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Contact No:	+91 9924916499
Ph.D. Guided:	15
M.Tech. Guided: UG Guided	78 103
Projects	<ol style="list-style-type: none"> 1. Modernization CAD Lab MODROB scheme -MHRD (1999) RS 10 Lakh 2. Prediction of Machine Setting Parameters and Roller Configuration for Continuous Bending of Conical Shells -DST (2007) Rs 27.9 Lakhs 3. Roller bending machine for continuous bending of blanks in to constant and varying cross section shells/sections TEQIP (2009) Rs.1.5 lakhs 4. Project on the design, development and demonstration of an aerodynamically advanced un manned air vehicle for stealth and heavy payload application (2018) Rs 5.93 Cr 5. Development of Hybrid Fiber metal laminate SERB (2024) Rs 32 lakhs
Institutional Projects	<ol style="list-style-type: none"> 1. TEQIP-I (2006-2010) 24 Cr- Nodal officer procurement 2. TEQIP-II (2011-2017) 17 Cr- TEQIP Coordinator 3. TEQIP-III (2017-18) 7 Cr – TEQIP Coordinator 4. Anchor Institute Cell (2018-2020)- 10 Cr- Co Chairman 5. TBI (2021-2023) 4 Cr –NIDHI -DST Professor in charge Research Park 6. SSIP – II (2023-24) 2 CR- Professor in charge Research Park
Administrative Responsibilities	<ol style="list-style-type: none"> 1. Chairman/ Co chairman Annual Report (2015-18) 2. Workshop in charge (2018-19) 3. Associate Dean (R&C) (2018-2019) 4. Dean (R&C) (2019-2021) 5. Chairman Centre of Continuing Education (2019-2022) 6. Coordinator for ATAL Programme (2019-22) 7. Professor in charge Research Park– ASHINE (Director) (2021-23) 8. Head of Department (2023 till date)
PG In charge	M.Tech: IPED M.Tech: CAD CAM
Section I/C	Design section of department

Book Chapter	<ol style="list-style-type: none"> 1. Agricultural Biomass based Potential Materials- Springer, PP 51-72 Title of chapter: “Natural Fiber reinforced Composites: Potential, Applications, and Properties 2. Stress intensity factors for a plate with slant edge crack built with rapid manufacturing process Innovative design, Analysis and development practices in aerospace and automotive engineering (I-DAD 2018). Pg 353-362 	
Publications	Journal / Proceedings/Conference	
	International: 81	National: 34
	Recent past Publications	
	<ol style="list-style-type: none"> 1. A numerical and experimental analysis of CO2 laser micro- milling on PMMA sheet considering a multi pass approach for microfluidic devices- Optics & Laser Technology-2024 2. Experimental and analytical modeling for channel profile using CO2 laser considering Gaussian beam distribution Journal of Engineering Research 2023 3. Comparative assessment of the developed algorithm with the soft computing algorithm for the laser machined depth-2023 4. Experimental investigations of channel profile and surface roughness on PMMA substrate for microfluidic devices with mathematical modelling – OPTIC -2022 5. Modification of the multiphase shape memory composites with functionalized graphene nan platelets: Enhancement of thermomechanical and interfacial properties - Materials Today Chemistry 2022 6. Hybridization of carbon fiber composites with graphene nan platelets to enhance interfacial bonding and thermomechanical properties for shape memory applications - Polymer-Plastics Technology 2022 7. Effect of size and surface area of graphene nan platelets on the thermomechanical and interfacial properties of shape memory- Polymer-Plastics Technology and Materials 2022 8. Influence of carboxyl functionalized graphene nan platelets on the thermomechanical and morphological behavior of shape memory- Composites: Mechanics, Computations, Applications 2022 	
Patent	Product: 1. ABRASIVE MATERIAL DELIVERING APPARATUS WITH PRECISE CONTROL (22/01/2021; Application No.202121003137 A Publication Date: 12/02/2021 Granted in Jan 2024) Design Registration: Attachment for Fused deposition molding on Fabric Application no 352747-001 (Granted : Design certificate issued on 29/12/21)	
Area of Interest	Composite material: characterization and machining, Shape memory Nano composites, Laser machining of polymer and composite, Additive manufacturing: 3d printing & LOM, CAD/CAE/ Reverse engineering	
Courses taught	1.CAD CAM 2. Mechanics of Composite Material 3.Computer Aided Tool design 4.CAE 5.Rapid Prototyping 6.Advance Tool design 7.Primary Fabrication process 8.Casting 9.Mechanical technology 10.Production Technology	
Lab Developed And I/C	1.Reverse Engineering (contact and non-contact scanning) 2.Simulation Lab	

	3. CAD Lab	
Short Term Courses/WS/ & Training Program Attended:	22	STTP/Workshops organized: 20
Expert lecture Delivered	29	
Organizing Conferences	National <ol style="list-style-type: none"> 1. National conference on Advances in Materials and Product Design (AMPD-2010) ,22-23, November 2010 at Mechanical Engg Department of SVNIT, Surat 2. National conference on Advances in Materials and Product Design (AMPD-2017) , 10-11, March 2017 at Mechanical Engg Department of SVNIT, Surat 	
	International <ol style="list-style-type: none"> 1. International conference on “Advances in Materials and Product Design” (AMPD-2015), 10-11, January 2015at Mechanical Engg Department of SVNIT, Surat 	
Consultancy	Energy Audit	Bhavin Textiles, Pandesara, Surat
	Variation in Yarn tension Problem	Garden Silk mills, Surat
	CAD Problems for Design	ESSAR STEEL , HAZIRA, SURAT
	Software Verification of Pressure vessel design (1)	CAD House, Surat
	Software Verification of Pressure vessel design (2)	CAD House, Surat
	Geometric modeling and finite element analysis of Fuel accumulator of MIG29	Indian AirForce , OJHAR, NASIK
	Bhatar Bio Gas plant Penalty issue	SMC, surat
	Tpi OF 300 Buses /Body building works	SMC, surat
	Consultancy for Analysis of performance and maintenance of 1MWE Sewage plant at Singapore, Karanj and Bhatar	SMC, surat
	Performance Evaluation of Bio Gas Power Plant and Fact Finding and making suggestions at Bhatar Sewage Treatment Plant Surat	SMC, surat
	SMC Swiping machine TPI	Global waste management P. Ltd, Mumbai
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	Simulation of Design for Thermo	KANANI Industries, surat

	mechanical aspect in diamond Machine	
	UBC crane design – Vetting of design	
Reviewer	Indian journal of science & Technology, Journal of STRUCTURE, Engineering Failure Analysis, Natural fiber, Composite interface, Composite communication, Polymer, Cement composite, Thin wall structure	
Ph.D. Thesis Evaluation	JNTU – Hyderabad, JNTU-Kukatpally, JNTU-Anantpur, MNIT- Jaipur, MNNIT Allahabad, Sardar Patel university, Osmania University Hyderabad	

