

Mech at a Glance

(E-NEWS LETTER)

HALF YEARLY MAGAZINE

JULY- DECEMBER 2016

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

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Vision and Mission of Institute

VISION

" To excel in technical education and research by amalgamation of students, faculties and industries for serving the nation."

MISSION

To make the students to be better technocrats and professionals with quality, meeting their needs in the area of technical studies and providing better learning opportunities to develop skill for creating a better tomorrow.

Vision and Mission of Department

VISION

"The Department of Mechanical Engineering aims to be recognized in Banaskantha District and the state of Gujarat as a leader in Mechanical engineering education and research. This vision will be fulfilled through excellence in education and targeted research themes in emerging areas such as Manufacturing, Design, Dynamics, Fluid and Thermal"

MISSION

The mission of the Mechanical Engineering Department is to educate and prepare students of the undergraduate lever for leadership roles in the fields of Mechanical Engineering and to conduct research for the improving living standard of the society.

From the Desk of Head of the Department

I am happy to see that the first volume of the “NEWSLETTER” has been brought out by Newsletter Team of Mechanical Engineering Department. I take this opportunity to congratulate all the team members and the publication team in particular for their commendable effort in bringing out the first successful issue of “NEWSLETTER”. The department was started in the year 2009. Right from the inception it is committed to achieve recognition as a department of excellence with the committed work of highly experienced faculty to impart knowledge and quality education to the students. It has sound infrastructural and fully fledged laboratories. This year “PRAXES 2K17” has been celebrated in March 2017 as First technical and cultural event in the college.



For the year, NEWSLETTER as a magazine will serve a useful platform for exchanging ideas and information among the GEC , Palanpur Family and with outer world also. This News Letter would be a snapshot of the various activities and achievements of all those associated with the Mechanical Department of GEC. It is expected that wide support for this will be provided by the reader, giving valuable suggestions and comments.

Faculties of Department (As on December 2016)

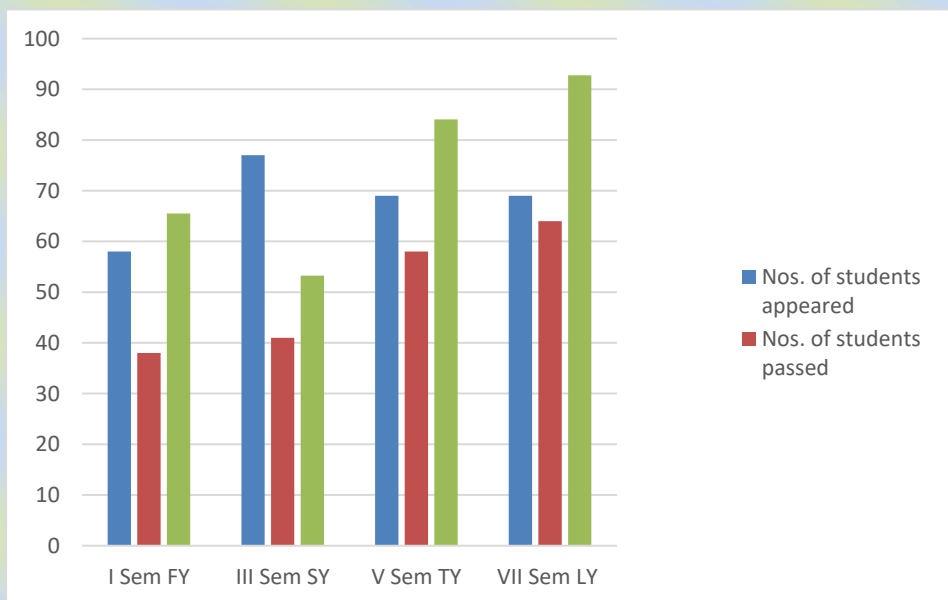
Sr. No.	Name of Faculty	Designation	Area of Work	Teaching Experience (Years)
1	Prof. (Dr.) J A Vadher	Principal & Professor	Production, Industrial, Automation	18.5
2	Prof. S S Pathan	Asso. Professor & Head	Dynamic Design, Noise and Vibration Control, Finite Element Analysis & Optimization	18.5
3	Prof. A B Patel	Assistant Professor	Thermal Engineering	17
4	Prof. V.D.Patel	Assistant Professor	Thermal Science	17
5	Prof. N. A. PATEL	Assistant Professor	CAD/CAM	12.5
6	Prof. K. V. Patel	Assistant Professor	Machine Design	11
7	Prof. A. D. PATEL	Assistant Professor	Machine Design	13
8	Prof. A. R. Chaudhari	Assistant Professor	Machine Design	09
9	Prof. P. N. BOKA	Assistant Professor	Design Engineering	11
10	Prof. A.K.Patel	Assistant Professor	Advance Manufacturing Techniques	09
11	Prof. N.T.Raval	Assistant Professor	CAD/CAM	03

Innovative Practice in Teaching-learning/Assessment Process

Sr. No.	Methodology	Related Subject	Class	Name Of Staff
1	Design of any element from IC/Auto lab (ex. Fan hook, door handle, door hing screws etc...)(on the spot design)	D. M. E.	5 th Mech	Prof. A. D. Patel
2	Models were used in laboratory of Engineering Graphics (EG) to conceptualize the problem.	E.G.	1 st Sem	Prof. A. B. Patel

Result Analysis

Winter - 2016		Nos. of students appeared	Nos. of students passed	Pass %
FY	I Sem	58	38	65.52
SY	III Sem	77	41	53.25
TY	V Sem	69	58	84.06
LY	VII Sem	69	64	92.75



Topper of Winter 2016 GTU Exam

1st Semester

Sr. No	Enrollment No	Name	SPI
1	160610119014	KAMAL KANT SAINI	8.34
2	160610119005	BHAVSAR NEEL PIYUSH	8.28
3	160610119055	SINGH UJWAL	7.93

3rd Semester

Sr. No	Enrollment No	Name	SPI
1	150610119056	RAJPUT UMANG LAKHVEERSINGH	8.18
2	150610119057	RAMI KULDEEP KAMLESHKUMAR	8.12
3	150610119061	SUTHAR SACHINKUMAR JAGADISHLAL	8.03

5th Semester

Sr. No	Enrollment No	Name	SPI
1	140610119013	GAJJAR VIKAS DINESHBHAI	8.94
2	140610119005	CHAUDHARY DIPAKKUMAR MEGHARAJBHAI	8.77
3	140610119036	PATEL DARSHANKUMAR GAUTAMBHAI	8.77

7th Semester

Sr. No	Enrollment No	Name	SPI
1	140613119009	RAMANI VISHALKUMAR LALJIBHAI	8.97
2	130610119004	BAROT JIMIBHAI RAMESHBHAI	8.67
3	130610119057	SHARMA ABHISHEK SUNILKUMAR	8.5

Training attended by Student

Sr. No	Name of Industry	Date	Duration	No. of Student
1	WINDSOR MACHINES LTD	IDP	7 & 8 SEM	4
2	GUJARAT APOLLO INDUSTRIES LTD	IDP	7 & 8 SEM	3

Faculty/staff training/seminar/conferences attended

Sr. No	Name of Faculty	Training	Name of Institute/Organizer	Duration	
				From	To
1	Prof.V.D.Patel	EFFECTIVE TEACHING SKILL USING MODERN DIGITAL TECHNIQUES	KD POLYTECHNIC, PATAN	17-10-2016	28-10-2016
2	Prof.V.D.Patel	COMPUTER AIDED ENGINEERING USING NX	GEC, PATAN	07-11-2016	19-11-2016
3	Prof.A.B.Patel	Short Term Course on “Developing Entrepreneurship Skills”	NITTTR, Ext. Centre, Ahmedabad	04-07-2016	08-07-2016
4	Prof.N.A.Patel	CATIA for Mechanical Engineering	NITTTR, Ext. Centre, Ahmedabad	28-11-2016	02-12-2016
5	Prof.A.D.Patel	Recent Trends in Automation & Control	Government Engineering College Patan	24-10-2016	28-10-2016
6	Prof.A.R.Chaudhari	Recent Trends in Automation & Control	Government Engineering College Patan	24-10-2016	28-10-2016
7	Prof.P.N.Boka	Recent Trends in Automation & Control	Government Engineering College Patan	24-10-2016	28-10-2016
8	Prof.P.N.Boka	Computer Aided Engineering Using NX	Government Engineering College Patan	07-11-2016	19-11-2016
9	Prof.A.K.Patel	Developing Entrepreneurship Skills	NITTTR, Ext. Centre, Ahmedabad	04-07-2016	08-07-2016

Research Publications

International Journal publications:

Author : Prof. (Dr.) J A Vadher

- 1. CFD Analysis of centrifugal compressor using Ansys**, International Journal of Engineering Science and Futuristic Technology (IJESFT), Volume 2 Issue 10, November-2016, Impact factor: 3.885

International Conference publications:

2. **Optimization of Green sand casting process parameters by Artificial neural network**, Trends in Mechanical Engineering& Technology, VOL 6 ISSUE 2, Page no. 75-80, **2016**
3. **Mathematical Modeling centrifugal compressor for process industry**, International Journal of Engineering Science and Futuristic Technology(IJESFT) November-**2016** Volume 2 Issue 10, Impact Factor: 3.885
4. **Minimizing the sand casting defects using Taguchi method**, Trends in Mechanical Engineering& Technology, VOL 6 ISSUE 3, **2016**
5. **A Furan No-Bake Binder System Analysis for Improved Casting Quality**, International Journal of Metal casting, ISSN 1939-5981, Inter Metal cast: DOI 10.1007/s40962-016-0059-x, Springer, **2016**
6. **Identification and Quantification of Gases Releasing From Furan No Bake Binder**, ARCHIVES of FOUNDRYENGINEERING, Published quarterly as the organ of the Foundry Commission of the Polish Academy of Sciences, ISSN (1897-3310) Volume 16 Issue 3/**2016** Page No. 5 – 10.
7. **Parametric analysis on compressive strength of furan no bakes mould system using ANN**, ARCHIVES of FOUNDRY ENGINEERING, Accepted for publication, June 07, **2016**, AFE-00020-2016-03
8. **Eco friendly Foundry Sand Binders: A Review**, Trends in Mechanical Engineering & Technology, ISSN: 2231-1793(online), ISSN: 2347-9965(print), Volume 6, Issue 2, www.stmjournals.com (STM Journals, **2016**).

Department Activities

Expert Lecture Session

- An expert lecture was arranged on “Apron Mechanism in Lathe Machine” and it is delivered by Prof Anand S. Patel, (Former) Assistant Professor. Mechanical Engineering Department, Institute of Diploma Studies, Nirma University, Ahmedabad on 17/07/2016. 68 students were benefited from it
- An expert lecture was arranged on “CMM for Reverse Engineering” and it is delivered by Prof Anand S. Patel, (Former) Assistant Professor. Mechanical Engineering Department, Institute of Diploma Studies, Nirma University, Ahmedabad on 17/07/2016. 65 students were benefited from it
- An expert lecture was arranged on “Inventor for Designing” and it is delivered by Mr. Mukesh Yogi, Director, Sai CAD, Patan on 21/07/2016. 71 students were benefited from it

Industrial Visit

Sr. No.	Name of Industry	Day	Semester
1	Apollo Techno Equipments Ltd, Mehsana	30/7/2016	7
2	COE, GEC PATAN	19/8/2016 20/8/2016	5
3	COE, GEC PATAN	10/8/2016	7
4	INDO GERMAN TOOL ROOM AND ENERGY MACHINES, AHMEDABAD	16/8/2016	7

Achievements

Visit of the place by of Prof (Dr.) J A Vadher, Head of Institute and Motivating the students whose project is selected in CiC3 competition organized by Gujarat Technological University, Ahmedabad



Sr. No.	Enrollment Number	Name of Student	Name of Event	Place	Date	Outcome
1	150610119022	CHIRAG GOSAI	PRAXES 2016 (LAN GAME)	GEC PALANPUR	14-15 SEP 2016	1 ST RANK
2	150610119047	FAISAL KHAN PATHAN	PRAXES 2016 (QUIZ COMPETITION)	GEC PALANPUR	14-15 SEP 2016	1 ST RANK