

# Mech at a Glance

(E-NEWS LETTER)

HALF YEARLY MAGAZINE

JAN-JUNE-2023

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:-**Prajapati Vishal, Vishwakarma Ritik

## **Contact us**

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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

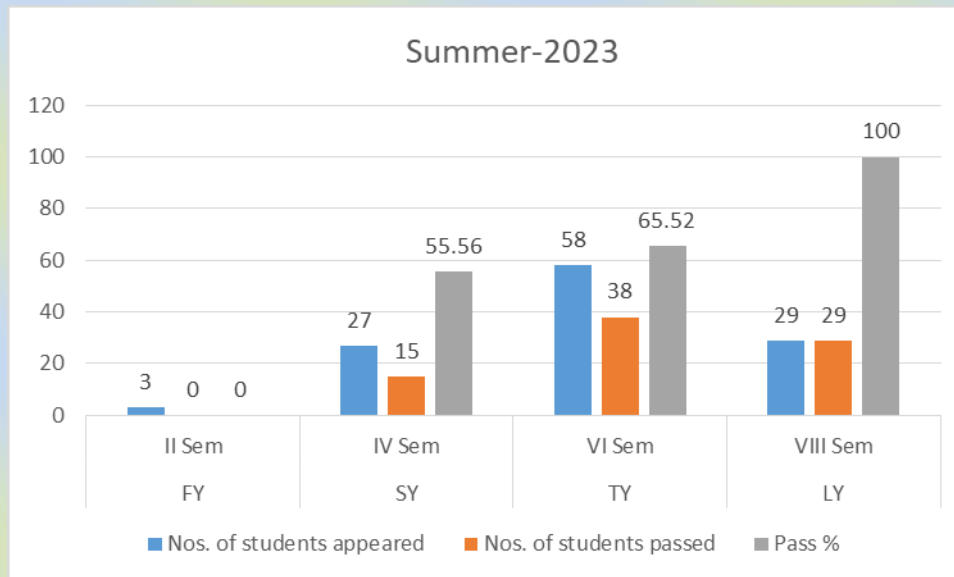


## Faculties of Department (As on July 2023)

Sr. No.	Name of Faculty	Designation	Area of Work	Teaching Experience (Years)
1	Prof. (Dr.) K. B. Judal	Principal & Professor	Computer aided Design and Manufacturing Unconventional Manufacturing Process	21
2	Dr. D. M. Patel	Professor	Laser processing of materials Micro manufacturing	22
3	Prof. A. B Patel	Assistant Professor	Thermal Engineering	20
4	Prof. V. D. Patel	Assistant Professor	Thermal Science	20
5	Prof. S. K. Dabhi	Assistant Professor	Solar Energy, IC Engine, Auto.	14
6	Prof. A. D. Patel	Assistant Professor	Machine Design	18
7	Prof. A. R. Chaudhari	Assistant Professor	Machine Design	14
8	Prof. P. N. Boka	Assistant Professor	Design Engineering	16
9	Prof. A. K. Patel	Assistant Professor	Advance Manufacturing Techniques	14
10	Prof. G. S. Patel	Assistant Professor	Manufacturing Engineering	17
11	Prof. K. P. Modi	Assistant Professor	Thermal Engineering	12
12	Prof. K. S. Banker	Assistant Professor	Non-Conventional, Composite Materials	19
13	Prof. P. K. Gajjar	Assistant Professor	Welding Metallurgy, Advanced Manufacturing Processes	12
14	Prof. B. D. Prajapati	Assistant Professor	Manufacturing Engineering	19

## Result Analysis

Summer - 2023		Nos. of students appeared	Nos. of students passed	Pass %
FY	II Sem	3	0	0
SY	IV Sem	27	15	55.56
TY	VI Sem	58	38	65.52
LY	VIII Sem	29	29	100



## Topper of Winter 2022 GTU Exam

### 2<sup>nd</sup> Semester

Sr. No	Enrollment No	Name	SPI
1	220610119005	Solanki Devang Babubhai	6.86
2	220610119003	Makvana Rakesh Bhikhabhai	5.50
3	220610119006	Parmar Rohitkumar Paragbhai	5.41

**4<sup>th</sup> Semester**

Sr. No	Enrollment No	Name	SPI
1	210610119007	Purabiya Maharshi Rajesh	7.96
2	210610119006	Prajapati Meet	7.91
3	210610119012	Kori Mayankkumar Santosh	7.61

**6<sup>th</sup> Semester**

Sr. No	Enrollment No	Name	SPI
1	200610119012	Prajapati Vishalkumar Jayantibhai	8.80
2	210610119502	Vishwakarma Ritik Brijkishor	7.98
3	200610119004	Panchal Ketan Maheshkumar	7.83

**8<sup>th</sup> Semester**

Sr. No	Enrollment No	Name	SPI
1	200610119525	Akshay Kumar Nagraj	10.00
2	200610119529	Prajapati Dhruv Sureshkumar	10.00
3	190610119047	Prajapati Rajeshkumar Virabhai	10.00

**Faculty/staff training/seminar/conferences attended**

Sr. No	Name of Faculty	Training	Name of Institute/Organizer	Duration	
				From	To
1	B. D. Prajapati	NBA Accreditation and Teaching And Learning in Engineering (NATE)	NPTEL	23-01-2023	14-04-2023
2	S. K. Dabhi	Blended Learning	NITTTR	30-01-2023	03-02-2023
3	B. D. Prajapati	Induction Programme Phase-I	NITTTR	30-01-2023	10-02-2023

Sr. No	Name of Faculty	Training	Name of Institute/Organizer	Duration	
				From	To
4	P. K. Gajjar	Induction Phase-2	NITTTR	13-02-2023	24-02-2023
5	A. B. Patel	Patent Drafting And Filing	Other	20-02-2023	24-02-2023
6	Dr. D. M. Patel	Advanced Industry Powered Faculty Immersion Program	Other	29-05-2023	03-06-2023
7	K. S. Banker	Comprehensive Training on CNC Programming & CAD/CAM Integration	Other	17-07-2023	21-07-2023

## 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.
K. P.Modi	Multi-response optimization of magnetic abrasive finishing process parameters on AISI H13 hot die steel using grey relational analysis	Materials Today: Proceedings	February,2023	
Dr. Dhaval M. Patel	Material removing method for rotational parts with wire EDM machine	Journal Of Aeronautical Materials JAM [230221-018288],	Vol. 43, Issue-01, 2023 pp. 131-143 Feb 21, 2023	ISSN: 1005-5053
Dr. Dhaval M. Patel	Experimentation with the EDM parameter through a full factorial technique and optimization using regression analysis with carbon nanotubes	International Journal on Interactive Design and Manufacturing (IJIDeM) <a href="https://doi.org/10.1007/s12008-023-01263-2">https://doi.org/10.1007/s12008-023-01263-2</a>	Publish:18 March 2023	Springer-Verlag France SAS
Dr. Dhaval M. Patel	Optimization of process parameters of ultrasonic	Welding International, DOI:		Tailor and Francis



	metal welding for multi layers foil of AL8011 material	10.1080/09507116.2023.2192373 Article: <a href="https://doi.org/10.1080/09507116.2023.2192373">https://doi.org/10.1080/09507116.2023.2192373</a>		Group
A. D. Patel	A Novel Methodology for Welding Joint in Complex Structures: 2-Piece Coplanar Cruci-Trap Welded Joint	Journal of Advanced Manufacturing Systems Vol. 22, No. 2 (2023) 279–305	June,2023	Print- ISSN- 02196867
K. S. Banker	WEDM Machining And Augmentation Of Aluminum Metal Matrix Composite By Stir Casting Process: A Critical Review.	Journal For Basic Sciences	November, 2022.	Volume 22, Issue 11, 2022  388-408  ISSN NO : 1006-8341

## Student Project/ Internship

Sr. No.	Internship [ Name of Company]	Name of Guide
1.	Ammann India Private Limited	All Faculty
2.	Aneri Construction Pvt Ltd	
3.	Aqua Machinerics Pvt Ltd.	
4.	Banas Dairy	
5.	Duke Plasto Technique Pvt. Ltd	
6.	Elsner Technologies	
7.	Firetech Engineering Solutions	
8.	Gmm Pfaudler	
9.	Google	
10.	Harsha Engineers	
11.	Indian Space Reasearch Organisation (Isro)	
12.	Indo German Tool Room - Ahmedabad	
13.	Indutch Composites Technology Pvt. Ltd.	
14.	Kirti Engineering	
15.	M/S Santosh Engineers & Constructor	
16.	Maheshwari Paper Industry Pvt. Ltd.	
17.	Marg Iti , Rampura (Robotics)	

18.	Marg Iti , Sarjan Foundation	
19.	Maxim Tubes Pvt Ltd	
20.	N.K. Industries	
21.	Patel Industry	
22.	Patels Airtemp (India) Limited	
23.	Space Application Centre(Sac) - Indian Space Research Organization (Isro)	
24.	Stream Design Private Limited	
25.	Tenneco Automotive India Pvt. Ltd.	
26.	The One Technologies	
27.	Unity Organic Pvt Ltd	

## Department Activities

### Industrial Visit

Sr. No.	Name of Industry	Date of Visit	Semester
1	Indo-German Tool Room, Ahmedabad	06/04/2023	6
2	Energy Machines Pvt. Ltd	06/04/2023	6
3	Adani (Mundra) Port Visit Report	13-14 /04/2023	6





### Expert Lecture

1. Student Start-up Research and Innovation Festival “Start-Up Acceleration” conducted on 03/10/2022.
2. ‘A Welding Seminar cum exhibition’ at International Automobile Centre of Excellence (iACE), Gandhinagar on 23/04/2023



3. One workshop on “**Advanced Manufacturing**” had organized on 29/04/2023 at Pandit Dindayal Energy University (PDEU) Gandhinagar.

Sr. No.	Date / Year	Names of resource persons	Back ground industry/ academic /R&D	Topics covered	No. of Beneficiaries
<b>Invited Faculty</b>					
1	06-02-2023	M.K.Patel	Academic	SSIP sensitization programme	45
2	06-02-2023	Mr. Vishal Vadher, Mr. Harvish Upadhyay	Industry	Industrial automation technology	57
3	08-02-2023	Mr.Amulya Suthar,Prof. V.H.Khokhani	Industry	Urban development through tourism development and its awareness	44
4	21-02-2023	Mr. Shishir Persai	Academic	“Strategy to crack GATE & Other competitive Exams”	58
5	02-03-2023	M.L. Patel	Academic	G20 Indian presidency and trunk area.	36
6	24-03-2023	H. L.Chaudhari	Academic	G20 working and its engagement group	46
7	10-04-2023	Mr. Mukesh Yogi, Mr. Amit Parmar	Industry	Digital Prototyping Using Inventor	43
8	11-04-2023	Mr. Mrunal	Industry	Career Opportunities For Engineers	47
9	11-05-2023	Mr. B.M. Patel	Industry	Patent Search	53
<b>Invited Faculty</b>					
1	09-03-2023	Dr. R.H. Chaudhari	Academic	A talk on women empowerment	30
2	24-03-2023	A. B. Patel	Academic	Patent Drafting And Filing	48
3	26-04-2023	Dr. C. G. Prajapati	Academic	Trade and investment in G20 countries	30

## Student Placement

Sr. No.	Full Name	Company Name	Designation
1	Prajapati Dhruv Sureshkumar	Ammann India Private Limited	Graduate Engineer Trainee
2	Patel Omkumar Dilipkumar	Ammann India Private Limited	Graduate Engineer Trainee
3	Sathavara Jaydip Rameshkumar	Coatch International Technique Pvt. Ltd.	QC Engineer
4	Ronakkumar Jethabhai Gami	Coatch International Technique Pvt. Ltd.	QC Engineer
5	Patel Rajkumar Bhogilal	5th corner overseas	Production Engineer
6	Vyas Umangkumar Manishkumar	5th corner overseas	Production Engineer
7	Bhemsatar Jeeshanbhai Ishvarbhai	Bhavani Tradelink	Sales Executive
8	Harsh Kumar	Exide Energy Private Limited	Graduate Engineer Trainee
9	Priyanshu Sharma	Exide Energy Private Limited	Graduate Engineer Trainee
10	Mevada Apurv Kumar Chetanbhai	Parle Elizabeth Tools Pvt. Ltd.	Trainee Engineer
11	Priyansh Panchal	GMM Pfaudler Ltd.	Trainee Engineer
12	Prince Panchal	N. A. Roto Machines and Modules India	Draftman
13	Brijeshkumar Rajput	GMM Pfaudler Ltd.	Trainee Engineer
14	Darshan Limbachiya	GMM Pfaudler Ltd.	Trainee Engineer
15	Jaydip Sathvara	GMM Pfaudler Ltd.	Trainee Engineer
16	Ravi Chauhan	GMM Pfaudler Ltd.	Trainee Engineer
17	Ronakkumar Gami	GMM Pfaudler Ltd.	Trainee Engineer
18	Uves Kureshi	GMM Pfaudler Ltd.	Trainee Engineer
19	Bhumesh Parmar	Imagine Powertree Pvt. Ltd.	Graduate Engineer Trainee
20	Keval Tank	Imagine Powertree Pvt. Ltd.	Graduate Engineer Trainee