sotac Pharmaceuticals Limited"	OTHER	17-06-2024	29-06-2024
9	Dr. D.M.Patel	From Concept To Manuscript: A Deep Dive Into Research Writting Techniques	CTE	24-06-2024	29-06-2024
10	Prof. P.K.Gajjar	Industrial Training At Atlas Technologies Pvt. Ltd., Mahesana	OTHER	24-06-2024	07-07-2024

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.
Dr. P. K. Gajjar	Mechanical and Intergranular Corrosion Properties of Auto TIG Welded TP347H-T91	Web of Science	Jan-2024	Materials Science and

	Dissimilar Weldments			Technology - SAGE
Prof. K.S. Banker	Futuristic Trends In Mechanical Engineering / Recent Advancement In Metal Matrix Composites: Material, Methods And Applications	"Book/ Chapter Publication"	Feb-2024	
Dr. P. K. Gajjar	Investigation of effect of post weld heat treatment on micro hardness and microstructure of auto TIG welded stabilized SA213 TP347H weldments	Scopus	April-2024	Welding International - Taylor & Francis

Faculty Achievements

- Prof. K. P. Modi achieved doctorate degree on title of “Experimental Investigations of Process Parameters for Material Removal Rate And Surface Roughness In Magnetic Abrasive Finishing of Hot Die Steel (Hd-13) And En-31 Steel” dated on 20th April, 2024 from Gujarat Technological University.
- Prof. A. D. Patel achieved doctorate degree on title of “Performance Analysis of SmaW Welded Novel Cruci-Trap Joint over Conventional Cruciform Joint for Steel Structures Application” dated on 01st July, 2024 from Gujarat Technological University.
- Prof. V. D. Patel achieved doctorate degree on title of “Experimental Investigation of Baffled Solar Dryer with Paraffin Wax as an Energy Storage Material” dated on 1st July, 2024 from Gujarat Technological University.
- Prof. P. K. Gajjar achieved doctorate degree on title of “Experimental Investigation on the Effect of Post Weld Heat Treatment Parameters on Sensitization Recovery of Auto TIG Welded Austenitic Stainless Steels Tube” dated on 16th July, 2024 form Gujarat Technological University.
- Patent No.:528730 Application No.:202121056480 Title: Universal Centrifugal Casting Machine Granted on 18/03/2024 to Dr. A.K.Patel
- Design No.:401813-001 Title: Solar Distillation Device With Fins Issue Date 09/02/2024 to Dr. P.N.Boka

- Design No.:400976-001 Title: Stepped Solar Distillation Device With Baffles Issue Date 12/02/2024 to Dr. P.N.Boka
- Design No.:346732-001 Title: Stepped Corrugated Solar Still With Fins Issue Date 22/02/2024 to Dr. P.N.Boka
- Patent No.:417308 Application No.:202023033474 Title: Strip Electric Discharge Machine For Turning Operation Granted on 09/01/2023 to Dr. D.M.Patel
- Patent No.:416742 Application No.:201921014967 Title: Wire Electric Discharge Machine For Turning Operation Granted on 04/01/2023 to Dr. D.M.Patel
- Patent No.: 494368 Application No.: 202121012147 Title: Multicutter Groove Cutting Machine (Mgcm) Granted on 04/01/2024 to Prof. A.D.Patel
- Patent No.: 522555 Application No.: 202121022448 Title: Two-Piece Plus Type Cruci-Trap Welded Joint (Ctwj) Granted on 08/03/2024 to Prof. A.D.Patel

Student Project/ Internship

Sr. No.	Internship [Name of Company]	Name of Guide
1.	Adani Gas Ltd	All Faculty
2.	Ambica Plastomech Llp	
3.	Ammann India Private Limited	
4.	Apollo Tyres Ltd	
5.	Aqua Engineering Limited	
6.	Atlas Industries	
7.	Build Infinite	
8.	Champion Profile	
9.	Engineering Cad/Cam Solution	
10.	Finetech Engineers	
11.	Hajee Ap Bava Ltd	
12.	I Tile	
13.	Indo German Tool Room	
14.	Indo German Tool Room Ahmedabad	
15.	International Automobile Centre Of Excellence	

16.	Itile Llp
17.	Jyoti Cnc Automation Limited
18.	Karnavati Engineers
19.	Khodiyar Cad Center Mehsana-2
20.	Kingsley Eco Asia
21.	Linde Engineering India Private Limited
22.	Microtech
23.	Nkp Pharma Pvt.Ltd.
24.	Par Techno Heat Pvt.Ltd
25.	Par Techno Heat Pvt.Ltd
26.	Par Techno-Heat Private Limited
27.	Pharmalab India Pvt.Ltd.
28.	Powerbuild Pvt. Ltd
29.	Shusa Mechatronics
30.	Smit Medimed Private Limited (Smpl)
31.	Tacklers Tachno Industries
32.	Vimco Motors Pvt Ltd Mehsana Palavasna
33.	Welspun India Limited
34.	Western Railway Coach Repair/Maintenance Centre Kankariya
35.	Zydus Life Sciences Ltd.
36.	Volkswagen Mahesana

Department Activities

Industrial Visit

Sr. No.	Name of Industry	Date of Visit	Semester
1	Precision Mass Products Pvt. Ltd., Chhatral	25/04/2024	5,7



Student Placement

Sr. No.	Full Name	Company Name	Designation
1	Pathan Sohil Khan Jahangir Khan	Ganesh Engineering Co.	Mechanical Design Engineer
2	Patel Tirth Jayeshkumar	Gujarat Multi Gas Base Chemicals Ltd.	Graduate Engineer Trainee
3	Prajapati Vishalkumar Jayantibhai	Zyodus Lifesciences	Trainee Officer
4	Arvind Kumar Yadav	Clair Engineers Pvt. Ltd.	Site-Engineer
5	Raj Prajapati	Irm Offshore And Marin Engineers Pvt. Ltd.	Jr. Engineer
6	Bhuriya Jigar Rajubhai	A V Steel Forging Pvt. Ltd	Jr. Engineer
7	Panchal Abhi Nileshkumar	Ammann India Private Limited	Graduate Apprentice
8	Suthar Hitesh Karshanbhai	Power Build Pvt. Ltd.	Graduate Apprentice
9	Patanwadiya Maulikkumar Satishbhai	Jyoti Cnc Automation Ltd.	Graduate Engineer Trainee
10	Tirth Sureshkumar Rana	Hindustan Gold Industries Pvt. Ltd.	Graduate Engineer Trainee
11	Patel Jitkumar Vishnubhai	Vtech Nxtgen Cars Private Limited	Sales Consultant
12	Dipanshu Mewada	Baxter Pharmaceuticals India Private Limited	Apprenticeship

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