



Dr. HARSHADKUMAR

Ph.D. in Engineering and Technology
(Mechanical Engineering)

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CAREER OBJECTIVE

To work in a challenging environment demanding all my skills and efforts to explore and adapt myself in different practical fields and realize my potential where I get the opportunity for continuous learning.

FIELD OF SPECIALIZATION

Computer Aided Design, Computer Aided Manufacturing, Unconventional Machining, Automation, Robotics, Machine CNC Programming, IoT, Coding, Hydraulic, Pneumatic

IPR REGISTRATION

- **Granted Patent:** Strip Electric Discharge Machine for Turning Operation
Patent No. 417308, Date-09 January, 2023
Application No. 202023033474, Date-5 Aug, 2020
- **Granted Patent:** Wire Electrical Discharge machining in Turning Operation
Patent No. 416742, Date-04 January, 2023
Application No. 201921014967, Date-14 April, 2019
- **Granted Design:** Slot for Moving Supports of Bending Test Apparatus
Application No. 317529-001, Date-07 May, 2019
- **Granted Design:** Support Structure For Fire Extinguishing System Pump on the Tractor
Application No. 381796-001, Date-20 March, 2023
- **Granted Design:** Mixer Blade for Garlic Peeling
Application No. 383235-001, Date-07 April, 2023
- **Granted Design:** Portable Armrest for Seat of Bus
Application No. 405896-001, Date-29 January, 2024
- **FER Generated Patent:** Motorbike Health Monitoring and Mentoring System
Application No. 201921031452, Date-03 August, 2019
- **FER Generated Design:** Jar with IOT Connectivity.
Application No. 446233-001, Date-31 January, 2025
- **FER Generated Design:** Motorized Wheelchair
Application No. 317848-001, Date-20 May, 2019

EXPERIENCE

Assistant Professor

July 2022-Present

- **Institute-** Ganpat University, Mehsana (N.G.)
- **Subjects Taught** – CAD, CAM, FMD, Solidwork
- **Portfolios** – Robocon Event Coordinator, NBA Criteria-3 Coordinator, Department website coordinator, Proctor, Admission committee member etc.

Project Manager**Jan 2021-July 2022**

- **Company- GoalDone Solution, Kadi, Mehsana (N.G.)**
- **Portfolios** – Industrial IT solution, Design work in CAD Software (Creo and Solidwork), Workforce handling, Automation work

Senior Engineer (Part time)**Sep 2011- Jan 2021**

- **Company- GoalDone Solution, Kadi, Mehsana (N.G.)**
- **Portfolios** – Project managing, Design work in CAD Software (Creo and Solidwork), Workforce handling, Automation, Machine software development

Assistant Professor**Sep 2011-Jan 2021**

- **Institute- Smt. S. R. Patel Engineering College, Unjha (N.G.)**
- **Subjects Taught** - CAD, CAM, Control, OHP, IOT, MP, EG, MOS
- **Portfolios** – Project coordinator, Student workshop coordinator, UDISHA coordinator, SSIP coordinator, ROBOCON faculty coordinator, Department website coordinator, Admission committee member etc.
- Placement officer -Training and placement cell for two years 2012-13

Lecturer**Feb 2009-Nov 2010**

- **Institute- K. D. Polytechnic, Patan (Government Polytechnic)**
- **Subjects Taught** - EG, MOS, CAD, CAM etc. to GTU, TEB and MPEC students.
- Also, I am worked in different committees like Admission process, Community department, CCC/CCC+ Exam etc.

Production Engineer**Jun 2008-Nov 2008**

- **Company-Man Industries, Anjar**
- It is a leading manufacturer and exporter of large diameter Carbon Steel Line Pipes for various high pressure transmission applications for Gas, Crude Oil, Petrochemical Products and Potable Water.
- I worked in HSAW line on tab section. 12 welder and 6 grinder man are work under me.

MEMBERSHIP OF PROFESSIONAL BODIES

- Life Member, Indian Society for Technical Education (ISTE)
- Life Member, International Association of Engineers (IAENG)
- Life Member, The society of mechanical & automotive engineers (SMAE)

ACADEMIC RECORD

Degree	Institute	University	Result	Year
Post-Ph.D.	Singapore Institute of Technology	Singapore's University of Applied Learning	Pursuing	2025-till now
Ph.D.	Ganpat University, Gujarat	Ganpat University, Gujarat	Awarded	2014-2020
M. Tech	U. V. Patel College of Engineering, Kherva	Ganpat University, Gujarat	CGPA - 7.88	2010-2012
B.E.	Government Engineering College, Bhuj	K.S.K.V. Katchchh University	71.00	2004-2008

AWARDS/PRIZES/CITATIONS

- Awarded Global Faculty Award 2023 given by AKS Worldwide Pvt. Ltd. in Nov 2023
- My Society (Shri Utar Dashkoie Kadva Patidar Education Trust, Ahmedabad) awarded me for owner of Ph.D in Feb 2023.
- 2nd Best Faculty Award given by SRPEC, Unjha for year 2018-19.
- 2nd Best Faculty Award given by SRPEC, Unjha for year 2017-18.
- 2nd Best Faculty Award given by SRPEC, Unjha for year 2016-17.
- Best Faculty Award given by SRPEC, Unjha for year 2015-16.
- Secured 1st rank and prize money of 2,50,000/- rupees in project fair – 2017 by SRPEC, Unjha, Project title - Automation in real time dam & canal monitoring and control system.
- Secured 3rd rank and prize money of 2,77,869/- rupees in project fair – 2017 by SRPEC, Unjha, Project title - Design and development of hydraulic training kit.
- Secured 2nd rank in “Smart villages and cities innovation challenge 2017” organized by Confederation of indian industry (CII) and Kadi sarva vishwavidyalaya. Project title - Design and development of waste bottle reverse vending machine
- Awarded for guided to project of “Technical Centerpiece for Traffic Circle at Mehsana” on 21st Oct 2015 by SRPEC, Unjha.
- Secured 2nd rank in state level technical symposium- Frolic '12 organized by darshan institute of engineering & technology, Rajkot
Project title - Computerized security system (Safe home-Rakshitalym)
- Secured 3rd rank in state level technical symposium- Frolic '12 organized by darshan institute of engineering & technology, Rajkot
Project title - Auto rain measurement
- Best research paper presentation award worth Rs. 2500/- at National level technical event “Techno Planet”, March 2012, School of engineering, RK. university, Rajkot
Paper title - Parametric analysis and mathematical modelling of MRR and surface roughness for H-11 material on wire cut EDM by D.O.E Approach
- Secured 2nd rank in national level technical event - Techno planet '12 organized by School of engineering, RK. university, Rajkot
Project title - Computerized seismograph
- Secured 1st rank in state level technical symposium- Search '11 organized by Laljibhai chaturbhai institute of technology, Bhandu
Project title - Auto missile launcher
- Secured 1st rank in national level technical event - Laa Teqnix '11 organized by L. D. college of engineering, Ahmedabad
Project title - Auto rain measurement
- My Society (Shri Utar Dashkoie Kadva Patidar Education Trust, Ahmedabad) awarded me for the 1st Rank in M. Tech. in Feb 2012.
- Secured 1st rank in national level technical event - Techno Aspire '10 organized by Vishwakarma government engineering college, Chandkheda, Gandhinagar
Project title - Computerized pick and place robot
- My Society education trust (Shree Malguru Education Trust) honored me with 1st Rank in B. E. Mechanical Engineering in 2008.
- Secured 1st rank in national level technical event - Laa Teqnix '10 organized by L. D. college of engineering, Ahmedabad

- Project title - Computerized pick and place robot
- Secured 1st rank in national level technical event - Laa Teqnix '07 organized by L. D. college of engineering, Ahmedabad
- Project title - Computerized Security System
- Secured 1st rank in national level technical event - Laa Teqnix '07 organized by L. D. college of engineering, Ahmedabad
- Project title - Development of Automation Foundry
- Secured 2nd rank in national level technical event - Laa Teqnix '06 organized by L. D. college of engineering, Ahmedabad
- Project title - Tablet analysis
- Secured 1st rank in national level technical event - Tech Utkarsh '05 organized by Atmiya Institute of technology & science, Rajkot
- Project title - Advance home security system
- Secured 1st rank in district science fair 2005 event awarded by Sarva Vidhyalay Kelavani Mandal, Kadi
- My Society education trust (Shree Malguru Education Trust) honored me with 1st Rank in 11th Science in May 2003.
- Secured 1st rank in Science fair Organized by Jilla Shikshan Talim Bhavan, Mehsana during 8th to 10th Jan 2003.
- Project title - Automatic distance height measurement

RESEARCH PUBLICATIONS

Journals- 12 Conferences- 12 Symposium Papers- 2 * All Detail in Annexure A

Reviewer in Journal

- International Journal on Interactive Design and Manufacturing (IJIDeM), Print ISSN- 1955-2513, Springer
- International Journal of Precision Engineering and Manufacturing, Electronic ISSN- 2005-4602, Print ISSN- 2234-7593, Springer

EVENTS ORGANIZE/EXPERTS/STTP/FDP/WORKSHOPS/SEMINARS/TRAININGS

Event organize/expert/Outside interaction - 72	Seminar/ Lecture Series/ Technical Session/
Short term training program (STTP) attended - 8	Certified Webinar/ Awareness Program/
Faculty development program (FDP) attended - 22	Training Program attended - 26
Workshop participation - 15	Professional training attended - 6
Professional certification – 1	Event participation - 21
* All Detail in Annexure B	

RESEARCH/PROJECT WORKS

Post Ph. D.

- Intelligent Hybrid Non-Conventional Manufacturing System with Automation Control

Ph. D.

- Design and development of cylindrical wire cut electrical discharge machine

M. Tech.

- Parametric analysis, optimization & mathematical modeling of KW, MRR & SR for H-11 material on WEDM.

B. E.

- Development of automation foundry

School Project

- RAKSHITALYM- Computerized security system.
- Automatic distance height measurement
- Antiterrorism robot
- Tablet analysis

Sponsored Projects

- Development of a Dribbling and Passing Mechanism for Autonomous Sports Robots (Project cost- 5,06,095/-)
Sponsored- GUNI CARS, **Year of Funding-** 2025(3 Year)
- Develop Rover Robot for ROBOFEST 3.0 (Project cost- 50,000/-)
Sponsored- GUJCOST, Govt. of Gujarat. **Year of Funding-** 2023
- Develop CNC milling machine (Project cost- 1,46,000/-)
Sponsored- SRPEC, Unjha
- Develop Servo operated earthquake shake table (Project cost- 3,50,000/-)
Sponsored- SRPEC, Unjha
- Design and development of low cost and high quality portable universal testing machine (Project cost- 31,000/-) **Sponsored-** SRPEC, Unjha
- Development of hydraulic kit for laboratory purpose (Project cost- 2,95,000/-)
Sponsored- SRPEC, Unjha
- Development of new design wire cut electrical discharge machine (Project cost- 5,60,000/-)
Sponsored- SRPEC, Unjha
- Design and development of reverse vending machine (Project cost- 60,000/-)
Sponsored- SRPEC, Unjha
- Design and development of real time dam and canal monitoring and controlling. (Project cost- 1,50,000/-) **Sponsored-** SRPEC, Unjha, **Supported-** Government of Gujarat
- Development of pneumatic training kit for laboratory purpose (Project cost- 97,000/-)
Sponsored- SRPEC, Unjha

Client based Projects

- Develop advance technology earthquake shake table (Project cost- 6,50,000/-)
Client- Indrashil Institute of Science and Technology, Rajpur
- Develop earthquake shake table working with real earth quake history (Project cost- 6,50,000/-)
Client- Vellore Institute of Technology, Vellore
- Design of greenhouse structure (Project cost- 26,000/-)
Client- Sayona Engineering & Kalpesh Farm
- An improvement and development of Mokshada Green Cremation System (Project cost- 8,00,000/-) **Client-** Shree Saraswati Muktidham trust, Shidhpur
- Development of glass cutting machine (Project cost- 70,000/-)
Client- Gayati Marbal

Guided/Supported post graduate and PhD thesis- 10 and under graduate projects- 61

* All Detail in Annexure C

BOOKS PUBLISHED

- Co-authored the book *Hydraulics and Pneumatics System* (ISBN: 978-81-19226-88-8), published by Scientific International Publishing House in 2024, focusing on the core principles and industrial applications of fluid power systems. Collaborated with Dr. Vijay Patel, Prof. Uchit Patel, and Prof. Trushar Shah to ensure technical accuracy and practical relevance.
- Co-authored *Entrepreneurship Development for Engineering* (ISBN: 978-93-48151-44-5), published by SRG Publishing, which explores innovation, business development, and entrepreneurial skills for engineers. Contributed alongside Dr. Vijay D. Patel, Dr. Chirag P. Patel, and Dr. Jignesh R. Mevada to develop industry-aligned educational content.

COMPUTER SKILLS

Modelling Software

- AutoCAD, Creo 2.0, Solid Work

FEA Analysis software

- Structural ANSYS Analysis, Creo 2.0 Analysis, Solid work Analysis

Manufacturing Software

- Master Cam, CNC Win CS, Mach CNC, NC Studio

Automation Software

- Delta Win PLC, Arduino, AVR, E-Yantra's Programming Studio, Automation Studio

Analysis of Variance

- Mini Tab, Design Expert, MatLab, QT-4, Neuro Excel, Origin86, DOE Pack, Coplot6

Database

- MS Access, MySQL, MsSQL

Programming Languages

- C, C++, VB6.0, ASP.NET, PHP, HTML, Excel VBA

Developed Software/Codes- 84 (Annexure D)

PRESS NOTES

- 28 press notes published in all over Gujarat newspaper such as Gujarat Samachar, Sandesh, Kutchch Press, Divya bhaskar etc. (Annexure E)
- 4 TV News presents in all state level TV news.

GENERAL PROFILE

Full Name : PATEL HARSHADKUMAR CHATURBHAI
Date of birth : 25/10/1986
Address : C28, Vatsalya City, Detroj Road,
Ta-Post-Kadi, Dist-Mehsana, State-Gujarat
Country-India, Pincode- 382715
Marital status : Married
Language known : Gujarati, Hindi, English
Hobby : Computer Coding, Project work, Designing, Reading in science field

I declare that the above information is best as per my knowledge.

DATE: ___/___/_____

PLACE: Kadi

Sincerely,
Dr. Harshadkumar Patel

RESEARCH PUBLICATIONS

Journals – 12

- “SAMARTH: an advanced biomechatronic prosthetic hand with enhanced dexterity, affordability, and user experience” Published in EPH - International Journal of Science And Engineering, ISSN: 2454-2016, vol. 11, issue 1, March 2025, DOI: 10.53555/epijse.v11i1.273
- “Material removing method for rotational parts with wire EDM machine” published in Journal of aeronautical materials, ISSN: 1005-5053, vol. 43, issue 01, Jan 2023, pp. 131-143.
- “New Material Removing Method for rotational parts with Wire EDM machine” manuscript accepted in MethodsX, ISSN: 2215-0161, Ms. Ref. No.: MEX-D-19-00047R1.
- “Design a new wire cut EDM machine for turning operation” published in International journal of advanced technology and engineering exploration, ISSN: 2394-7454, vol. 6, issue 53, April 2019, pp. 84-91, DOI: 10.19101/IJATEE.2019.650031.
- “Different types of wires effects on wire cut EDM” published in International journal of technical innovation in modern engineering & science (IJTIMES) ISSN: 2455-2585, vol. 4, issue 6, June 2018, pp. 1075-1082.
- “Parametric analysis and mathematical modelling of MRR and surface roughness for H-11 material on wire cut EDM by DOE approach” published in International journal of engineering research and applications (IJERA) ISSN: 2248-9622, vol. 2, issue 4, Jul-Aug 2012, pp.1919-1924.
- “Mathematical modeling on CO₂ laser cutting parameters of AISI 304”, published in International journal for innovative research in science & technology (IJIRST), ISSN (online): 2349-6010, vol. 1, issue 2, Jul 2014.
- “A review on tip clearance flow and secondary flow losses in linear turbine cascade” published in IOSR journal of mechanical and civil engineering (IOSR-JMCE) e-ISSN: 2278-1684, p-ISSN: 2320-334x, volume 11, issue 3 ver. Viii (May- Jun. 2014), pp 33-37.
- “Development and comparison of mathematical model for EN19 material using statistical analysis software on WEDM”, published in International journal of advance engineering and research development (IJAERD), volume 1, issue 12, Dec 2014, pp 242-247, scientific journal of impact factor (SJIF): 3.134, e-ISSN(o): 2348-4470, p-ISSN(p): 2348-6406.
- “Analysis of the heat affected zone in CO₂ laser cutting of stainless steel” published in International journal for scientific research & development (IJSRD) vol. 2, issue 11, Nov, 2015, ISSN (online): 2321-0613.
- “Experimental investigation of centrifugal pump regular and reverse mode”, published in international journal for scientific research & development (IJSRD) vol. 2, issue 11, Nov, 2015, ISSN (online): 2321-0613.
- “Optimization of kerf width, MRR and surface roughness of H-11 material machined with wire cut EDM process using grey relation analysis” published in international journal on recent and innovation trends in computing and communication (IJRITCC) ISSN: 2321-8169, volume: 3 issue: 12, Dec 2015, p.p.: 6536 – 6542.

Conferences - 12

- “Different types of wires effects on wire cut EDM machine by DOE approach”, published in International conference on technology and management (ICTM-2017) held at S. K. University, vol-1, Feb 2017, ISBN 978-93-5267-370-4, p.p. me037 - me041.
- “Design and development of advance tensile testing machine”, published in national conference on innovative & emerging technologies (NCIET) held at SRPEC, Unjha, vol 6, May 2018, ISBN 978-81-925650-0-2, p.p. 132-136.
- “Improvement in design reverse vending of waste bottle machine”, published in NCIET, vol 6, May 2018, p.p. 149-152.

- “Analysis and parametric optimization for C-45 material on WEDM with mathematical modeling by DOE Approach”, published NCIET, vol 5, May 2017, p.p. 321-326.
- “Design and development hydraulic training kit”, published in NCIET, vol 5, May 2017, p.p. 196-199.
- “Multi-objective optimization using Fuzzy in EDM machine Optimization”, published and present in NCIET, Jun 2016, p.p. 430-439.
- “Simulated Annealing on Optimization of Wire Electric Discharge Machining Parameter”, published and present in NCIET, Jun 2016, p.p. 440-444.
- “Design and development on conventional lathe machine”, published and present in NCIET, Jun 2016, p.p. 493-498.
- “Design and development of CNC milling machine”, published and present in NCIET, Jun 2016, p.p. 409-415.
- “Effect of ball burnishing force and number of ball passes on surface characteristics of C20 component”, published in NCIET, Apr 2015, p.p. 313-316.
- “Review on current research trends in wire electrical discharge machining (WEDM)”, published and present in NCIET, Apr 2015, p.p. 394-400.
- “Parametric analysis and mathematical modelling of kerf width, MRR and surface roughness for H-11 material on wire cut EDM by DOE Approach”, published and present in NCIET, Jan 2013, p.p. 215-220.

Symposium Papers - 2

- “Parametric analysis and mathematical modelling of MRR and surface roughness for H-11 material on wire cut EDM”, presented in knowledge way – paper presentation, national Symposium “Techno planet - 2012” held at R. K. University, Rajkot, Mar 2012.
- “A review paper on automated guided vehicle (AGV)”, presented in Laa Teqnix National level technical festival held at L. D. College of engineering, ahmedabad, Mar 2011.

ANNEXURE B**EVENTS ORGANIZE/EXPERTS/STTP/FDP/WORKSHOPS/SEMINARS/TRAININGS****Event organize / Expert / Outside Interaction– 72**

No.	Event Name	Role	Duration
72	One-day workshop titled “Application of AutoCAD in Industrial Drawing” for Mechanical Students	Coordinator and Expert	May 2025
71	One-day workshop on “Hands-on Practice for Industrial Automation using PLC”, organized under the Pre-Convergence event by Department of Mechanical Engineering, U. V. Patel College of Engineering, Ganpat University	Coordinator and Expert	Apr 2025
70	Six-Month Training Program on “SolidWorks Software”, for Mechanical Engineering Students	Instructor and Coordinator	Mar 2024
69	1 Day Awareness Programme on E-Waste Management jointly organized by regional office- GPCB Mehsana, M/S Basant Cleaneviro Limited and Ganpat University.	Coordinator	June 2024
68	Invited for Evaluation of Exhibits at Cluster level of the 51 st Rashtriya Bal Vaigyanik Pradarshani (RBVP) 2024 at JNV, Vadnagar	Jury	July 2024
67	1 Day in Interview panel for the mock interview for the post of Assistant Engineer (Mechanical), Gujarat Maritime Board at Shubh Academy, Gandhinagar	Expert	Dec 2022
66	2 Days Convergence-2022 Annual National Level Technical Symposium Organized by Ganpat University- UVPCE, Kherva	Committee Member	Oct 2022
65	1 Day SSIP 2.0 Sensitization Programme on Innovation and Startup at Government Polytechnic, Vadnagar	Expert	Oct 2022
64	1 Day webinar on “Non-conventional machining methods”	Expert	Oct 2020
63	2 Days Workshop on “Design using Solidworks”	Coordinator	Feb 2020
62	1 Day Workshop on “CNC Practices” for diploma students	Organizer and Expert	Feb 2020
61	1 Day Workshop on “CNC Practices” for diploma students	Organizer and Expert	Feb 2020
60	1 Day Workshop on "Workshop Technology"	Coordinator	Jan 2020
59	3 Day Training Program on "Automation System and Robotics"	Organizer and Expert	Dec 2019
58	3 Days Workshop on “Arduino based Automation in Thermal, Production and Automobile Fields”	Organizer and Expert	Aug 2019
57	3 Days Workshop on “Industrial Automation using PLC and SCADA”	Organizer	Jul 2019
56	2 Days Training Program on "Design of Experiment"	Expert	Jun 2019
55	1 Day Outside Institute Interaction with Marg-ITI Amirgadh by workshop on “Hydraulic and Pneumatic System”	Organizer and Expert	Apr 2019
54	1 Day Workshop on "Solve the mechanical problem using Microsoft Excel”	Organizer and Expert	Apr 2019
53	3 Days Training Program on “Product Design Using Solidwork and Ansys”	Organizer and Participate	Feb 2019
52	2 Days Workshop on “A way to become an expert automobile overhauling”	Organizer and Expert	Feb 2019
51	1 Day Workshop on "Data Analysis on IPR”	Organizer	Jan 2019

		and Expert	
50	2 Days Workshop on "Design in Solid Work Software"	Organizer and Participate	Sep 2018
49	2 Days Workshop on "Design and Development of Advance Robotics"	Organizer and Expert	Jul 2018
48	2 Days from 2 Weeks Technical Teachers' Training Program on "Emphasizing Morals, Values, Duties, Ethics and Character Education for Quality Teacher"	Expert	Jun 2018
47	1 Day Workshop on "Robotics" at Bhagwati International Public School, Patan	Expert	Feb 2018
46	1 Day Workshop on "Role of controllers in Mechanical Engineering and demonstrative use through pick and place robot - Do it Yourself" at Babaria Institute of Technology, Baroda	Expert	Feb 2018
45	1 Day from 3 Days National Level "Entrepreneurship Awareness Camp (EAC)"	Expert	Jan 2018
44	3 Days Workshop on "Industrial Automation" supported by Embetech Company, Mehsana	Organizer and Expert	Aug 2017
43	2 Days Workshop on "Robotics Scope and Development of Pick and Place Robot" for Computer Branch Students from SRPEC - Unjha	Organizer and Expert	Jul 2017
42	2 Days Workshop on "Robotics Scope and Development of Pick and Place Robot" for Civil and Mechanical Students from SRPEC - Unjha	Organizer and Expert	Jul 2017
41	3 Days National Level "Entrepreneurship Awareness Camp (EAC)"	Expert	Jun 2017
40	1 Days Workshop on "Embedded System and Robotics" for Government Polytechnic, Himmatnagar Students	Coordinator and Expert	Apr 2017
39	Project Fair 2017	Coordinator	Apr 2017
38	1 Days Workshop on "Embedded System and Robotics" for Government Polytechnic, Palanpur Students	Coordinator and Expert	Mar 2017
37	1 Days Workshop on "Embedded System and Robotics" for R. C. Technical Institute, Ahmedabad Students	Coordinator and Expert	Mar 2017
36	1 Days Workshop on "Embedded System and Robotics" for Government Polytechnic, Vadnagar Students.	Coordinator and Expert	Mar 2017
35	1 Days Workshop on "Embedded System and Robotics" for K. D. Polytechnic, Patan Students.	Coordinator and Expert	Mar 2017
34	Seminar on "Design Engineering"*	Organizer and Expert	Sep 2016
33	1 Days Workshop on "MS Office and Excel" Organized by SRPEC – Unjha	Expert	Sep 2016
32	3 Days National Level Workshop on "Entrepreneurship Awareness Camp (EAC)" Sponsored by Entrepreneurship Development Institute of India (EDI), Gandhinagar	Expert	Jul 2016
31	1 Day Workshop on "Advance Sensor and Programming on Arduino controller"	Organizer and Expert	Jul 2016
30	1 Day Workshop on "Advance Sensor controlling using Arduino controller "	Organizer and Expert	Jul 2016
29	Workshop on "Advance Programming on AVR"	Organizer and Expert	Jul 2016
28	Workshop on "Robotics Programming on AVR"	Organizer and Expert	Jul 2016

27	Workshop on "Gear Mechanism used in Robotics and torque calculation"	Organizer and Expert	Jul 2016
26	Workshop on "Study of Lathe and Drilling Machine for Generating Robotics Parts"	Organizer and Expert	Jul 2016
25	Workshop on "Electronic Components of Robotics"	Organizer and Expert	Jul 2016
24	Workshop on "Structure Design in Robotics"	Organizer and Expert	Jul 2016
23	Workshop on "Theory cum Practical on Cutting, Grinding and Welding Process"	Organizer and Expert	Jun 2016
22	Workshop on "Robotics Part Assembly and Analysis"	Organizer and Expert	Jun 2016
21	Workshop on "Draw Robotics Parts in Creo 2.0"	Organizer and Expert	Jun 2016
20	Workshop on "Creo sketch + Solid Edge"	Organizer and Expert	Jun 2016
19	Workshop on "House Wiring and Components"	Organizer and Expert	Jun 2016
18	4 Days Workshop on "Development and Controlling of Pick and Place Robot"	Organizer and Expert	Jul 2016
17	Seminar on "Design Engineering"	Organizer and Expert	Jul 2016
16	Proceeding Publication in National Conference on Innovative & Emerging Technologies (NCIET)	Coordinator	Jun 2016
15	Project Fair 2016	Coordinator	Apr 2016
14	State Level Event on "GTU Techfest" at L.D. College of Engineering - Ahmedabad	Faculty Coordinator	Mar 2015
13	STTP on "Application of Optimization in Engineering Using MATLAB"	Expert	Dec 2015
12	Workshop on "Robotics on AVR"	Organizer and Expert	Sep 2015
11	Workshop on Robotics	Organizer and Expert	Jul 2015
10	Workshop on Design Engineering for Final Year Project	Coordinator and Expert	Jul 2015
9	Seminar on Patent Awareness and PSAR Activities	Coordinator and Expert	Jun 2015
8	Project Fair 2015	Coordinator	Apr 2015
7	Proceeding Publication in National Conference on Innovative & Emerging Technologies (NCIET)	Coordinator	Apr 2015
6	One Day Workshop on "Life on Two Wheeler"	Coordinator	Apr 2015
5	Proceeding Publication in National Conference on Innovative & Emerging Technologies (NCIET)	Coordinator	Jan 2014
4	Proceeding Publication in National Conference on Innovative & Emerging Technologies (NCIET)	Coordinator	Jan 2013
3	Exhibition in National Level Technical Symposium- Prakrusht 2012	Organizer	Feb 2012
2	National Level Technical Festival- Quake 2008, at Government Engineering College – Bhuj	Organizer	Apr 2008
1	Valuable Contribution in Sharadotsav, at Government of Gujarat, Kutchch	Volunteer	Oct 2005

Short term training program (STTP) attended -8

No	Program	Organize by	Duration
8	One Week STTP on Emerging Trends on Control and Automation at Present Scenario	Organized by Department of Electrical Engineering, Dream Institute of Technology, Kolkata	May 2024
7	5 Days STTP on “Empowering Faculty in Research & Innovation”	GUNI-Internal Quality Assurance Cell and GUNI-Centre for Advanced Research Studies in association with AIU- Ganpat University (GUNI) - Academic & Administrative Development Centre (AIU-GUNI AADC).	Mar 2024
6	Six Days STTP on "Key areas of Mechanical Engineering and its relevance for Effective Teaching and Laboratory Practices"	Organized by Smt. S. R. Patel Engineering College, Unjha	Nov 2017
5	Three Days STTP on "Technical Report Writing and Authoring of Research Manuscript with Latex"	Sponsored by GUJCOST, Gandhinagar	Jun 2017
4	Five Day Short term course on "Mechatronics, MEMS and Micro-fabrication"	Organized by IIT Indore in Collaboration with Electronics and ICT Academy Jabalpur, at IIT, Indore	Dec 2016
3	Five Day STTP on “Advanced Engineering Optimization Through Modern Computing Techniques”	Organized by Smt. S. R. Patel Engineering College, Unjha	Dec 2016
2	Five Day STTP on "Application of Optimization in Engineering Using MATLAB"	Organized by Smt. S. R. Patel Engineering College, Unjha	Dec 2015
1	Five Day STTP on "Product Development using Computational Fluid Dynamics"	Organized by Smt. S. R. Patel Engineering College, Unjha	Nov To Dec 2014

Faculty development program (FDP) attended – 22

No	Program	Organized by	Duration
22	One week AICTE Training And Learning (ATAL) Academy FDP on “Artificial Intelligence in IoT and Aerial Robotics”	Organized by Kilachand Devchand Polytechnic, Patan	Dec 2024
21	One week Online FDP on “Empowering educators: Advancements in Computing Pedagogy”	Organized by Department of Artificial Intelligence & Data Science, Vishwakarma Institute of Technology, Pune	Feb 2024
20	5 Days Faculty Development Program on “Enhancing Quality of Teaching and Research in Engineering Education”	Organized by GUNI - Faculty of Engineering and Technology in association with Association of Indian Universities (AIU), GUNI-Internal Quality Assurance Cell & Institution’s Innovation Council.	July 2024
19	One week National Level Faculty	JNTUK University College of	Aug 2023

	Development Program on “Cloud Infrastructure (AWS)”	Engineering Narasaraopet, Andhra Pradesh in collaboration with Brainvision Solutions India Pvt. Ltd and AICTE	
18	One week Virtual National Level Faculty Development Program on “Research : Vision to solve problems through different angles”	Under the GUJCOST (Govt. of Gujarat) organized by Parul University, Limda	Oct 2022
17	One week AICTE Recognized Faculty Development Programme On Tools for Engineering Research	Conducted by B and B institute of technology, Vallabh Vidyanagar Under NITTTR, Chandigarh	Sept 2022
16	Five-days online faculty development program on “Cloud Based GIS Applications”	Organized by IMS Engineering College, Ghaziabad, Uttar Pradesh	Aug 2022
15	“Global Research Trends in Renewable Energy Sector and Opportunities for India and Australia”	Delivered by Prof. Chris Hutchison, Dy. Vic-Chancellor (Research & Innovation) Federation University, Australia and Organised by GUNI-Centre for International Alliances	July 2022
14	Five Days Online FDP on “ICT Tools for Effective Teaching Learning”	Organized by Govind Guru Tribal University at University College of Engineering, Banswara	July 2022
13	One Week National Level Online FDP on “Recent Trends of Mathematics for Engineers and Scientists”	Organized by GUNI-Department of Mathematics	July 2022
12	One Day Online FDP on “Virtual CNC Machine Simulation Software”	Organized by IndiaSoft Technologies (P) Ltd, Pune	Aug 2020
11	One Week International Faculty Development - Online on "Role of Materials and Processing in Additive Manufacturing: 3D Printing to Industry-2020"	Organized by Department of Mechanical Engineering, GLA University, Mathura in association with Indian Institute of Metals (IIM), Mathura Chapter	July 2020
10	Two days Training Program on "Design of Experiment"	Organized by Smt. S. R. Patel Engineering College, Unjha	Jun 2019
9	Five days FDP on “Startup and Innovation”	Organized by EDII and sponsored by Gujarat Knowledge Society (GKS) , Gujarat government	Dec 2018
8	One week Faculty Development Program on "Arduino and PLC based Automation in Thermal, Production and Automobile Fields"	Organized by the Department of Mechanical Engineering of SRPEC, Unjha	Apr 2018
7	One day Introductory Program on "LabVIEW"	GTU in association with National Instrument" at GIC, Ahmedabad	Apr 2015
6	One Day FDP on "Business Model Canvas"	at GTU, GIC-S4-Co Creation Centre, Ahmedabad.	Apr 2015
5	Three Day FDP on "Design Engineering-1B"	at GTU, GIC-S4-Co Creation Centre, Ahmedabad	Mar 2015
4	Three Day FDP on "Design Engineering-1B"	at GTU, GIC-S4-Co Creation Centre, Ahmedabad	Feb 2015
3	Three Day FDP on "Design Engineering-1A"	at GTU, GIC-S4-Co Creation Centre, Ahmedabad	Nov 2014
2	One Day FDP on "Advances in	at Gujarat Power Engineering And	Jun 2014

	Refrigeration & Air-Conditioning"	Research Institute, Mehsana	
1	One Day FDP on "Dhyey Training Academy & Placement Consultant"	at Dhyey Training Academy & placement Consultant, Ahmedabad	Jun 2013

Workshop participation – 15

No	Program	Organize by	Duration
15	Two Days National Level Workshop on "Research Paper Writing"	Organized by Applied Science and Humanities Department, Parul Polytechnic Institute, FOET, Parul University, Limba	Feb 2024
14	NAAC PTV FAQ sensitization Workshop	Ganpat University, Ganpat Vidyanagar, North Gujarat	Oct 2023
13	National Virtual Workshop on "How to Write Research Grant Proposal"	Ganpat University-Department of Social Work & CARS	Nov 2022
12	Two Days Workshop on "Design of Experiments using Taguchi Techniques"	Organized by CIPET-IPT-Ahmedabad and sponsored by GUJCOST	Dec 2018
11	Two Day Workshop on "Design in Solid Work Workshop"	Conducted by Malwa CAD Centre and organized by SRPEC, Unjha	Sep 2018
10	Two Day Workshop on "Introduction to Robotics"	Organized by e-Yantra, IIT, Bombay at IITRAM, Ahmedabad	Nov 2016
9	One Day Workshop on "PLC Based Automation"	Organized by NCVT, Ahmedabad at Smt. S. R. Patel Engineering College, Unjha	Aug 2016
8	One Day National Workshop on "National Workshop on Speed Reading and Reading Habits"	Library and Knowledge Center, Smt. S. R. Patel Engineering College, Unjha	Jun 2016
7	One Day Workshop on "Core Industry Oriented Automation Advance"	Organized by Automation & Embedded Training Center (AETC), Ahmedabad. during Prakrusht 2015 Event	Sep 2015
6	Day Workshop on "Core Industry Oriented Automation"	Organized by Automation & Embedded Training Center (AETC), Ahmedabad	Jul 2015
5	Two Day Workshop on "Understanding International Perspective and Methodologies used in Delivering Design Engineering Courses"	Organized by Gujarat Technological University, Ahmedabad	Apr 2015
4	One Day Workshop on "Life on Two Wheeler"	Organized by Smt. S. R. Patel Engg. College, Unjha	Apr 2015
3	Two Day Workshop on "Project Management Techniques for the Academia"	Organized by Gujarat Technological University, Ahmedabad	Mar 2015
2	One Day Workshop on "Patent Search Methodology"	Organized by GTU, Gujarat at LCIT, Mehsana	Sep 2012
1	One Day Workshop on "Industrial Robotics"	Organized by U. V. Patel College of Engineering, Kherva	Feb 2011

Seminar/ Lecture Series/Technical Session/ Certified Webinar/Awareness Program/Training Program attended – 25

No	Program	Organize by	Duration
25	One day National Level Webinar on the Topic "Intellectual Property Rights Issues and Challenges in	Organized by Department of Commerce and Library of Yashwantrao Chavan College, Ambajogai, Dist: Beed	April 2024

	India”		
24	National seminar on “IPR & Patent Filing in India”	Organized by Ganpat University, Acharya Motibhai Patel Institute of Computer Studies	Feb 2024
23	Online National Level Seminar on Research Methodology	Organized by Yashwantro Chavan College, Ambajogai, Maharashtra	Jan, 2024
22	Orientation to Old Method of NAAC Process and Important Insights about New Binary/Graded Accreditation System	Conducted by ARCNET India and CliMed Research Solution, India	Jan 2024
21	National Webinar on Mutual Funds – A Tool for Financial Empowerment	Organized by Dr. S. & S. S. Ghandhy GEC, Surat in Joint Collaboration with Association of Mutual Funds in India (AMFI)	Jan, 2024
20	National Webinar on “Financial Empowerment and Career Opportunities in Securities Market”	Organized by GEC, Palanpur and GEC, Dahod in Joint Collaboration with Association of Mutual Funds in India (AMFI)	Jan, 2024
19	International Webinar on “Emerging Trends in Mathematics and its Real-World Applications”	Organized by Department of Science & Humanities, Swarnim Institute of Technology, Swarnim Startup & Innovation University, Gandhinagar	Aug 2023
18	Virtual Talk on “Start up for Impact: Preparing Youth for Social Business”	Organized by Ganpat University- Department of Social Work	July 2023
17	Online Expert Session on Start-up and Innovation Idea	Organized by Ganpat University - FOET	Feb, 2023
16	Webinar on Simulation for DC and AC Electrics + PLC	Organized by Automation Studio	Feb, 2023
15	Webinar on Simulation for Pneumatics and Electro-Pneumatics + PLC	Organized by Automation Studio	Feb, 2023
14	Webinar on Simulation for Hydraulics and Electro-Hydraulics + PLC	Organized by Automation Studio	Feb, 2023
13	National Webinar on India’s G20 Presidency: Reimagining World Order	Organized by Ganpat University- Department of Social Work	Feb, 2023
12	IP Awareness/ Training Program	Under National Intellectual Property Awareness Mission, Organized by Intellectual Property Office, India	Jan, 2023
11	Expert Lecture on Autodesk Fusion 360	Organize by Autodesk Authorized Training Center	Dec 2022
10	IP Awareness/ Training Program	Under National Intellectual Property Awareness Mission, Organized by Intellectual Property Office, India	Sept, 2022
9	Technical session on “Product Development Process and it's importance in BTech Projects”	e-Yantra Lab Setup Initiative (eLSI), Indian Institute of Technology Bombay	Sept 2022
8	One Day Impact Lecture Series 2022-23, Session-2	Institution’s Innovation Council (IIC), GSFC University, Vadodara Supported by MoE’s Innovation Cell (MIC),	July 2022

		AICTE and GUIITAR Council	
7	Five essential elements of science & technology (Panchtatvam)	Shri Satsangi Saketdham "Ram Ashram" Group of Institutions, Vadasma	May 2020
6	Happiness and Peace of Mind Through Buddha's way of Life" by Dr. Bhanji H. Somaiya	Council of Library & Information Science (COLIS), Gandhinagar	May 2020
5	IoT - Smart Cities Development	Silver Touch Techlab Team by GTU	April 2020
4	Health Power from Reading Power	Council of library and information science, Gandhinagar	April 2020
3	Introduction to Google Docs: Basic and Advanced Learning	ISTE Approved	April 2020
2	Two Day Seminar on "Research Methodology"	Organized by U. V. Patel College Of Engineering, Kherva	Jan 2015
1	Two Day Seminar on "Recent Advances in Foundry Techniques and Their Relevance to Indian Conditions"	Organized by U. V. Patel College Of Engineering, Kherva	Dec 2010

Professional training attended – 6

No	Program	Conducted by	Duration
6	3 Month Training in Advanced PLC module in Automation Technology- passed with A Grade	Bosch Rexroth-Center of Excellence, Ganpat University Approved by CED, Government of Gujarat.	5 th Sept 2023-25 th Nov 2023
5	10 Day's training on STEAM Robotics Masters Training and Certificate Program	Teerth initiative of Knowledge Consortium of Gujarat, Govt. of Gujarat	26 th Dec 2022-12 th Jan 2023
4	3 Month course on Computer Concepts(CCC)	Moment Education & Research Foundation- Visnagar	Oct-Dec 2018
3	3 Month Training on "Task Based Training (TBT-2017)"	e-Yantra Lab Setup Initiative (eLSI), IIT, Mumbai	Jan-Apr 2017
2	3 Month Training on "Pro/E Foundation"	Paras, Ahmedabad	Oct-Dec 2008
1	3 Month Training on "C-Programming"	Rakshak Computer, Bhuj	Mar-May 2007

Professional Certification – 1

No	Subject	Awarded by	Duration
1	Associate - Mechanical Design, Solidwork Exam (CSWA)	Dassault Systems	Dec 2023

Event participation – 21

No	Event Name	Organized By	Duration
21	India's biggest Robotics competition: "ROBOFEST-GUJARAT 3.0"	GUJCOST	Apr 2023
20	National Robotic Contest titled as "ROBOCON"	IIT, Delhi	May 2025
19	National Robotic Contest titled as "ROBOCON"	IIT, Delhi	Mar 2020
18	National Robotic Contest titled as "ROBOCON"	MIT, Pune	Mar 2018
17	National Robotic Contest titled as "ROBOCON"	MIT, Pune	Mar 2017
16	National Robotic Contest titled as "ROBOCON"	MIT, Pune	Mar 2016
15	National Level Technical Events titled as "Jugaad Promotion Exhibition & Patent Facilitation Workshop-2012"	Pacific Center for Indigenous Technology	Apr 2012

	Project: - Auto Rain Measurement		
14	National Level Technical Events titled as "Jugaad Promotion Exhibition & Patent Facilitation Workshop-2012 Project: - Auto Missile Launcher	Pacific Center for Indigenous Technology	Apr 2012
13	National Level Technical Events titled as "Jugaad Promotion Exhibition & Patent Facilitation Workshop-2012 Project: - Safety Home	Pacific Center for Indigenous Technology	Apr 2012
12	National Level Technical Event titled as "Techno Planet 2012" Event:- Pro/E Events	School Of Engineering, RK. University, Rajkot	Mar 2012
11	National Level Technical Event titled as "Techno Planet 2012" Project: - Auto Missile Launcher	School Of Engineering, RK. University, Rajkot	Mar 2012
10	State Level Technical Symposium titled as "Search '2011" Event:- Robowar Events.	Laljibhai Chaturbhai Institute Of Technology, Bhandu	Apr 2011
9	National Level Technical Symposium titled as "Convergence 2011" Project: - Auto Missile Launcher	U. V. Patel College Of Engineering, Kherva	Mar 2011
8	National Level Technical Symposium titled as "Convergence 2011" Project: - Auto Rain Measurement	U. V. Patel College Of Engineering, Kherva	Mar 2011
7	National Level Technical Symposium titled as "Convergence 2011" Event: - Resque Roboz	U. V. Patel College Of Engineering, Kherva	Mar 2011
6	National Level Technical Festival titled as "Teqnix 2011" Event:- Be A CAD Pro	L. D. College of Engineering, Ahmedabad	Mar 2011
5	National Level Technical Festival titled as "Teqnix 2011" Event:- Open hardware	L. D. College of Engineering, Ahmedabad	Mar 2011
4	National Level Technical Festival titled as "Teqnix 2011" Event:- Papyrus	L. D. College of Engineering, Ahmedabad	Mar 2011
3	National Level Technical Festival titled as "Footprints- XI" Project: - Auto Missile Launcher	Maharaja Sayajirao University of Baroda	Feb 2011
2	National Level Technical Festival titled as "Footprints-2008" Project: - Automatic Foundry	Maharaja Sayajirao University of Baroda	Feb 2008
1	National Level Technical Festival titled as "Footprints-2006" Project: - Tablet Analysis	Maharaja Sayajirao University of Baroda	Feb 2006

ANNEXURE C

GUIDED/SUPPORTED POST GRADUATE THESIS AND UNDER GRADUATE PROJECTS

Under graduate Projects – 61

No	Title	Students Name	Enrollment No	Year
61	Design and development of mobile universe testing machine	Shivam Patel	22012032023	2024-25
		Subhendradu Dave	22012032005	
		Daksh Gupta	22012032035	
60	Development of Belt Conveyor with PLC Training Kit	Aksh Prajapati	22012032027	2024-25
		Purvang Prajapati	22012032030	
		Aryan Prajapati	22012032028	
59	Design and development of road divider printing machine	Patel Smit	20012031008	2023-24
		Shaikh Arsh	20012031013	
		Muchhadiya Chandresh	21012032015	
58	Design and development of mobile universe testing machine	Kalara Harsh	21012032011	2023-24
		Makwana Vivek	21012032013	
		Makwana Rutvik	21172032059	
57	Design and development of fire extinguisher system for rural area	Bariya Akash	21172032006	2023-24
		Bariya Nitesh	21172032008	
		Ganava Pavan	21172032023	
56	Development of fire extinguisher system for Rural area	Hrithik Vasava	19012031032	2022-23
		Harshad Patel	19012031016	
		Harshad Gamit	19012031005	
55	Design and Development of modern Fixture in wire cut EDM machine	Narendra Prajapati	170780119024	2020-21
		Chirag Suthar	170780119027	
		Kartik Prajapati	170780119023	
		Jainik Patel	170780119017	
		Harsh Patel	150780119045	
54	Design and development of tension control mechanism in wire cut EDM	Deep Patel	170780119015	2020-21
		Keyur Patel	170780119018	
		Utkarsh Patel	140780119059	
		Jayendra Vaghela	180783119002	
53	Automatic mask vending machine	Jay Patel	160780119036	2020-21
		Sagar Nagvaniya	170780119010	
		Harshil Patel	170780119016	
		Darshan Prajapati	170780119022	
52	Modification and development of wire electrical discharge machining and adding rotary axis for cylindrical machining	Yash Patel	160780119037	2019-20
		Neel Suthar	150780119081	
		Yogesh Makwana	160780119007	
		Tirth Bhatiya	160780119001	
50	Modification of CNC lathe and parametric analysis	Karan Patel	160780119023	2019-20
		Raj Patel	160780119025	
		Ravi Patel	160780119026	
		Smit Patel	160780119033	
49	Design modelling and developing of reaper machine	Hardik Mevada	160780119010	2019-20
		Harsh Parmar	160780119016	
		Rutvij Patel	160780119029	
		Sagar Patel	160780119030	
		Miheer Suthar	160780119048	

48	Parametric analysis of WAJM	Hetasvi Patel	150780119046	2018-19
47	Design and development of automatic circular parts measurement device	Ravikumar Patel	140780119051	2018-19
		Tejaskumar Patel	140780119058	
		Jay Vyas	140780119082	
		Kartikkumar Joshi	150783119004	
		Maulik Patel	140780119045	
46	CNC lathe	Maulik Chauhan	140780119004	2018-19
		Hardik Dhobi	150780119012	
		Bhavik Dodiya	150780119013	
		Mohil Parikh	150780119027	
		Maaz Alauddin	160783119001	
		Milankumar Parmar	160783119006	
45	Table saw modification	Chiragkumar Patel	150780119038	2018-19
		Harpalsinh Rajput	150780119071	
		Jayeshkumar Salvi	150780119076	
		Rohitkumar Thakor	150780119085	
44	Modification in wire cut EDM machine	Parth Brahmabhatt	150780119003	2018-19
		Vijay Desai	150780119011	
		Vinay Moriyani	150780119024	
		Sanjaysinh Rajpoot	150780119070	
43	Motorbike health monitoring	Dhruvil Brahmabhatt	160783119002	2018-19
		Harshkumar Patel	160783119009	
		Nitinkumar Patel	160783119010	
		Akash Prajapati	160783119011	
42	Inspection of power transmission system	Harshkumar Patel	150780119044	2018-19
		Jaykumar Patel	150780119047	
		Neel Patel	150780119058	
		Prafulkumar Tekwani	150780119082	
41	Modification of universal testing machine(UTM)	Darshankumar Patel	150780119039	2018-19
		Kishan Patel	150780119049	
		Lavkumar Patel	150780119053	
		Neel Patel	150780119057	
40	Development of multipurpose portable CNC plotter	Chiragkumar Patel	150780119037	2018-19
		Meet Patel	150780119054	
		Yashkumar Patel	150780119066	
		Jayprakash Ratwani	150780119073	
39	Modifications of CNC milling machine	Avdhut Patel	150780119034	2018-19
		Kishankumar Patel	150780119051	
		Parthkumar Patel	150780119059	
38	Design and development of advance tensile testing machine	Yash Gupta	140780119007	2017-18
		Sachin Modi	140780119017	
		Bhavik Panchiwala	140780119025	
		Harsh Patel	140780119039	
37	Improvement in design of waste bottle reverse vending machine	Hardik Mali	140780119013	2017-18
		Mohin Oza	140780119021	
		Dhruv Patel	140780119035	
		Chirag Raval	140780119069	
36	Rotary work piece wire EDM machine	Deep Patel	140780119033	2017-18
		Jimit Patel	140780119041	
		Yash Prajapati	140780119065	

35	Analysis and parametric optimization for C-45 material on WEDM with mathematical modeling by DOE approach	Amul Vaghela	130780119103	2016-17
		Yash Prajapati	130780119088	
		Arth Prajapati	130780119077	
		Chetan Parmar	130780119044	
34	Automation in real time dam and canal monitoring and operation	Savan Patel	130780106044	2016-17
		Rihen Modi	140783119012	
		Pranshu Mevada	140783119033	
		Priyank Patel	130780119089	
33	Design and development hydraulic training kit	Kapadiya Kinnari	120780119090	2016-17
		Hardik Barot	140783119002	
		Hiren Patel	140783119036	
		Ronak Patel	140783119038	
32	Design and development of automatic weight based packing machine	Alpeshkumar Mali	120780119096	2016-17
		Sunilkumar Prajapati	120780119107	
		Hardikkumar Patel	130780119058	
		Brijeshkumar Patel	130780119052	
31	A concept design of material handling system for stone mining industries	Ruchil Patel	120780119023	2015-16
		Kavit Patel	120780119049	
		Bhavik Patel	120780119001	
30	Automatic material filling and handling system in gayatri psylum	Vijaykumar Nadoda	120780119070	2015-16
		Vishalkumar Desai	120780119085	
		Karan Maheshwari	110780119115	
		Vijaykumar Rabari	120780119086	
29	Automation of bed for hospital purpose	Nirav Chauhan	120780119081	2015-16
		Kishan Panchani	120780119064	
		Havan Patel	120780119012	
		Maulik Nayee	110780119031	
28	Design & development of wire cut electric discharge machine	Jalilkhan Bihari	130783119001	2015-16
		Bhaumin Modi	130783119006	
		Apurv Patel	130783119009	
		Niraj Patel	130783119020	
27	Design & development on conventional lathe machine	Darshan Suthar	130783119033	2015-16
		Pranav Patel	130783119023	
		Dharvish Prajapati	120780119092	
		Urjit Patel	120780119078	
26	Design and development of movable fan for classroom	Maulikmakwana	120780119058	2015-16
		Suraj Luhar	120780119062	
		Ravi Parmar	120780119110	
		Darshan Nayi	110780119079	
25	Design of automatic traffic control system	Niravkumar Patel	130783106005	2015-16
		Rupesh Rudani	120780106016	
		Yuvrajsinh Chauhan	120780106044	
		Gautamkuamr Patel	120780106035	
24	Development of electric pneumatic control trainer kit	Bhavikkumar Patel	120780119063	2015-16
		Jaiminkumar Patel	120780119013	
		Kevins Patel	120780119028	
		Niravkumar Patel	120780119030	
23	Different types of wires effects on wire cut EDM machine by DOE approach	Pratik Patel	120780119024	2015-16
		Siddharth Patel	120780119018	
		Akshay Patel	120780119027	
		Jay Patel	120780119002	

22	Hydraulic actuator design and installation for strictly control of traffic	Ketul Patel	120780119016	2015-16
		Jatin Patel	120780119004	
		Akshay Modi	120780119021	
		Bhumik Joshi	120780119007	
21	Design and analysis of roller cutting machine in ginning industries	Chetan Prajapati	110780119097	2014-15
		Ravindra Yadav	110780119107	
		Harsh Dave	110783119006	
		Vishwash Chaudhary	110780119101	
20	Design and development of automatic wheelchair and bed for old-age home	Mohit Joshi	110780119026	2014-15
		Deep Bhavsar	110780119029	
		Mehul Prajapati	110780119098	
19	Design and development of automatic wheelchair and bed for old-age home	Vishal Patel	110780119020	2014-15
		Rushabh Shah	110780119038	
		Jimmy Patel	110780119042	
		Hiren Patel	110780119002	
18	Design and development of electric discharge machine	Hardik Patel	110780119047	2014-15
		Kaushal Patel	110780119054	
		Kaushal Patel	110780119111	
		Shekhar Prajapati	110780119068	
17	Study of the effect of column orientation in multi storey building	Jenish Patel	110780119006	2014-15
		Dhruv Panchal	100780106032	
		Vishalsinh Hadiyol	90780106058	
		Bhavik Patel	110780106019	
16	An improvement and development of MOKSHDA green cremation system	Prakash Chaudhary	110780106038	2013-14
		Robin Panchiwala	100780119056	
		Nishchay Chaudhary	100780119032	
		Biren Patel	100780119049	
15	Analysis and parametric optimization of plasma arc cutting (PAC) with mathematical modeling	Jalpiti Trivedi	110783119001	2013-14
		Chintan Patel	100780119001	
		Brijesh Patel	100780119061	
		Samir Patel	100780119012	
14	Development of auto gear transmission with use of magnetic clutch	Hardik Patel	100780119025	2013-14
		Bhavik Patel	100780119016	
		Chandresh Patel	100780119009	
		Dhruvil Patel	100780119019	
13	Experimental & analytical evaluation of base isolated water tank structure	Jaimin Patel	100780119010	2013-14
		Umesh Patel	100780106013	
		Anant Patel	100780106014	
		Kalpesh Prajapati	100780106034	
12	Experimental and analytical evaluation of base isolated building structure	Kevin Patel	100780106019	2013-14
		Darshankumar Suthar	100780106031	
		Hemantsang Thakor	100780106037	
		Ansumansinh Darbar	100780106038	
11	Improvement in material handling system in ginning industry	Ashish Prajapati	100780106058	2013-14
		Kuldeep Rathod	100780119028	
		Akash Modh	100780119039	
		Jaydeep Thakkar	100780119041	
10	The automation applied on brick production using powder metallurgy concept	Vishvas Oza	100780119050	2013-14
		Jaldip Salavi	100780119045	
		Mohil Prajapati	100780119035	
		Amar Patel	100780119005	

		Ankit Patel	100780119017	
9	Development of automation foundry	Parth Patel	90780119003	2012-13
		Trushar Patel	90780119017	
		Sachin Patel	90780119031	
		Sandip Parajapati	90780119040	
8	Development of CNC milling machine	Karpit Patel	9780119064	2012-13
		Chintan Patel	9780119026	
		Jayminkumar Patel	90780119020	
7	Experimental investigation and mathematical model of effect of machining parameters on surface roughness & material removal rate (MRR) in turning of AISI D2 steel	Jigarkumar Patel	90780119002	2012-13
		Nagji Rajput	90780119030	
		Jignesh Patel	90780119001	
6	Magnetic levitation pump	Ankur Patel	90780119021	2012-13
		Bhavinkumar Patel	90780119005	
		Bhavikkumar Patel	90784119401	
4	Parametric analysis and mathematical modeling of MRR, and surface roughness for HCHCR material on WEDM by DOE approach	Brijeshkumar Patel	100783119001	2012-13
		Nikunj Patel	100783119002	
3	Parametric analysis of material removal rate (MRR) and surface roughness (RA) on plasma cutting machine	Dhaval Prajapati	90780119044	2012-13
		Siddharth Sathvara	90780119042	
		Sukit Patel	90780119013	
		Monica Patel	90780119054	
2	Parametric analysis of material removal rate (MRR) and surface roughness (SR) on electric discharge machine	Bhavin Patel	90780119014	2012-13
		Vivek Patel	90780119056	
1	Preparation and study of different structures by developing earthquake shake table	Kunal Chauhan	90780106014	2012-13
		Parixit Goswami	90780106044	
		Mihir Brahmhatt	90780106043	

Supported Post Graduate and PhD Thesis - 10

No	Title	Students Name	Institute/ University	Year
10	Design and Development of Near dry electric discharge machining (EDM) Attachment	Himanshu R. Sathavara (23276311002)	Ganpat University	2023- Present
9	Performance & Parametric Analysis of H11 Die Tool Steel Machining using Rotating Workpiece Attachment on EDM	Thakor Aman Govindbhai (22014041006)	Ganpat University	2023-24
8	Parametric Investigation of Coronary Stent using Laser Micromachining	Jatin H. Patel (PRN-S2016PHDFET007)	Sankalchand Patel University, Visnagar	2021-22
7	Development and experimentation of rotary assisted hot abrasive jet machining process	Pradipkumar Sangrambhai Chaudhari	Ganpat University	2021-22
6	Analysis of mechanical behavior of TIG welded AISI321 austenitic stainless steel plate	Dhruvkumar K. Raval Enrollment Number: 150650728006	Merchant Engineering College	2016-17
5	Experimental investigation of welding	Chintan Patel Enrollment Number:	Merchant	2016-

	parameters for AL 6061 – MG AZ31b material on Fiber laser welding	150650728002	Engineering College	17
4	Experimental investigation of SS321 and SS316l using CO ₂ laser cutting machine	Riya Patel Enrollment Number: 150650728005	Merchant Engineering College	2016-17
3	Modeling and optimization of process parameters for AISI 304 on CO ₂ laser cutting using RSM approach	Rajeshkumar Chaudhari Enrollment Number: 120650728013	Merchant Engineering College	2013-14
2	Productivity improvement of bucket elevator by modified design	Snehal S. Patel Roll No: M10Cad15	Ganpat University	2011-12
1	Design and fabrication of solar PVT system with automation	Vishant Patel Roll No: M10cad16	Ganpat University	2011-12

Diploma Project - 3

- Automatic Rain Measurement
- Auto Missile Launcher
- Computerized Pick and Place Robot

Other Project - 4

- Seismograph
- Long Haul Truck Cabin Design
- Development of Rotating Bridge
- Development of Roll Cutting Machine in Zinning Industry

ANNEXURE D

DEVELOPED SOFTWARE/CODES

Software and Application- 53

No	Software Name	Developed for
53	Event Registration and Management System	Convergence, Ganpat University-uvpce
52	Billing and Manufacturing Reporting Software	Axellise Auto Accessories Pvt. Ltd.
51	Project Management System	Khodiyar Enterprise
50	Sample and Lead Management System	Mehul Electro Insulating Industries
49	Leadapp (Lead Management Reseller Panel)	GoalDone Solution
48	Customer relation management	Shakti Engineering
47	Customer relation management	Swastic Engineering, Ahmedabad
46	Customer relation management	Hardic Engineering, Ahmedabad
45	Service and Spare Management	Orbit Engifeb Project Pvt. Ltd.
44	Lead Management	Orbit Engifeb Project Pvt. Ltd.
43	GDS Panel-School/Academic Tuition class ERP	S.K Education Hub, Sidhapur
42	Veggie market (app, website and software)	Aayushi Vegetable Farm, Mehsana
41	Store accounting software	Aadesh industries, Mehsana
40	Shivkrupa super market	Aadhar mall, Batchraji
39	Books seller software	Darshita prakashan, Mehsana
38	Oil agency software	Dev oil, Mehsana
37	Loan software	Dtpsml, Datiwada
36	Dhiran management software	Dtpsml, Datiwada
35	Small ERP software	Goaldone solution, Kadi
34	Tax accounting software	Gram panchayat, Chansama
33	Loan software	Gtpssml, Gandhinagar
32	Dhiran management software	Gtpssml, Gandhinagar
31	Bachat mandal software	Mahalaxmi bachat mandal, Kadi
30	Courier management software	Maruti air courier, Mehsana
29	Magazine agency software	Navnit magazine agency, Mehsana
28	Book publication	Nithi publication, Mehsana
27	Bulk sms software	S. V. Highschool, Kadi
26	Project management software	Utech rising technology, Mehsana
25	Billing and account software	Utech rising technology, Mehsana
24	Event management software	Utech rising technology, Mehsana
23	Earth shake table software	Vellore institute of technology, Vellore
22	Material requirement planning software	Ravi automation, Kadi
21	College management software	Smt. S. R. Patel Engg. College, Unjha
20	Multi choice question exam online and offline	Smt. S. R. Patel Engg. College, Unjha
19	Canteen management software	Smt. S. R. Patel Engg. College, Unjha

18	Birst day SMS email code	Smt. S. R. Patel Engg. College, Unjha
17	Student history card software	Smt. S. R. Patel Engg. College, Unjha
16	Project room with barcode software	Smt. S. R. Patel Engg. College, Unjha
15	Excel to SMS software	Smt. S. R. Patel Engg. College, Unjha
14	Event countdown software	Smt. S. R. Patel Engg. College, Unjha
13	Gtu exam result software	Smt. S. R. Patel Engg. College, Unjha
12	ANOVA analysis software	Research work
11	Mathematical model solution software	Research work
10	Solar air heating system software	Research work
9	Engineering design problem solution software	Research work
8	Image measurement software	Research work
7	Literature review software	Research work
6	Rain measurement and analysis software	Project work
5	CNC machine software	Project work
4	Industrial automation software	Project work
3	Robot controlling software	Project work
2	Home, store, mall security software	Project work
1	Road traffic control system	Project work

Website for Market - 22

- www.ajayengi-infrastructure.com
- www.orbitintelligent.com
- www.goaldonesolution.com
- www.gtpssml.co.in
- www.hharvi.com
- www.softwarexda.com
- www.youngcitizenMehsana.in
- www.shriramsevasamiti.org
- www.dmpatel.co.in
- www.neelkanthpackaging.com
- www.dtpsm.org.in
- www.eklavyaacademy.org.in
- www.raviAutomation.com
- www.aavishkar.com
- www.mechanical.srpec.org.in
- www.helpinghand.srpec.org.in
- www.nciet.srpec.org.in
- www.jobfair.srpec.org.in
- www.prakrust.srpec.org.in
- www.mechfest.srpec.org.in
- www.veggie.goaldonesolution.com
- www.skeducationhub.com

Excel Code-9

No	Code	Developed for
9	Automatic board exam form filling code	S. V. Highschool, Kadi
8	Class test SMS software	Smt. S. R. Patel Engineering College, Unjha
7	Attendance calculator with parents SMS and letter Code	
6	Student feedback analysis code	
5	Certificate generation code	
4	Job Fair Management code	
3	JEE class management & exam code	
2	I card generation code	
1	Admission call data management code	

ANNEXURE E

PRESS NOTES

No	News Paper	Project Title	Date
28	Divya bhaskar, Mehsana	CII award	18-10-2017
27	Sandesh, Mehsana	Automation workshop	01-09-2017
26	Divya bhaskar, Mehsana	Automation canal project	27-06-2017
25	Sandesh, Mehsana	Automation canal project	24-06-2017
24	Divya bhaskar, Mehsana	Robotics workshop	17-07-2016
23	Sandesh, Mehsana	Robocon workshops	08-07-2016
22	Sandesh Surat	Wi- fi system	9-11-2006
21	Dvya bhaskar- Mehsana	Rotating bridge	11-2-2012
20	Sandesh Mehsana	Rotating bridge	15-2-2012
19	Gujarat samachar- Ahmedabad	Rakshitalayam	13-2-2007
18	Loksata-jansata, Ahmedabad	Foundry	14-2-2007
17	Gujarat samachar- Rajkot	Rakshitalayam	16-2-2007
16	Kutchmitra	Rakshitalayam	23-10-2005
15	Akila	Foundry	10-3-2007
14	Divya bhaskar- Vadodara	Anti-terrorism robot	24-2-2008
13	Sandesh- Vadodara	Anti-terrorism robot	24-2-2008
12	Gujarat samachar- Ahmedabad	Foundry	14-2-2007
11	Kutchmitra	Foundry, rakshitalayam	26-2-2007
10	Sandesh- Vadodara city	Anti-terrorism robot	24-2-2008
9	Divya bhaskar- Ahmedabad	Rakshitalayam	5-11-2005
8	Kutch mitra	Eartquake measurement & Rakshitalayam	6-4-2008
7	Kutch uday	Anti-terrorism robot	3-4-2008
6	Sandesh- Ahmedabad	Rakshitalayam	25-10-2005
5	Sandesh- Ahmedabad	Rakshitalayam	9-3-2007
4	Divya bhaskar- Kutch	Rakshitalayam	6-4-2008
3	Sandesh- North Gujarat	Tablet analysis	4-11-2004
2	Divya bhaskar- Ahmedabad	Tablet analysis	4-11-2004
1	Sandesh- North Gujarat	Tablet analysis	18-1-2005