

Mech at a Glance

(E-NEWS LETTER)

HALF YEARLY MAGAZINE

JANUARY- JUNE 2018

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

Proper communication will play a vital role in institution's development. This newsletter will serve to reinforce and allow increased awareness, improved interaction and integration among all of us.

The mechanical engineering department is committed to create conducive atmosphere for the development of young brains into bright professionals of future. The teaching learning environment is very favorable to students which in turn helpful in their personal as well as career development. This year also "PRAXES 2K18" is celebrated as an technical and cultural event, students have participated in this and event got pleasing response as this event assist students to develop themselves and also improve skills such as organizational, presentation, leadership and interpersonal communication.

Students are performing well in projects, every year department's projects gets recognition. The Projects are unique, innovative and some of are granted by SSIP. Every year students are participated in state and national level Technical and cultural events and presenting their potential.

I wish to all students for better future and contribute for national development by giving best of their abilities.

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Faculties of Department (As on June 2018)

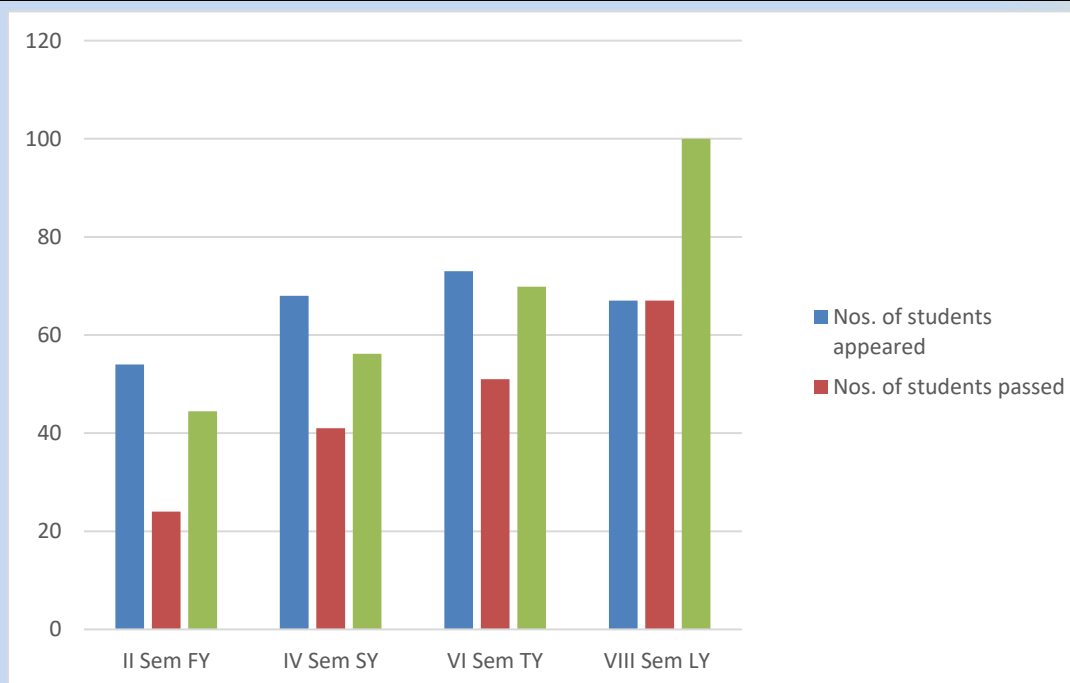
Sr. No.	Name of Faculty	Designation	Area of Work	Teaching Experience (Years)
1	Prof. (Dr.) K B Judal	Principal & Professor	Computer aided Design and Manufacturing Unconventional Manufacturing Processes	17.5
2	Prof.(Dr.) J A Vadher	Professor& Head	Production, Industrial, Automation	20.0
3	Prof. A B Patel	Assistant Professor	Thermal Engineering	16.5
4	Prof. V.D.Patel	Assistant Professor	Thermal Science	16.5
5	Prof. N. A. PATEL	Assistant Professor	CAD/CAM	14
6	Prof. K. V. Patel	Assistant Professor	Machine Design	12.5
7	Prof. A. D. PATEL	Assistant Professor	Machine Design	14.5
8	Prof. A. R. Chaudhari	Assistant Professor	Machine Design	10.5
9	Prof. P. N. BOKA	Assistant Professor	Design Engineering	12.5
10	Prof. A.K.Patel	Assistant Professor	Advance Manufacturing Techniques	10.5
11	Prof. N.T.Raval	Assistant Professor	CAD/CAM	4.5

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 - 2018		Nos. of students appeared	Nos. of students passed	Pass %
FY	II Sem	54	24	44.44
SY	IV Sem	68	41	56.16
TY	VI Sem	73	51	69.86
LY	VIII Sem	67	67	100.00



Topper of Summer 2018 GTU Exam

2nd Semester

Sr. No	Enrollment No	Name	SPI
1	170610119063	YADAV RAHULKUMAR SHIVMURAT	8.32
2	170610119014	HASHMI MOH HARIS RIYAZ ASLAM	7.90
3	170610119053	RUPESH KUMAR SINGH	7.90

4th Semester

Sr. No	Enrollment No	Name	SPI
1	160610119027	PANCHAL JAY PARESHBHAI	8.82
2	160610119012	GURJAR SAMAYKUMAR RAGNATHBHAI	8.39
3	170613119012	PATEL SMIT PRAVINKUMAR	8.18

6th Semester

Sr. No	Enrollment No	Name	SPI
1	150610119056	RAJPUT UMANG LAKHVEERSINGH	8.64
2	150610119064	VAGHELA AMITSINGH KARANSINGH	8.24
3	160613119013	RAMI DHRUMIT SUSHIL	8.09

8th Semester

Sr. No	Enrollment No	Name	SPI
1	140610119054	RATHORE ABHISHEK SINGH MADAN SINGH	9.84
2	140610119013	GAJJAR VIKAS DINESHBHAI	9.64
3	140610119022	MEVADA RAVIKUMAR HASMUKHBHAI	9.64

Training attended by Student

Sr. No	Name of Industry	Date	Duration	No. of Student
1	EXPERTS HUB , BANGALORE	20/1/2018	1 week	4
2	L & T POWER TRAINING INSTITUTE, VADODARA	29/1/2018	1 week	2
3	PRIMA AUTOMATION (INDIA) PVT. LTD, GANDHINAGAR	14/6/2018	2 week	2
4	B M ENGINEERING, AHMEDABAD	21/5/2018	1 week	1

Sr. No	Name of Industry	Date	Duration	No. of Student
5	CAPTAIN PUMPS PVT. LTD	15/5/2018	2 week	2
6	SAMIRI FORGE PVT. LTD	15/5/2018	2 week	1
7	KARNEL ROLLERS	11/6/2018	1 week	1
8	CEO, GEC PATAN	5/02/2018	1 week	58
9	GOKUL REFOILS AND SOLVENT LTD, SIDHDHPUR	18/5/2018	1 week	3
10	BANAS DAIRY	20/5/2018	1 week	6

Faculty/staff training/seminar/conferences attended

Sr. No	Name of Faculty	Training	Name of Institute/Organizer	Duration	
				From	To
1	Prof.V.D.Patel	PROCESS INSTRUMENTATION	GEC, PATAN	05-02-2018	09-02-2018
2	Prof.A.B.Patel	Faculty Development Program for Design Engineering (Level 1)	Gujarat Technological University, Ahmedabad	16-01-2018	19-01-2018
3	Prof.N.A.Patel	Academic Audit and Prepration for NBA Accrediation	NITTTR, Ext. Centre, Ahmedabad	14-05-2018	18-05-2018
4	Prof.A.D.Patel	3 days FDP for student Induction program	Ganpat University, Kherva	07-06-2018	09-06-2018
5	Prof.A.R.Chaudhari	Innovation and advancement in Conventional Industrial Welding Practices.	LDCE, Ahmedabad	28-05-2018	08-06-2018
6	Prof.A.K.Patel	Faculty Development Program for Design Engineering (Level 1)	Gujarat Technological University, Ahmedabad	16-01-2018	19-01-2018
7	Prof.N.T.Raval	Essentials For NX Designers	SIEMENS - CENTRE OF EXCELLENCE,GEC PATAN	05-02-2018	09-02-2018

Research Publications

International Journal publications:

Prof. (Dr.) K B Judal

Ketual Brahmhatt and K. B. Judal (2018), State of Arts: Tribological Properties of Composite materials”, International Journal of Advanced Research in Science, Engineering and Technology Vol. 5, Issue 6 , June 2018, ISSN: 2350-0328.

Prof.(Dr.) J A Vadher

- 1. Empirical Relation of Raw Material and Fuel consumption in Steel Re-Rolling Mills**, International Journal of modern trends in Engineering and Research, ISSN(Online) 23499745, ISSN Print: 23938161, Volume -5, Issue: 2, Feb-2018, page:173-176. Impact Factor 5.278

Department Activities

Expert Lecture Session

Prof. (Dr.) K B Judal

- Invited talk delivered on “Advanced Abrasion based Machining/Finishing Processes” (on 1st January, 2018) in a Short Term Training Program on ‘Advances in Manufacturing & Automation (AMA) during 1st to 5th January, 2018 at GEC Dahod.
- Invited talk delivered on “Advanced Abrasion based Machining/Finishing Processes” (on 1st March, 2018) in a Short Term Training Program on ‘Emerging Trends in major thrust areas of Mechanical Engineering’ during 26 February to 9th March, 2018 organized online via Video Conferencing by Directorate of Technical Education, Gandhinagar.
- An expert lecture was arranged on “Welding Technology” and delivered by Shri Jignesh Patel, Technosparc Engineers team on 20/03/2018 at Seminar Hall, Mechanical Department, GEC Palanpur and 54 students were benefited from it



- An expert lecture was arranged on “Industrial Automation with PLC” and delivered by Shri Mrityunjaykumar,“ Sofcon India Pvt. Ltd team on 17/04/2018 at Seminar Hall, Mechanical Department, GEC Palanpur and 48 students were benefited from it



- An expert lecture was arranged on “HVAC” and delivered by Shri Saketkumar Gupta,“ Sofcon India Pvt. Ltd team on 17/04/2018 at Seminar Hall, Mechanical Department, GEC Palanpur and 58 students were benefited from it

Industrial Visit

Sr. No.	Name of Industry	Day	Semester
1	COE, Govt. Engg. College, Patan	5/2/18 to 9/2/18	6
2	Banas Dairy, Palanpur	26/2/18	6
3	College of Renewable Energy & Environmental Engg., SDAU, Dantiwada	7/3/2018	8

Student Projects

Sr. No.	Project Title	Name of Guide
1	AUTOMATED 5 DOF ROBOTIC ARM MECHANISM (1732)	Prof. P. N. Boka
2	DEVELOPMENT OF INTELLIGENT WHEEL-CHAIR	Prof. N. A. Patel
3	TOGGLE MECHANICAL ADVANTAGE OPTIMIZATION	Prof. K. V. Patel
4	DESIGN AND DEVELOPMENT OF BATTERY OPERATED CAR JACK WITH AUTOMATION	Prof. K. V. Patel
5	DESIGN AND DEVELOPMENT OF BULLOCK CART WITH 3 -DOF	Prof. N. A. Patel
6	DESIGN AND DEVELOPMENT OF DUNG CLEANING SYSTEM IN BYRE	Prof. N. A. Patel
7	DESIGN AND DEVELOPMENT OF SHOCK-ABSORBING WHEEL WITH INTEGRAL SUSPENSION	Prof. N. A. Patel
8	DEVELOPMENT OF COMPOUND MECHANISM FOR CUTTING, GRINDING AND BUFFING	Prof. A. D. Patel
9	POLLUTION CONTROL WASTE PLASTIC FIRE GAS	Prof. A .K. Patel
10	SOLAR POWERED GRASS CUTTING AND INSECTICIDE SPRAYING MACHINE	Prof. A. B. Patel
11	CLEAN PLASMA CUTTING PROCESS	Prof. P. N. Boka
12	AUTOMATIC SEED SOWING MACHINE	Prof. N. T. Raval
13	DESIGN AND DEVELOPMENT OF PLANT IRRIGATION WATER SPRINKLER	Prof. P. N. Boka
14	MECHANICAL SPRAYER	Prof. A .K. Patel
15	DESIGN AND DEVELOPMENT OF REMOTE CONTROLLED, BATTERY OPERATED FORKLIFT	Prof.A.R.Chaudhary
16	FINITE ELEMENT ANALYSIS OF HORIZONTAL PRESSURE VESSEL WITH DISHED ENDS	Prof. N. T. Raval
17	STUDY ABOUT VAPOUR ABSORPTION REFRIGERATION SYSTEM	Prof. V. D. Patel

Achievements

Sr. No.	Enrollment Number	Name of Student	Name of Event	Place	Date	Outcome
1	160610119032	PATEL DHAVAL S	TECHFEST VEYG- 2K18 (QUANTICO 2.0)	SPB PATEL ENGG. COLLEGE, MEHSANA	14-15 FEB 2018	1 ST RANK
2	170610119003	CHAUDHARY JIGARKUMAR N	ALL INDIA INTER ENGG. SPORTS TOURNAMENT IGNIS 2018 (HAND BALL)	SVNIT SURAT	6 TH TO 8 TH APRIL 2018	1 ST RANK
3	170610119026	PANCHAL DILAK D	PRAKSES 2K18 (CONQUEROR OF ARENA)	GEC PALANPUR	15 TH – 16 TH MARCH 2018	2 ND RANK
4	170610119053	RUPESH KUMAR SINGH	TWO DAY NATIONAL LEVEL WORKSHOP ON MIND CONTROLLED ROBOT	MSU, BAROD	23 RD – 24 TH FEB 2018	OUTSTANDING PERFORMANCE
5	190610119010	CHAUHAN RAVI KAMLESHBHAI	GUJARAT SCIENCE CARNIVAL 2018	SANKALCH AND PATEL COLLEGE OF ENGG., VISNAGAR	25-26 JAN 2018	CERTIFICATE OF APPRECIATION
6	160610119054	SHUBHAM KUMAR	TWO DAY NATIONAL LEVEL WORKSHOP ON MIND CONTROLLED ROBOT	MSU, BAROD	23 RD – 24 TH FEB 2018	OUTSTANDING PERFORMANCE
7		KISLAY DAS	AUTOMOTIVE INDUSTRY SIMULATION INTERNSHIP	ExpertsHub Industry Skill Development Center	20 TH TO 27 TH JAN 2018	BEST INTERN AWARD