Department of Mechanical Engineering Government Engineering College - Dahod

News letter

(July 2021 to December-2021)

Affiliated to Gujarat Technological University (GTU)

Dept. of Higher and Technical Education, Gujarat State



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BOOK POST

To,

FROM THE DESK OF THE HOD

Its overwhelming to witness Mechanical Department of the Government Engineering College Dahod releasing its Issue of the Newsletter. The articles and Ninth achievements of the faculty and students of the college is commendable. A committed team of professors and enthusiastic students of the department have made the academic year 2021 memorable by having a bunch of professional activities and progress. 2022 brings its own set of challenges and opportunities. The possibility of Omicron wave hitting the nation is a serious issue and as an institute we will make sure we are well equipped to tackle the possible challenges of the possible third wave without compromising the professional and academic activities for the welfare of the students. I hope that the list of events catalysis the success in the coming years.

Dr. D. R. Shah H.O.D. Mechanical Engineering Department (January-2022)



Institute Vision

To be a value based engineering institute to disseminate globally acceptable education and to nurture research, innovation and entrepreneurship.

Institute Mission

- 1. To provide quality education in engineering disciplines through creative balance of academic and extra-curricular activities.
- 2. To provide learning environment for innovation and entrepreneurship.
- 3. To disseminate ethical values, social values and sensitivity towards environmental issues.

Department Vision

The Mechanical Engineering Department endeavors to be recognized for quality education and research, leading to well qualified innovative mechanical engineers having essential technical, managerial and entrepreneurial skills.

Department Mission

- 1. Developing essential technical and managerial skills of the students by imparting fundamental knowledge of engineering and its practical applications through qualified, trained and experienced faculties.
- 2. To enhance the creative and innovative skills of the students by providing state-of-the-art infrastructure and teaching-learning environment and encouraging them for development activities and higher education through research.
- 3. To provide a collaborative environment establishing links with industries that stimulate faculty and students with opportunities to create, analyze, apply and disseminate knowledge.
- 4. To encourage the students for life-long learning, ethical values and entrepreneurial culture for industrial and societal needs.

Program Educational Objectives (PEOs)

PEO-01: Apply knowledge of science, mathematics, technology, engineering, management, humanities and various other interdisciplinary subjects to identify and address the technical and societal problems.

PEO-02: Enhance their intellectual and analytical abilities in taking initiatives and/or develop innovative ideas for technological and professional growth as a technocrat / an entrepreneur in mechanical and allied disciplines.

PEO-03: Work effectively as a team member or lead multidisciplinary teams while demonstrating the interpersonal & management skills and ethical responsibilities.

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Training taken by the faculty

Sr. No.	Name of Faculty	Training taken	Duration
1	Prof. Y. B. Chauhan	one week STTP(online) on "Innovative Teaching Methods" organized by NITTTR- Bhopal	05/07/21 to 09/07/21
2	Prof. B. N. Gelot	Gelot one week STTP(online) on "Innovative Teaching Methods" organized by NITTTR- Bhopal	
3	Dr. P.K.Brahmbhatt	one week STTP(online) on "Innovative Teaching P.K.Brahmbhatt Techniques for Mechanical Engineering" organized by NITTTR- Bhopal	
4	Prof. N. R. Sheth	one week STTP(online) on "Innovative Teaching Techniques for Mechanical Engineering" organized by NITTTR- Bhopal	12/07/21 to 16/07/21
5	Prof. B. K. Chavda One week on line FDP on Metallurgical Testing & Failure analysis of metals.		13-9-2021 to 17-9-2021
6	Prof. B. K. Chavda Six day virtual FDP on " ME8594 Dynamics of Machine".		26-7-2021 to 31-7-2021
7	Prof. N. H. Prajapati	NPTEL4 week online courses on "Our Mathematical Senses Part 1: Geometry of Vision"	4 week course (Aug- Sep 2021)
8	Prof. N. H. Prajapati NPTEL8 week online courses on "Mechanics and Control of Robotics Manipulators".		8 week course (Aug- Oct 2021)
9	Prof. M.Y.Patil Dr. N.S.Mehta Prof. Y.B. Chauhan Prof. N.R. Sheth Prof. K.K. Bhabhor	A One Week Online Faculty Development Programme (FDP) on "Current Field Practices for Energy and Utility Systems" Sponsored by AICTE Training and Learning (ATAL) Academy, AICTE, New Delhi, organized by Mechanical Engineering Department, GEC, Dahod.	6-12-2021 to 10-12-2021
10	Dr. D.B. Jani	09-08-2021 to 13-08- 2021	

Achievements and activities of the department

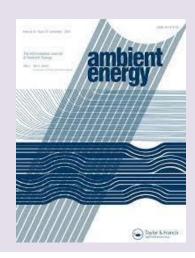
- ❖ A webinar on "Information about NBA (National Board of Accreditation) is given to students of GEC, Dahod by Prof. N S Mehta on 17-07-2021.
- ❖ ISHRAE Chapter Dahod meeting organized among 20 members of ISHRAE with Prof. D. B. Jani, Prof. N. S. Mehta and Prof. P. M. Gautam on 26-7-2021.
- Mr. Sondagar Krunal Mahendrakumar (190180119068) Conducted seminar on Personal Finance on 3–7-2021 and 12-8-2021.
- The webinar is organized on topic of "Steam Turbine and Steam Technology-Overview" by Shri Dinanath Akela, Manager Operations, Combined Cycle Power Plant Reliance Industries Ltd, Haziraby Mechanical Engineering Department, GEC Dahod on 04-09-2021.
- * "Teachers day" was celebrated by Mechanical Engineering, GEC, Dahod on 04-09-2021.
- ❖ Mr. Kalyan Pandey (190180119037) student of Mechanical Engineering of G.E.C., Dahod stood on 3rd position in singing in the event Zaverchand Meghani Spardha conducted by GEC, Dahod on 03-09-2021.
- ❖ Mr. Kalyan Pandey (190180119037) student of Mechanical Engineering of G.E.C., Dahod stood on 1* position in the event of "National Shayar Shri Zaverchand Meghani 125th Birth Anniversary Singing Competition" organized by Gujarat Technological University, Ahmedabad on 17-09-2021.
- Mr. Kalyan Pandey (190180119037) student of Mechanical Engineering of G.E.C., Dahod stood on 3rd position "Aazadi ka Amrut Mahotsav" organized by Knowledge Consortium of Gujarat, Department of Education, Government of Gujarat during 28-09-2021 to 01-10-2021.
- ♦ Mr. Sondagar Krunal Mahendrakumar (190180119068) discussed live on youtube https://youtu.be/73L5F1NrW0Q on topic "Mutual funds क्यों है जरूरी?" on 21 12 2021.
- ❖ Dr. D.B. Jani, Associate professor in mechanical engineering department published book entitled "Renewable Energy Systems", Copyright © 2021 Elsevier Inc. ISBN 978-0-12-820004-9.
- ❖ Mr. Prajit Kaboo student of 7th semester B.E. Mechanical is awarded certificate of appreciation for valuable contribution to the occasion of "GYAN SHAKTI DIWAS" held on 1th August, 2021.

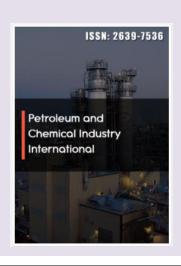


Research publications by the faculty& Students

Sr. No.	Name of Faculty	Publication title	Journal/Book
1	Prof. Kiran K. Bhabhor.	Performance analysis of desiccant dehumidifier with different channel geometry using CFD.	Journal of Building Engineering, Elsevier, Volume 44, October 2021
2	Prof. N. S. Mehta	Extraction of algae biodiesel from algae used as fuel for power generation and transportation.	"Abhiyanta Bandhu" magazine published by Indore local center, The Institution Engineers (India)
3	Dr. D.B. Jani	Experimental Investigation of Friction stir Welding Using Hybrid Alloys.	International Journal of Advanced Research in Science, Communication and Technology, Vol. 6(1), 352-360. Date: 13-06-2021.
4	Dr. D.B. Jani	TRNSYS simulation of desiccant integrated hybrid cooling and dehumidification system.	Petroleum and Chemical Industry International, Vol. 4(3), 63-66. Date: 20-11-21.
5	Dr. D.B. Jani	Experimental investigation of solid desiccant wheel in hot and humid weather of India.	International Journal of Ambient Energy, https://doi.org/10.1080/014 30750.2021.1999326 Date: 23-11-2021.







Achievements and activities of the department





દાહોદમાં પાંચ દિવસીય ફેકલ્ટી ડેવલપમેન્ટ પ્રોગ્રામ સંપન્ન

દાહોદ, દાહોદની સરકારી ઇજનેરી કોલેજના મિકેનિકલ વિભાગ દ્વારા વિદ્યાર્થીઓના વિકાસ સાથે પ્રોફેસરના જ્ઞાનમાં વધારો થાય તે હેતુથી કરંટ ફિલ્ડ પ્રેક્ટીશસીસ ફોર એનર્જી એન્ડ યુટિલીટી સિસ્ટમ વિષય ઉપર પાંચ દિવસીય ફેકલ્ટી ડેવલપમેન્ટ પ્રોગ્રામ ગત અઠવાડિયે યોજાયો હતો. જેમાં ભારતની નામાંકિત ટેકનોલોજીકલ સંસ્થાઓ, ઉદ્યોગો તેમજ સંશોધક સંસ્થાઓના વિષય નિષ્ણાંતો તથા વિદેશના રિસર્ચર દ્વારા હાલ એનર્જી પ્રોડક્શન તથા યુટીલીટી સંબંધિત સિસ્ટમોમાં પ્રવર્તમાન પદ્ધતિઓ તથા થઇ રહેલા સંશોધનો વિશેની જાણકારી ઓનલાઇન મોડ પર આપવામાં આવી હતી. આ ફેકલ્ટી ડેવલપમેન્ટ પ્રોગ્રામનું આયોજન પ્રો. ડી.આર.શાહ તેમજ પ્રો. પી.કે.બ્રહ્મભક્રના માર્ગદર્શનમાં કરાયું હતું. આ કાર્યક્રમમાં આઇઆઇટી દિલ્હીના પ્રો. વિરેન્દ્ર વિજય મુખ્ય અતિથી તરીકે ઉપસ્થિત રહ્યાં હતા. આ કાર્યક્રમમાં મોટી સંખ્યામાં અધ્યાપકો, સંશોધકોએ ભાગ લીધો હતો.



- Department of Mechanical Engineering, Government Engineering College Dahod organized One Week Online Faculty Development Programme (FDP) on "Current Field Practices for Energy and Utility Systems" (Sponsored by AICTE Training and Learning (ATAL) Academy, (AICTE), New Delhi) 6-10 December, 2021.
- NSS Cell, GEC Dahod has organized a Painting and Poster making competition on 2nd October under "Azadi ka Amrit Mahotsav." Students of Mechanical Engineering, GEC, Dahod also participated in the competition.
- NBA Mock visited on 20 &21-10-2021. Prof. U V Shah, Professor Mechanical, GEC Modasa, Prof. Anand Dhruv, Professor Mechanical, GEC, Patan, Prof. Ketan Badgujar, Professor, Electrical, SSEC, Bhavnagar and Prof. Parin Shah, Professor, Chemical, LDCE, Ahmedabad were present during NBA Mock visit.

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GTU Result Corner

GTU Resultof Government Engineering College, Dahod of May, 2021 Examination

Semester	Total Students	Total Pass	Total Failed	Percentage of Pass
	appeared	Students	Students	Students
8	438	434	06	99.08
6	450	428	55	95.11
4	493	432	61	87.6
2	99	91	08	92.0

GTU Result of Mechanical Engineering Department of May, 2021 Examination

Semester	Total Students	s Total Pass Total Failed Percenta		Percentage of Pass
	appeared	Students	Students	Students
8	122	121	1	99.18
6	108	103	05	95.37
4	132	120	12	90.91
2	11	10	01	90.91

	Top 3 students CPI wise of Mechanical Engineering Department							
	GTU Result May, 2021 Examination							
Sr.	Semester	Enrolment Name of Student		СРІ	CGPA	CDI		
No		No		CPI	CGPA	SPI		
1	8	180183119006	DADI JIYAULHAK BASIRAHEMAD	8.91	9.20	10.00		
2	8	170180119062	ATEL KAUSHIKKUMAR ASHOKBHAI	8.18	8.82	9.64		
3	8	180183119026	SHAH JEEL SANDIPKUMAR	8.16	8.55	9.84		
1	6	180180119013	GUPTA RAVISHANKAR RADHESHYAM	7.74	8.09	8.30		
2	6	180180119065	PRAJAPATI DEEPKUMAR RAJESHBHAI	7.45	8.67	8.61		
3	6	180180119105	YADAV KULDEEP PURAN	7.45	8.41	8.61		
1	4	200180119510	TIWARI DHANANJAY BHUPENDRABHAI	8.57	0.00	8.48		
2	4	200180119535	ANUJ DEVENDRA MISHRA	8.28	0.00	8.65		
3	4	190180119063	SHETTY BHAVYA KRISHNA	8.11	0.00	8.30		
1	2	200180119001	PANKAJ KUSHWAHA	8.67	0.00	8.59		
2	2	200180119005	PARMAR SHUBHAM SANTOSH 8.26		0.00	8.68		
3	2	200180119008	PATHAK HIMANSHU DHIREN	8.15	0.00	8.00		

Placement of students

Sr. No.	Enrolment no	Name of Students	Company Detail
1	Nayaka Samir Rajesh	160180119041	PETForm Technologies Pvt. Ltd
2	Khatri Mihir Harishkumar	170180119031	Cryogas Equipment Pvt. Ltd
3	Singh Aditya Santoshkumar	170180119099	NATS: Board Of Apprenticeship Training/ Board Of Practical Training
4	Singh Nikhil	170180119103	Tema India Ltd. Mumbai
5	Saroj Rahul R	170180119093	Weavetech Engineers Ltd. Surat
6	Ashishkumar R Shah	170180119095	Collabera Technologies Pvt. Ltd. Vadodara
7	Mahavar Yatindra B.	180183119011	Council Of Scientific And Industrial Research, Bengaluru
8	Panchal Akshaykumar	170180119047	Nobel Automotive India Pvt. Ltd.
9	Abhimanyu Rai	170180119084	Collabera Technologies Ltd. Vadodara
10	Vaibhav Lad	170180119036	Investa Pumps Pvt. Ltd., Gundlav (Valsad)
11	Aniket Pawar	170180119080	Shilchar Technologies Ltd. Vadodara
12	Shaikh Moh Vajid Z.	170180119096	Ratnam Energy Pvt. Ltd.
13	Rahul Tripathi	170180119118	Weave tech Pvt. Ltd. Surat
14	Shivam D. Yadav	180183119031	CSIR National Aerospace Laboratories, Bengeluru