


GIDC DEGREE ENGINEERING COLLEGE

FACULTY PROFILE

	Name of Teaching Staff	Hitesh C. Rana			
	Designation	Assistant Professor			
	Department	Mechanical Engineering			
	Date of Joining	13 th July 2018			
	Qualifications with Class/Grade	UG	PG	PhD	
		8.41 (CGPA)	8.72 (CPI)	Pursuing	
	Total Experience in Years	Teaching	Industry	Research	
		6 Year	1 Year		
	Area Of Interest	Machine Design, Mechanics of Material, Mechanism Design, Fracture Mechanics, Composite Materials			
	Papers Published in Journals	National	-	International	02

	Detail Of Publication	<ol style="list-style-type: none"> 1. Multi objective optimization in drilling of glass fiber/epe foam sandwich composite based on grey relational analysis, Reliability: Theory & Applications, RT&A, Special Issue No 1 (60) Volume 16, January 2021 2. Design Improvements of Theo Janson Mechanism, International Journal for Scientific Research and Development, ISSN 23210613 Volume 7, Issue 4, June-2019 			
	Papers Presented in Conferences	National	01	International	-
	STTP/WORKSHOP/ CONFERENCE / SEMINAR Organized or Participated	<ol style="list-style-type: none"> 1. Faculty Development Program for Student Induction (FDP-SI) organized by AICTE 2. FDP on Process Optimization using Design of Experiments, organized by RNGPIT 3. FDP on “Sustainable Village Development and Unnat Bharat Abhiyan” organized by SVNIT, Surat 4. ATAL AICTE FDP on "Mechanics of Composite Materials and Structures" at M.B.M. Engineering College, Faculty of Engineering and Architecture, J.N.V. University, Jodhpur 5. ATAL AICTE FDP on "Climate Sciences" at GITAM (Deemed to be University) 6. ATAL AICTE FDP on "Metallurgical Testing and Failure Analysis of Metals" at GIDC Degree Engineering College, Abrama, Navsari 7. AICTE-GTU Sponsored Online Faculty Development Programme on “Design, Drafting and Analysis of Industrial Piping System” at GIDC Degree Engineering College, Abrama, Navsari 8. STTP on Fundamentals of mechanics of materials organized by C. K. Pithawala College of Engineering & Technology, Surat 9. STTP on “Applications of PLC & SCADA in Industrial Automation” Organized by GIDC Degree Engineering College, Abrama-Navsari 10. STTP on Design, Modelling and Simulation of Advanced Composite Structures using FEM Software (MATLAB, ABAQUS and ANSYS) organized by Sardar Vallabhbhai National Institute of Technology, Surat 11. Workshop on “Energy conservation Awareness” organized by Gujarat Energy Development Agency, GIDC Degree Engineering College, Navsari 12. Workshop on Unnat Bharat Abhiyan at IIT Gandhinagar 13. Online National workshop on “Enabling self-reliant Economy through Techno-social innovation in a perspective of post COVID-19 rural India” organized by UBA Cell, MCT’s Rajiv Gandhi Institute of Technology, Mumbai 14. Workshop on “Inculcating Universal Human Values in Technical Education”, organized by AICTE 			

		<p>15. Webinar on "Fracture based design philosophy" by RNGPIT</p> <p>16. Introduction to Finite Element Analysis organized by Mechanical Engineering Department, RNGPIT</p> <p>17. Overview of Meshing in ANSYS organized by Mechanical Engineering Department, RNGPIT</p> <p>18. Research as a Profession for Engineers organized by Mechanical Engineering Department, RNGPIT</p> <p>19. Webinar on "A Special case of Linear programming Problems: Transportation Problems" by PACIFIC SCHOOL OF ENGINEERING</p> <p>20. Webinar titled "Essential Skills for Jobs in a Post-COVID19 World" organized by TATA TPSDI Virtual academy of skills</p> <p>21. An effective technical way of writing reports and ppts. Via Latex organised by Science & Humanities Department, RNGPIT</p> <p>22. webinar on 'Government's start-to-scale programs for innovators and entrepreneurs' By Ms. Poyini Bhatt, CEO, SINE IITB, organized by i-Hub, Gujarat</p> <p>23. Webinar on 'Business Model Canvas' By Rajiv Indimath, organized by i-Hub, Gujarat</p> <p>24. Mechatronics- Future of tomorrow, organized by MED of R. N. G. Patel Institute of Technology</p> <p>25. Role of Technologies in Rural Areas for Skill Development, Livelihood for Atmanirbhar Bharat organized by SPIU-UP, AKTU, Unnat Bharat Abhiyan and IEI</p> <p>26. GATE guidance for Mechanical Engineering Students organized by Mechanical Engineering Department, RNGPIT</p> <p>27. Webinar titled "Opportunities in Solar - Becoming #aatmanirbhar" organized by TATA TPSDI Virtual academy of skills</p> <p>28. "Participate in Unnat Bharat Abhiyan for Sustainable Development of the Villages" hosted by Gujarat Technological University and Organized by Regional Coordinating Institute IIT Gandhinagar and SVNIT, Surat</p> <p>29. Webinar on "Wellness Through Alternative Therapy" organized by UBA Cell, SVNIT, Surat</p>
	FDP/Workshop/STTP coordinated	<p>1. Co-coordinated ATAL AICTE FDP on "Metallurgical Testing and Failure Analysis of Metals" at GIDC Degree Engineering College</p> <p>2. Co-coordinated GTU AICTE FDP on "Design, Drafting and Analysis of Industrial Piping System" at GIDC Degree Engineering College</p> <p>3. Coordinated and delivered in three-week short-term training program on "Value</p>

		<p>Adding Course on Solidworks” at GIDC Degree Engineering College in June 2022.</p> <p>4. Coordinated and delivered in three-week short-term training program on “Value Adding Course on Solidworks” at GIDC Degree Engineering College in July 2023.</p>
	Projects Guided	<ol style="list-style-type: none"> 1. Optimization of theo Jason mechanism 2. Self-balancing bike 3. Drill depth measurement with Arduino 4. Level indicator with Arduino
	Books Published / IPRs/ Patents	
	Professional Memberships	
	Consultancy Activities	
	Awards	<ol style="list-style-type: none"> 1. Best Paper Award for “Crack Propagation Analysis of Composite Material using XFEM Approach” in Progress, Research and Innovation in Mechanical Engineering (PRIME 2017) (National Conference) 2. Successfully cleared GATE 2015 examination 3. Successfully cleared GATE 2018 examination
	Grants Fetched	
	Interaction with Professional	

	Institutions	
	Industrial Training	1. Successfully completed 15 days industrial training at LEISTERTECH, Ahmedabad (06-20 November, 2021)
	Completed Online Courses	2. "Introduction to Engineering Mechanics" on Coursera 3. "Application of Engineering Mechanics" on Coursera 4. "Mechanics of Materials I: Fundamentals of Stress & Strain and Axial Loading" on Coursera 6. "Mechanics of Materials II: Thin-Walled Pressure Vessels and Torsion" on Coursera 8. "Digital Manufacturing & Design" on Coursera 9. Completed the module "Writing a persuasive cover letter for your manuscript" by Research Academy, Elsevier 10. Completed the module "10 reasons to get – and use – an ORCID iD" by Research Academy, Elsevier 11. Completed the module "Guide to reference managers: How to effectively manage your 12. references" by Research Academy, Elsevier 13. Completed the module "How to prepare your manuscript" by Research Academy, Elsevier 14. Completed the module "Structuring your article correctly" by Research Academy, Elsevier 15. Completed the module "How to write an abstract and improve your article" by Research Academy, Elsevier 16. "Learn to Design your own Solar Home System" by Energy swaraj foundation 17. Completed NITTT Module 1 Orientation Towards Technical Education and Curriculum Aspects

		<p>18. Completed NITTT Module 2 Professional Ethics & Sustainability</p> <p>19. Completed NITTT Module 3 Communication Skills, Modes & Knowledge Dissemination</p> <p>20. Completed NITTT Module 4 Instructional Planning and Delivery</p> <p>21. Completed NITTT Module 5 Technology Enabled Learning & Life Long Self Learning</p> <p>22. Completed NITTT Module 7 Creative Problem Solving, Innovation and Meaningful R & D</p> <p>23. Completed NITTT Module 8 Institutional Management & Administrative Procedures</p>
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