

Mech at a Glance

(E-NEWS LETTER)

HALF YEARLY MAGAZINE

JANUARY- JUNE 2017

MECHANICAL ENGINEERING DEPARTMENT
GOVERNMENT ENGINEERING COLLEGE PALANPUR



Government of Gujarat

GOVERNMENT ENGINEERING COLLEGE PALANPUR

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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

It gives an immense pleasure to release half yearly newsletter of Mechanical Engineering Department, Government Engineering College, Palanpur. Our department is well equipped with all latest equipment and instruments; it is having 10 laboratories for under graduate course and separate workshop. The department is having research and project work facility. Staff and supporting faculties are well qualified and expert in their area of work and dedicated to assigned task. Year by year results and placement of our students is improving with increasing number. Projects assigned to students are unique, innovative and every year one or two projects selected for vibrant Gujarat. Our students also participated in state and national level events and also win prizes.



It is expected that wide support for this will be provided by the reader, giving valuable suggestions and observations. This maiden issue of Newsletter should inspire all of us for a new beginning.

Faculties of Department (As on June 2017)

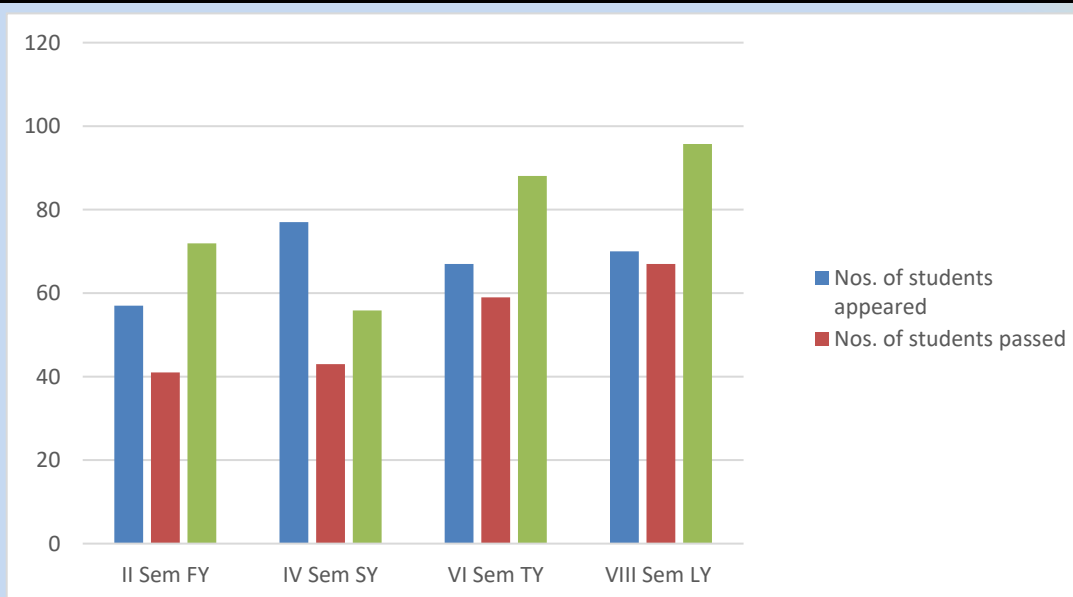
Sr. No.	Name of Faculty	Designation	Area of Work	Teaching Experience (Years)
1	Prof. (Dr.) K B Judal	Principal & Professor (From 1/4/2017 onwards)	Computer aided Design and Manufacturing Unconventional Manufacturing Processes	16.5
2	Prof.(Dr.) J A Vadher	Principal & Professor (1/1/2017 to 30/3/2017) Professor& Head (From 1/4/2017 onwards)	Production, Industrial, Automation	19.0
3	Prof. S S Pathan	Asso. Professor & Head (1/1/2017 to 30/3/2017)	Dynamic Design, Noise and Vibration Control, Finite Element Analysis & Optimization	19.0
4	Prof. A B Patel	Assistant Professor	Thermal Engineering	15.5
5	Prof. V.D.Patel	Assistant Professor	Thermal Science	15.5
6	Prof. N. A. PATEL	Assistant Professor	CAD/CAM	13
7	Prof. K. V. Patel	Assistant Professor	Machine Design	11.5
8	Prof. A. D. PATEL	Assistant Professor	Machine Design	13.5
9	Prof. A. R. Chaudhari	Assistant Professor	Machine Design	9.5
10	Prof. P. N. BOKA	Assistant Professor	Design Engineering	11.5
11	Prof. A.K.Patel	Assistant Professor	Advance Manufacturing Techniques	9.5
12	Prof. N.T.Raval	Assistant Professor	CAD/CAM	3.5

Innovative Practice in Teaching-learning/Assessment Process

Sr. No.	Methodology	Related Subject	Class	Name Of Staff
1	Students are asked to perform experiment and take at least one reading (performance based assessment)	I. C. Engine	6 th mech	Prof. A. D. Patel

Result Analysis

Summer - 2017		Nos. of students appeared	Nos. of students passed	Pass %
FY	II Sem	57	41	71.93
SY	IV Sem	77	43	55.84
TY	VI Sem	67	59	88.06
LY	VIII Sem	70	67	95.71



Topper of Summer 2017 GTU Exam

2nd Semester

Sr. No	Enrollment No	Name	SPI
1	160610119014	KAMAL KANT SAINI	8.65
2	160610119020	MALI BHAVIN RAMESHBHAI	8.52
3	160610119005	BHAVSAR NEEL PIYUSH	8.45

4th Semester

Sr. No	Enrollment No	Name	SPI
1	150610119061	SUTHAR SACHINKUMAR JAGADISHLAL	8.67
2	150610119056	RAJPUT UMANG LAKHVEERSINGH	8.52
3	150610119014	DAS KISLAY	8.24

6th Semester

Sr. No	Enrollment No	Name	SPI
1	140610119019	JOSHI HARSH BHUPENDRAKUMAR	8.79
2	140610119054	RATHORE ABHISHEK SINGH MADAN SINGH	8.79
3	140610119005	CHAUDHARY DIPAKKUMAR MEGHARAJBHAI	8.64

8th Semester

Sr. No	Enrollment No	Name	SPI
1	130610119022	JAKHESARA VIPULKUMAR RUPABHAI	9.53
2	130610119023	JOSHI HARSH VIJAYKUMAR	9.40
3	140613119009	RAMANI VISHALKUMAR LALJIBHAI	9.27

Training attended by Student

Sr. No	Name of Industry	Date	Duration	No. of Student
1	Shubh auto services	01/06/ 2017	2 week	2
2	Banaskantha District Co-op Milk Producer's Union Ltd	01/06/2017	1 week	13
3	Gujarat Apollo Pvt Ltd	29/05/2017	2 week	4
4	Yash Autolink Pvt. Ltd. (HONDA)	05/06/2017	3 week	2
5	BANAS DAIRY,PALANPUR	15/06/2017	10 days	11
6	WINDSOR MACHINES LTD	15/06/2017	3 week	4
7	Rensi Motors (TATA MOTORS)	01/06/2017	2 week	1

Faculty/staff training/seminar/conferences attended

Sr. No	Name of Faculty	Training	Name of Institute/Organizer	Duration	
				From	To
1	Prof.P.N.Boka	Introduction to Space Flight Mechanics	IIT, Bombay	19-06-2017	23-06-2017
2	Prof.A.K.Patel	Wind and Solar Power Generation (Guj-22)	NITTTR, Ext. Centre, Ahmedabad	02-01-2017	06-01-2017

Research Publications

International Conference publications:

Prof. (Dr.) Jeetendra Vadher)

1. **A review on development of Adaptive control system for tool vibration minimization and feed optimization for turning centre.** ICRASET -2017 International Conference on Research and Innovations in Science, Engineering and Technology, 17-19 Feb 2017. Birla Viswakarma Mahavidyalay, VallabhVidhyanagar.
2. **Numerical Analysis of Conical Heat Exchanger**, ICRASET, IJTE special issue- 2017, Page No. 18-21.

PATENT:

File No: 201721005100, Date: 13/02/2017,

Title: A furan no-bake binder system analysis for improved casting quality.

(Prof. Shailee Acharya, Prof. (Dr.) Jeetendra Vadher)

Department Activities

Expert Lecture Session

- An expert lecture was arranged on “Fusion 360 for Designing” and it is delivered by Mr. Mukesh Yogi, Director, Sai CAD, Patan on 14/02/2017 at Seminar Hall, Mechanical Department, GEC Palanpur and 64 students were benefited from it

Industrial Visit

Sr. No.	Name of Industry	Day	Semester
1	VASANT FABRICATORS	13/04/2017	8
2	BANAS DAIRY	14/04/2017	6

Student Projects

Sr. No.	Project Title	Name of Guide
1	FERTILIZER SPRESDER MACHINE	PROF N.A.PATEL
2	AUTO SIZE DETECTION SYSTEM FOR BOTTLE FILLING MACHINE	PROF A.R.CHAUDHARY
3	DESIGN & DEVELOPMENT OF HEAT EXCHANGER SHELL & TUBE TYPE.	PROF A.D.KALANI
4	CONVERSION OF KINETIC ENERGY OF FAN BLADE TO ELECTRICAL ENERGY TO WAY SAVE ELECTRICITY	PROF A.D.PATEL
5	TO DEVELOP WORKING MODEL OF INTELLIGENT BRAKING SYSTEM	PROF K.V.PATEL
6	TO DESIGN AND DEVELOP KERS TECHNOLOGY BASED BICYCLE.	PROF K.V.PATEL
7	DEVELOPMENT OF ACCELEROMETER DRIVEN SMART POWER WHEEL CHAIR.	PROF N.A.PATEL
8	CIRCULARLS FAN AIR SYSTEM	PROF B.J.PRAJAPATI
9	CLOSE LOOP PULSUATING HEAT PIPE.	PROF B.J.PRAJAPATI
10	ECONOMICAL STAIR CLIMBING STRETCHER CUM WHEEL CHAIR	PROF N.A.PATEL
11	ECONOMICAL WEED CUTTING MACHINE	PROF S.S.PATHAN
12	DRON BOMBER WITH CAPACITY TO A PLACE A BOMB AT SPECIFIC LOCATION	PROF A.R.CHAUDHARY

Project is selected Vibrant Gujarat 2017

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AUTOMATED WASTE STORAGE AND TRANSPORTATION SYSTEM FOR WASTE DISPOSAL

OBJECTIVE OF PROJECT
The main objective of this project is to design a mechanical system for an Automated Waste Storage and Transportation System for a Waste Disposal. This mechanical system will consist of the structure, navigation system, and control system of Automated Dustbin. Other than that, the objectives also include the understanding of the use and benefits of the Automated Dustbin.

A PROJECT REPORT
Submitted by

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GAMI DARSHAN

CHAUDHARI CHANDAN)

VAID PARTH

BACHELOR OF ENGINEERING
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GUIDE
PROF. N. A. PATEL

PROF. S. S. PATHAN
HEAD OF DEPARTMENT

Principal
Dr. J.A. Vadher