


# GIDC DEGREE ENGINEERING COLLEGE

## FACULTY PROFILE

	Name of Teaching Staff	TANDEL DAKSHKUMAR RATILAL			
	Designation	ASSISTANT PROFESSOR			
	Department	MECHANICAL			
	Date of Joining	1-7-2013			
	Qualifications with Class/Grade	UG	PG	PhD	
		FIRST	DISTINCTION	CONTINUE	
	Total Experience in Years	Teaching	Industry	Research	
		11	2		
	Area Of Interest	REFRIGERATION AND AIR CONDITIONING,ENERGY STORAGE			
	Papers Published in Journals	National	2	International	5

	Detail Of Publication	<p>1 Taguchi Approach for Parametric study in plasma arc machining of SS 410 /International Journal for Scientific Research and Development 2016.</p> <p>2 Air multiplier with air cooling system/ Journal for Research April 2018.</p> <p>3 Design analysis And fabrication of manual rice transplanting Machine /Journal for Research March 2018.</p> <p>4 Development of Solar Heating system by use of Fresnel lens for Stirling Engine /International Journal for Scientific Research and Development 2019.</p> <p>5 Design and Development of Rice Threshing and Winnowing Machine Journal for Research May 2019.</p> <p>6 Comparative Study of Friction &amp; Wear behavior with different materials of Segmented Piston Ring Cylinder Liner of I. C. Engines using LRT (Linear Reciprocating Tribometer) /International Journal of Innovative Knowledge Concepts, 2018</p> <p>7 Multi-response Optimization for Sustainable Turning of Ti-- 6Al--4V Alloy Using Taguchi-DEAR Methodology/Recent Advances in Manufacturing Modelling and Optimization, 2022, pp. 275–288.</p>			
	Papers Presented in Conferences	National	5	International	
	STTP/WORKSHOP/ CONFERENCE / SEMINAR Organized or Participated	<p><b>STTP/WORKSHOP/CONFERENCE / SEMINAR Organized</b></p> <p>1 STTP “Modeling and simulation of mechanical systems using solidworks”</p> <p>2 Webinar 1)Career opportunities for engineering students 2)HVAC system and its type</p> <p>3 seminar on ANSYS Workbench on 21 september 2022</p> <p>4 Workshop –Hands on Patent drafting on 29 th April 2023</p> <p>5 Expert lecture-CNC Machines and its development on 11<sup>th</sup> sep 2023</p> <p><b>STTP/WORKSHOP/CONFERENCE / SEMINAR participated</b></p> <p>1) Fundamentals of Tribology / Navsari / GIDC Degree Engg.College,Abrama</p> <p>2) Solar Energy Technology / Mehsana / GPERI</p> <p>3) Faculty development program/SEP-13(for 14-15)/GTU</p>			

		4) Solidworks/20-7-15 to 30-9-15/E CAD/CAM solution 5) 29 TH PATENT CLINIC/2 DAY/19-20/6/17/GTU 6) 2 EXPERT SESSION ON “HOW TO CREATE BUSINESS PLAN/1DAY/20/6/18/GTU 7) Refresher course on“Energy efficiency in HVAC system”/7-2-2020 SRICT-Vataria and ISHRAE Surat chapter 8) VRF system basics by V.Manjunath/16-5-2020 ISHRAE(Webinar) 9) Career in Sustainable Building Industry/29-5-2020/ ISHRAE(Webinar) 10) Energy efficiency in HVAC/23-5-2020/ Udemy 11) NPTEL Online 8 week course on Fluid Mechanics 12) Completed Online industrial training and internship on “Li ion battery pack-design modelling safety”. 13) Completed Industrial training at Hariom Aquaculture from 31/10/21 to 14/11/21 14) 2/ 2021-22 Completed ATAL FDP on Design Thinking from 31-12-21 to 4-1-22.
	Projects Guided	More than 20
	Books Published / IPRs/ Patents	--
	Professional Memberships	ISHRAE,SAE
	Consultancy Activities	--
	Awards	--

	Grants Fetched	<p>1) Design and development of AC operated on solar based VAR cycle.-SSIP-As mentor.</p> <p>2) Development and testing of Trike loader with rear hub motor-SSIP-As mentor</p>
	Interaction with Professional Institutions	--