

Mech at a Glance

(E-NEWS LETTER)

HALF YEARLY MAGAZINE

JULY- DECEMBER 2020

MECHANICAL ENGINEERING DEPARTMENT
GOVERNMENT ENGINEERING COLLEGE PALANPUR



Government of Gujarat

GOVERNMENT ENGINEERING COLLEGE PALANPUR

JAGANA, PALANPUR-AHMEDBAD HIGHWAY, PALANPUR - 385001, GUJARAT, INDIA

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Editorial Board

Prof. A B Patel,
Prof. A D Patel,
Prof. N T Raval,

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

I am really delighted to tell that the department stands on the strength of experienced and well qualified faculty who are very dedicated to teaching and also involved in up-gradation of knowledge. Their research experience will help to cultivate the future of our students.

We care for our students like their parents and have an effective mentoring system to counsel them regularly. I am confident; our students will always make us proud from their performances wherever they are.

Our department looks forward to contributing to solving the technological challenges of the society with active participation from all sections of the society.

Lastly, I feel appreciative of our department and college to have continued education through successful functioning of online teaching and webinars for our students in this tough time of COVID-19 pandemic.



Faculties of Department (As on December 2020)

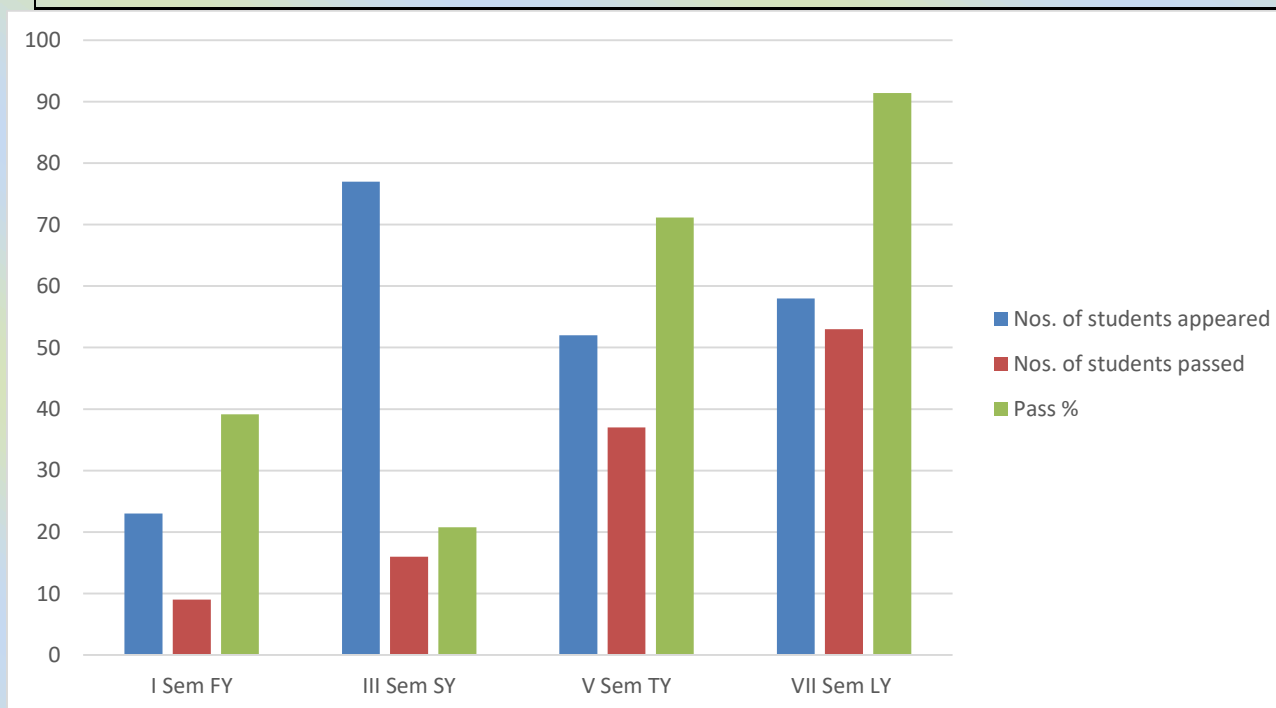
Sr. No.	Name of Faculty	Designation	Area of Work	Teaching Experience (Years)
1	Prof. (Dr.) K B Judal	Principal & Professor	Computer aided Design and Manufacturing Unconventional Manufacturing Process	20
2	Prof. (Dr.) J A Vadher	Professor & Head	Production, Industrial, Automation	22.5
3	Prof. A B Patel	Assistant Professor	Thermal Engineering	19
4	Prof. V.D.Patel	Assistant Professor	Thermal Science	19
5	Prof.S.K.Dabhi	Assistant Professor	SOLAR ENERGY, IC ENGINE, AUTOMOBILE	13
6	Prof. N. A. PATEL	Assistant Professor	CAD/CAM	16
7	Prof. A. D. PATEL	Assistant Professor	Machine Design	17
8	Prof.V.K.Patel	Assistant Professor	MACHINE DESIGN	16
9	Prof. A. R. Chaudhari	Assistant Professor	Machine Design	13
10	Prof. P. N. BOKA	Assistant Professor	Design Engineering	15
11	Prof. A.K.Patel	Assistant Professor	Advance Manufacturing Techniques	13
12	Prof. N.T.Raval	Assistant Professor	CAD/CAM	7

Innovative Practice in Teaching-learning/Assessment Process

Sr. No.	Methodology	Related Subject	Class	Name Of Staff
1	Case Study Base Teaching	Computer Aided Manufacturing	VII	Prof. N. A. PATEL
2	Seminar topics were given to group of students and students have delivered via power point presentation	Machine Design	VII	Prof. A. D. PATEL

Result Analysis

Winter - 2020		Nos. of students appeared	Nos. of students passed	Pass %
FY	I Sem	23	9	39.13
SY	III Sem	77	16	20.78
TY	V Sem	52	37	71.15
LY	VII Sem	58	53	91.38



Topper of winter 2020 GTU Exam

1st Semester

Sr. No	Enrollment No	Name	SPI
1	200610119001	MODH UTSAV ASHISHBHAI	8.53
2	200610119012	PRAJAPATI VISHALKUMAR JAYANTIBHAI	8.47
3	200610119006	PATHAN SOHIL KHAN JAHANGIR KHAN	8.24

3rd Semester

Sr. No	Enrollment No	Name	SPI
1	190610119053	SHARMA PRIYANSHU NAGARMAL	8.09
2	190610119052	SATHAVARA JAYDIP RAMESHKUMAR	7.74
3	190610119050	RAVAL KULDEEP NAILESHKUMAR	7.57

5th Semester

Sr. No	Enrollment No	Name	SPI
1	180610119056	SINGH ROHANKUMAR AJAYKUMAR	8.74
2	180610119021	MAKNOJIYA MOHAMMAD YASINBHAI	8.22
3	180610119022	MALVIYA ISHAN NIRAJ	8.22

7th Semester

Sr. No	Enrollment No	Name	SPI
1	170220119114	VAGHELA SAHIL MUKESHKUMAR	9
2	170610119014	HASHMI MOH HARIS RIYAZ ASLAM	8.93
3	170610119013	GIDWANI SAGAR VASUBHAI	8.8

Faculty/staff training/seminar/conferences attended

Sr. No	Name of Faculty	Training	Name of Institute/Organizer	Duration	
				From	To
1	Dr. J A Vadher	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)	Gujarat Student Startup and Innovation Hub (i-hub)	6/7/2020	14/9/2020
2	Dr. J A Vadher	UDAYAM E-Content Development Course	Knowledge Consortium of Gujarat, Ahmedabad and HRDC, Gujarat University	28/7/2020	18/8/2020
3	Prof. A B Patel	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)	Gujarat Student Startup and Innovation Hub (i-hub)	6/7/2020	14/9/2020
4	Prof. A B Patel	UDAYAM E-Content Development Course	Knowledge Consortium of Gujarat, Ahmedabad and HRDC, Gujarat University	28/7/2020	18/8/2020
5	Prof. A B Patel	Research Methodology and Technical Writing	Dr. S.& S.S. Ghandhy Government Engineering College, Surat	01/12/2020	05/12/2020
6	Prof. V D Patel	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)	Gujarat Student Startup and Innovation Hub (i-hub)	6/7/2020	14/9/2020
7	Prof. V D Patel	UDAYAM E-Content Development Course	Knowledge Consortium of Gujarat, Ahmedabad and HRDC, Gujarat University	28/7/2020	18/8/2020
8	Prof. N A Patel	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)	Gujarat Student Startup and Innovation Hub (i-hub)	6/7/2020	14/9/2020
9	Prof. N A Patel	UDAYAM E-Content Development Course	Knowledge Consortium of Gujarat, Ahmedabad and HRDC, Gujarat University	28/7/2020	18/8/2020
10	Prof. N A Patel	NURTURING INNOVATION AND STARTUP ECOSYSTEM (NISE)	Gujarat Student Startup and Innovation Hub (i-hub)	8/9/2020	23/10/2020

Sr. No	Name of Faculty	Training	Name of Institute/Organizer	Duration	
				From	To
11	Prof. A D PATEL	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)	Gujarat Student Startup and Innovation Hub (i-hub)	6/7/2020	14/9/2020
12	Prof. A D PATEL	ADVANCES IN MANUFACTURING (AIM 2.0)	SVNIT, Surat	5/10/20	9/10/20
13	Prof. A D PATEL	online UHV Refresher 1 FDP	AICTE	23/11/20	27/11/20
14	Prof. A R CHAUDHARI	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)	Gujarat Student Startup and Innovation Hub (i-hub)	6/7/2020	14/9/2020
15	Prof. A R CHAUDHARI	UDAYAM E-Content Development Course	Knowledge Consortium of Gujarat, Ahmedabad and HRDC, Gujarat University	28/7/2020	18/8/2020
16	Prof. A R CHAUDHARI	NURTURING INNOVATION AND STARTUP ECOSYSTEM (NISE)	Gujarat Student Startup and Innovation Hub (i-hub)	8/9/2020	23/10/2020
17	Prof.A.K.Patel	"COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)"	Gujarat Students Startup and Innovation Hub (i-Hub)	06/07/2020	14/09/2020
18	Prof.A.K.Patel	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method of Learning) E-Content Development Course	Knowledge Consortium of Gujarat Education Department, Government of Gujarat	28/07/2020	18/08/2020

Research Publications

International Journal publications:

Name of staff	Title of paper	Name of journal	Month & Year of publication	Volume	Issue	Page no	ISSN/ISSP No.
Dr. K. B. Judal	Recent Advances in Dissimilar Friction Stir Welding of Aluminum to Magnesium Alloys	Materials Today: Proceedings	2020 (Check for 2020 other issue for duplication)	22	4	2665-2675	2214-7853
Dr. J. A. Vadher	Performance Assesment of Cutting Tool - A Review	International Journal of Advance Research in Engineering and Technology	December-2020	11	12	3202-3209	0976-6480
Dr. Jeetendra Vadher	Mechanical characterization of aluminum LM25 based metal matrix composite made with conventional process	Materials Today	Proceedings 21 October 2020				
Prof. N A Patel	Performance Assesment of Cutting Tool - A Review	International Journal of Advance Research in Engineering and Technology	December-2020	11	12	3202-3209	0976-6480

International Conference publications:

- A Novel Way to Schedule Flexible Manufacturing System**, Srushti Bhatt, M. B. Kiran, Jeetendra A. Vadher, Part of the Lecture Notes on Multidisciplinary Industrial Engineering book series (LNMUINEN), Springer, Singapore, First Online: 27 August 2020. Page: 427-445

Department Activities

Expert Session

- An expert lecture was delivered by Dr. J. R. Patel , Mechanical Engineering Department, School of Technology, Pandit Deendayal Petroleum University (PDPU) on "Thermal Energy Storage in Phase Change Material (PCM)" topic. This expert lecture is arranged for the benefit of V Semester Mechanical Engineering Students on 28th September, 2020. Almost 48 students from Mechanical department had got benefited from the same.
- An expert lecture was delivered by Dr. D. S. Mehat, Mechanical Engineering Department, Government Engineering College, Bhavnagar on “Influence of Orientation on Thermal Performance of Shell and Tube Type Latent Heat Storage Unit & quot; topic. This expert lecture is arranged for the benefit of VII, V and III Semesters Mechanical Engineering Students on 3rd October, 2020. Almost 90 students from Mechanical department had got benefited from the same.
- A workshop was conducted by Dr. J. R. Patel, Mechanical Engineering Department, School of Technology, Pandit Deendayal Petroleum University (PDPU) on “Computer Aided Thermal System Analysis”. This expert lecture is arranged for the benefit of VII Semester Mechanical Engineering Students on 6th October, 2020. Almost 52 students from Mechanical department had got benefited from the same.
- An expert lecture was delivered by Mr. Anup Goel. – Managing Director of Anup Goel Engineering study center pune on “Dynamics of Machinery" course. This expert lecture is arranged for the benefit of VII, V Semesters Mechanical Engineering Students on 7th October, 2020. Almost 89 participant (80 Students and 9 faculty members) from Mechanical department had got benefited from the same.
- An expert lecture was delivered by Prof. Anand S Patel, Assistant Professor Department of Mechanical Engineering, Institute of Technology, Nirma University, Ahmedabad on “ZED Maturity Assessment tool- An Introduction" course. This expert lecture is arranged for the benefit of VII Semester Mechanical Engineering Students.
- An expert lecture was delivered by Prof.A.R.Sankhla, Mechanical Engineering Department, Nirma Institute of Technology, Ahmedabad on “Fundamental of Metal Casting Process and Applications" topic. This expert lecture is arranged for the benefit of V Semester Mechanical Engineering Students on 14th October, 2020. Almost 46 students from Mechanical department had got benefited from the same.
- An expert lecture was delivered by Dr. J. P. Patel – Professor and Head, Mechanical Engineering Department, Vidush Somany institute of Technology & Research, Kadi on “Effective Utilization of Resources by Implementing ASRS in Industries" for course of Computer Aided Manufacturing. This expert lecture is arranged for the benefit of VII Semesters Mechanical Engineering Students on 19th October, 2020. Almost 53 participant

(51 Students, 2 faculty members) from Mechanical department had got benefited from the same.

- An expert lecture was delivered by Prof. V. D. Patel – Assistant professor in Mechatronics Engineering Department, U. V. Patel college of Engineering, Ganpat University on “Sensor and Actuator for Automation” for course of Computer Aided Manufacturing. This expert lecture is arranged for the benefit of VII Semesters Mechanical Engineering Students on 20th October, 2020. Almost 60 participant (52 Students, 5 faculty members and 03 Industries persons) from Mechanical department had got benefited from the same.

Achievements

Placement Higher Studies and Entrepreneurship

No of Student placed in companies or Government Sector	11
No of Students admitted to Higher Studies	5
No of Students turned in Entrepreneur	2