

Research Problems from Research Organizations

01	Title of Research Problem	Biotechnological interventions to prepare nano fertilizers
	Discipline/Domain (e. g. Electrical Engineering, Computer Engineering, Civil Engineering, Pharmacy, Architecture, bitechonology, Physics, Maths, etc.)	Biotechnology
	Name of Research Problem Contributor	Dr Kamalesh Prasad
	Profile Link of Problem Contributor	—
	Is Problem Contributor interested to be Co-Supervisor (Y/N)?	No

02	Title of Research Problem	Plant/seaweed tissue culture.
	Discipline/Domain (e. g. Electrical Engineering, Computer Engineering, Civil Engineering, Pharmacy, Architecture, bitechonology, Physics, Maths, etc.)	Biotechnology
	Name of Research Problem Contributor	Dr Aneesha Singh
	Profile Link of Problem Contributor	—
	Is Problem Contributor interested to be Co-Supervisor (Y/N)?	No

03	Title of Research Problem	Stimuli responsive nanocarriers for drug delivery
	Discipline/Domain (e. g. Electrical Engineering, Computer Engineering, Civil Engineering, Pharmacy, Architecture, bitechonology, Physics, Maths, etc.)	Biotechnology, Biology, Chemistry
	Name of Research Problem Contributor	Dr. Sumit kumar Pramanik
	Profile Link of Problem Contributor	https://scholar.google.co.in/citations?user=t-fG6ZYAAAAJ&hl=en
	Is Problem Contributor interested to be Co-Supervisor (Y/N)?	Yes

04	Title of Research Problem	The importance of detritus and microenvironment nutrient enrichment to the growth of coral reef macroalgae
	Discipline/Domain (e. g. Electrical Engineering, Computer Engineering, Civil Engineering, Pharmacy, Architecture, bitechonology, Physics, Maths, etc.)	Biotechnology, Biology
	Name of Research Problem Contributor	Dr. Sumit kumar Pramanik
	Profile Link of Problem Contributor	https://scholar.google.co.in/citations?user=t-fG6ZYAAAAJ&hl=en
	Is Problem Contributor interested to be Co-Supervisor (Y/N)?	Yes

05	Title of Research Problem	Energy efficient desalination processes
	Discipline/Domain (e. g. Electrical Engineering, Computer Engineering, Civil Engineering, Pharmacy, Architecture, biotechnology, Physics, Maths, etc.)	Chemical Engineering
	Name of Research Problem Contributor	Dr. Bhaumik Sutariya
	Profile Link of Problem Contributor	https://scholar.google.com/citations?user=PNPOMooAAAJ&hl=en
	Is Problem Contributor interested to be Co-Supervisor (Y/N)?	Yes

06	Title of Research Problem	Modular twin crystallizer for selective component recovery: Applications in (i) extraction of minerals, and (ii) organic separations.
	Discipline/Domain (e. g. Electrical Engineering, Computer Engineering, Civil Engineering, Pharmacy, Architecture, biotechnology, Physics, Maths, etc.)	Chemical Engineering, Chemistry
	Name of Research Problem Contributor	Dr. Parul Sahu
	Profile Link of Problem Contributor	https://scholar.google.com/citations?user=XKX1XSQAAAJ&hl=en
	Is Problem Contributor interested to be Co-Supervisor (Y/N)?	Yes

07	Title of Research Problem	1. Biopolymers 2. Plant -microbe interactions 3. Salinity tolerant microbes & biofertilizer/nanofertilizers 4. wastewater management and microbes
	Discipline/Domain (e. g. Electrical Engineering, Computer Engineering, Civil Engineering, Pharmacy, Architecture, biotechnology, Physics, Maths, etc.)	Applied science
	Name of Research Problem Contributor	Dr Aneesha Singh
	Profile Link of Problem Contributor	https://scholar.google.co.in/citations?user=oq-GfXEAAAAAJ&hl=en
	Is Problem Contributor interested to be Co-Supervisor (Y/N)?	No

Research Problems from Research Supervisors

Electrical Engineering

01	Name of the Supervisor	Prof. S. N. Pandya
	Name and Code of the institute of Supervisor	Vishwakarma Government Engineering College, Chandkheda (017)
	Supervisor's Designation	Professor
	Profile Link of Supervisor	https://vgecg.ac.in/departement.php?dept=5
	Supervisor's Research Domain	Renewable Energy, Power Quality, Electric Drives and Converter topology used in EV, Microgrid
	Research Problems	1. To develop technique for seamless operation of grid connected AC microgrid. 2. To develop charging converter topology for electric vehicle. 3. To study the impact on distributed generation on the power system distribution network.

02	Name of the Supervisor	Dr. Mihir K. Patel
	Name and Code of the institute of Supervisor	Kalol Institute of Technology & Research Center (026)
	Supervisor's Designation	Assistant Professor
	Profile Link of Supervisor	https://scholar.google.com/citations?user=2CG2C0AAAAAJ&hl=en
	Supervisor's Research Domain	Renewable Energy, EV, Power Electronics, FACTS
	Research Problems	1. Renewable Energy Sources Optimization 2. Power Quality using FACTS devices 3. EV Operational Controlling Strategy 4. Power System Optimization 5. Power Electronics Converters Use

03	Name of the Supervisor	Dr.Divyesh J. Vaghela
	Name and Code of the institute of Supervisor	Vishwakarma Government Engineering College, Chandkheda (017)
	Supervisor's Designation	Assistant Professor
	Profile Link of Supervisor	https://scholar.google.com/citations?user=LijZ9P0AAAAAJ&hl=en
	Supervisor's Research Domain	Power Electronics and Drives, Application of Power Electronics in Renewable energy sources, Modular Multilevel Converter
	Research Problems	1. Design and Investigation of Model Predictive Control based PWM Rectifier for EV application 2. Development of Advanced Control Strategy for PMSM drive used in EV

04	Name of the Supervisor	Kamani Piyushkumar Lavjibhai
	Name and Code of the institute of Supervisor	Government Engineering College, Bhuj (015)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://scholar.google.com/citations?hl=en&user=UGHkcaoAAAAJ&view_op=list_works&sortby=pubdate
	Supervisor's Research Domain	Power Electronics
	Research Problems	1. The design of an effective modulation technique for multilevel inverters 2. Propose a fault-tolerant modulation technique for multilevel inverters 3. Create a hybrid modulation approach for multilevel inverters that balances harmonic elimination and efficiency under dynamic operating conditions 4. Design a computationally efficient modulation strategy for multilevel inverters to enable real-time implementation on resource-constrained digital controllers 5. Develop a modulation technique for multilevel inverters that minimizes total harmonic distortion while maintaining low switching losses across varying load conditions 6. Enhances fault tolerance to maintain reliable performance in the presence of device failures or system faults

05	Name of the Supervisor	Dr. Ashutosh K Giri
	Name and Code of the institute of Supervisor	Government Engineering College, Bharuch (014)
	Supervisor's Designation	Assistant Professor
	Profile Link of Supervisor	https://chatgpt.com/canvas/shared/687918e69b948191bf61dc720d93b82b
	Supervisor's Research Domain	Power quality, Microgrids, Electrical Vehicle, Intelligent Control Algorithms etc
	Research Problems	1. Power quality, Microgrids, Electrical Vehicle, Intelligent Control Algorithms etc 2. AI control Based renewable Energy Microgrid operation 3. Intelligent EV charging topology and its power control 4. Power quality solutions under disturbance grid conditions with multiple sources

06	Name of the Supervisor	Dr. Ravish H. Hirpara
	Name and Code of the institute of Supervisor	S.N. Patel Institute of Technology (SNPIT), UmraKh,Bardoli, Surat(049)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://www.snpitrc.ac.in/Staff_Profile.aspx?sid=10695
	Supervisor's Research Domain	Control Systems
	Research Problems	1. stochastic dynamical systems 2. Estimation and Filtering 3. Systems and Control 4. Stochastic Differential equation

Chemical Engineering

01	Name of the Supervisor	Prof. Ashish Baldania
	Name and Code of the institute of Supervisor	L.D. College of Engineering, Ahmedabad (028)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://ldce.ac.in/faculty/ashish.baldania.494
	Supervisor's Research Domain	Chemical Engineering, Renewable Energy, Environmental Pollution, Waste Management, Carbon Neutral Technologies
	Research Problems	1. Advanced Catalytic Systems for Removal of Persistent Pollutants in Industrial Effluents Description: The work involves the development of novel catalytic materials for efficient degradation or transformation of toxic pollutants (e.g., heavy metals, dyes, phenols) in wastewater. The focus will be on reaction mechanism studies, catalyst 2. Exploring Photo-Responsive Electrode Assemblies for Clean Hydrogen Generation Description: The project will focus on designing semiconductor-based systems for solar-driven hydrogen production. Emphasis will be given to improving the stability, cost, and conversion efficiency of the water-splitting system using non-toxic materials. 3. Sustainable Conversion of Organic Waste into Biofuels: A Techno-Environmental Study Description: This study aims to optimize biochemical and thermochemical conversion techniques for organic solid waste (agro and food industry residues) into clean fuels like ethanol and biogas. It will integrate process simulation with sustainability indicators. 4. Process Development for CO₂-to-Value Chain: Ethanol and Methanol Synthesis via Catalytic Routes Description: This research explores catalytic transformation of captured CO₂ into value-added fuels such as ethanol and methanol using green hydrogen. The focus will be on catalyst design, reactor configuration, and process intensification techniques under mild operating conditions. 5. Thermochemical Pathways for Plastic Waste Upcycling into Synthetic Fuels and Chemicals Description: This project aims to develop thermochemical processes (e.g., pyrolysis, gasification) to convert mixed plastic waste into synthetic fuels or chemical feedstocks. It will include kinetic modeling, reactor design, and emission profiling to ensure 6. Hybrid Solar-Thermal Desalination Systems for Low-Cost Potable Water Production Description: The research focuses on designing decentralized solar-assisted desalination units that integrate thermal energy storage and membrane technologies. Emphasis will be placed on cost, energy efficiency, and suitability for rural and coastal deployment.

02	Name of the Supervisor	Dr. Vyomesh M. Parsana
	Name and Code of the institute of Supervisor	V.V.P. Engineering College, Rajkot (047)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://vidwan.inflibnet.ac.in/profile/119543
	Supervisor's Research Domain	Thermodynamics and Phase Equilibria, Low-Pressure Vapour-Liquid Equilibrium Measurement, Thermodynamic Property Predictions using Group Contribution Methods & its Modeling
	Research Problems	1. Studies in Vapor-Liquid Equilibria for separation of azeotropic mixtures/dilute solutions using salts 2. Thermodynamic Modeling and Experimental Measurement of Vapor-Liquid Equilibrium of Systems Comprising Green Solvent 3. Ion-specific effects on foams 4. Low Pressure Isobaric Vapor-Liquid Equilibria Measurement and Modeling

03	Name of the Supervisor	Dr. R .K. Mewada
	Name and Code of the institute of Supervisor	L. E. College Morbi (031)
	Supervisor's Designation	Professor
	Profile Link of Supervisor	https://scholar.google.com/citations?user=b2p0lbMAAAAJ&hl=en
	Supervisor's Research Domain	Catalysis and Reaction Engineering, Process and Equipment Design, Process Development with renewable resource utilization
	Research Problems	1. Hydrogen Production through Renewable Energy 2. Hydrogen Production Through Thermochemical Cycle 3. Battery Storage Material 4. Hydrogen production through Biomass 5. Plastic waste Management 6. E-Waste Management

Civil Engineering

01	Name of the Supervisor	Dr. Sejal Purvang Dalal
	Name and Code of the institute of Supervisor	SVIT, Vasad, 041
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://scholar.google.com/citations?user=JqRBbSYAAAAJ
	Supervisor's Research Domain	Structural Engineering
	Research Problems	1. Sustainable Goal Achievement through Nanoengineered Concrete 2. Displacement Based Design of Structures 3. Performance Based Plastic Design of Structures 4. Soil Stabilization through sustainable materials 5. Life cycle Analysis of various materials/structures

02	Name of the Supervisor	Dr. Chirag Natvarlal Patel
	Name and Code of the institute of Supervisor	Government Engineering College, Sector 28, Gandhinagar (013)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://www.gecg28.ac.in/faculty/169
	Supervisor's Research Domain	Structural Analysis, FEM, Earthquake Engineering, Repair & Retrofitting
	Research Problems	1. Development and Validation of a Nonlinear FEM Model for RCC Beam-Column Joints with Bond-Slip and Damage Evolution in ABAQUS 2. FEM-Based Evaluation of Repair Strategies for Seismically Damaged RCC Structures Using Nonlinear Static and Dynamic Re-Analysis 3. Resilience-Based Structural Assessment of Multi-Hazard Exposed Urban Bridges Using Real-Time Monitoring Data 4. FEM-Based Investigation of Masonry Structures Using Discrete Element-FEM Hybrid Modeling Under Dynamic Loading 5. FEM Simulation of Progressive Collapse in Precast Concrete Structures Considering Connection Failures 6. Stochastic FEM Simulation of RC Buildings Under Spatially Varying Seismic Inputs Using Site-Specific Ground Motions

03	Name of the Supervisor	Dr. Pradeep P Lodha
	Name and Code of the institute of Supervisor	Government Engineering College, Bharuch (014)
	Supervisor's Designation	Professor
	Profile Link of Supervisor	www.gecbr.cteguj.in/facultydetail/show/15197
	Supervisor's Research Domain	Water Resources Management
	Research Problems	1. Hydrological modeling 2. Watershed Management 3. Climate impact studies 4. Hydrological parameters analysis 5. River basin management 6. Socio-economic analysis

Computer/IT Engineering

01	Name of the Supervisor	Dr. Sunny H. Bhadlawala
	Name and Code of the institute of Supervisor	Kalyan Polytechnic (983)
	Supervisor's Designation	HOD
	Profile Link of Supervisor	https://kalyanpolytechnic.edu.in/Faculty.aspx
	Supervisor's Research Domain	Cloud Computing
	Research Problems	1. Energy-Efficient Cloud Data Centers 2. Security and Privacy in Multi-Tenant Environments 3. Fault Tolerance and Disaster Recovery in Cloud Systems 4. Cloud-Based Big Data Processing Optimization 5. Cloud Security for IoT Integration 6. Serverless Computing Performance Optimization

02	Name of the Supervisor	Dr. Ajay N. Upadhyaya
	Name and Code of the institute of Supervisor	SAL Engineering & Technical Institute (126)
	Supervisor's Designation	Professor
	Profile Link of Supervisor	https://seti.sal.edu.in/from-principal-desk
	Supervisor's Research Domain	Machine Learning, IOT, Data Science, Security in Ad-hoc Networking
	Research Problems	1. AI-Powered Early Diagnosis of Multi-Disease Risk from Medical Imaging and EHR Data 2. Multi-Modal AI Systems for Mental Health Monitoring Using Voice, Text, and Behavior Data 3. Precision Agriculture using ML-Based Crop Disease Detection from Leaf Images 4. Performance Prediction of Athletes Using Time-Series Physiological Data and Wearables 5. Opponent Behavior Prediction in Competitive Sports Using Sequential Modeling 6. Gesture-Based Communication System for Speech and Hearing-Impaired Individuals Using Real-Time Sign Language Recognition

03	Name of the Supervisor	Dr. Hiteishi Diwanji
	Name and Code of the institute of Supervisor	L.D.College of Engineering (028)
	Supervisor's Designation	Professor
	Profile Link of Supervisor	https://ldce.ac.in/departments/information-technology/faculties
	Supervisor's Research Domain	Information and Network Security, Data science, Machine learning
	Research Problems	1. carbon emission calculation for Electronic items for small - medium scale IT industry to data centers and Policy for Carbon footprint management in IT sector 2. Advanced Persistent Threats, Breach and Botnet Detection system using network traffic analysis 3. Developing AI agent to predict the financial fraud through Cyber attack

Electronics and Communication Engineering

01	Name of the Supervisor	Prof. Gautam D. Makwana
	Name and Code of the institute of Supervisor	GTU School of Engineering and Technology, Ahmedabad (137)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://set.gtu.ac.in/wp-content/uploads/2023/01/GDM.pdf
	Supervisor's Research Domain	5G/6G Communication, Antenna & RF Engineering, IoT, AI & ML, VLSI/Semiconductor
	Research Problems	1. Investigation of Wide Band Wide Beam Circularly Polarized Antenna for Anti-Drone Sytem 2. Development of 5G/6G Enabled IoT Predictive System for Healthcare/Airport/ Applications 3. Investigation of Novel Mixed Signals Semiconductor Chips using AI 4. Development of Crowd Surveillance System using ML 5. Integration of IoT, ML & AL for Waste/Water Management 6. Development of 6G Standards

02	Name of the Supervisor	Dr. Alpesh H. Dafda
	Name and Code of the institute of Supervisor	Government Engineering College, Modasa (016)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://www.gecmodasa.ac.in/departments/ec/faculties/faculty-profile.php?f_username=ec_ahd
	Supervisor's Research Domain	Wireless and Wired Communications, Image Processing and Applications, AI and ML.
	Research Problems	1. Secure and Privacy-Preserving Wireless Communication 2. Real-Time Deep Learning for Edge Image Processing 3. Deepfake Detection with Cross-Modal Learning 4. AI for Hyperspectral Image Classification 5. Explainable AI for Critical Decision Systems 6. Energy-Efficient and Green AI Training

03	Name of the Supervisor	Dr. C.H. Vithalani
	Name and Code of the institute of Supervisor	L.D. College of Engineering, Ahmedabad (028)
	Supervisor's Designation	Professor
	Profile Link of Supervisor	https://ldce.ac.in/faculty/chandulal.vithalani.324
	Supervisor's Research Domain	Electronics and Communication Engineering
	Research Problems	1. Design and Development of an Intelligent Electronic Pulse Diagnosis System for Quantitative Analysis of Pulse Characteristics and Assessment of Tridosha Imbalance in Ayurvedic Medicine

04	Name of the Supervisor	Dr. Anilkumar Suthar
	Name and Code of the institute of Supervisor	Shankersinh Vaghela Bapu Institute of Technology (075)
	Supervisor's Designation	Principal
	Profile Link of Supervisor	https://www.linkedin.com/in/dr-anil-suthar-2133871a/
	Supervisor's Research Domain	Image Processing, Signal Processing,
	Research Problems	1. Improving security in IoT connectivity and resolving vulnerabilities in embedded systems. 2. Enhancing the accuracy and resilience of AI-powered Image/speech recognition systems 3. Creating effective real-time processing capabilities for edge devices in IoT and autonomous systems. 4. Creating AI-powered solutions for healthcare applications such as telemedicine, patient monitoring, and illness diagnosis. 5. Machine learning methods to improve object detections 6. Investigating strategies to safeguard embedded systems from cyber attacks.

05	Name of the Supervisor	Dr. Avani Vithalani
	Name and Code of the institute of Supervisor	L. D. College of Engineering, Ahmedabad (028)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://ldce.ac.in/faculty/avani.vithalani.323
	Supervisor's Research Domain	Wireless Communication, Deep Learning, IoT, AI, Image and Video Processing
	Research Problems	1. Deep Learning-Based Spectrum Sensing for Cognitive Radio Networks 2. Dynamic Spectrum Management in Multi-User Cognitive Radio Networks 3. Resource Allocation in Cognitive Radio Networks for 5G and Beyond 4. Channel Estimation and Feedback Techniques for Massive MIMO in High-Mobility Environments 5. Power Allocation Optimization for Downlink NOMA in Multi-Cell Networks

Biomedical Engineering

01	Name of the Supervisor	Dr. Vijay P. Dave
	Name and Code of the institute of Supervisor	Government Engineering College, Gandhinagar (013)
	Supervisor's Designation	Assistant Professor
	Profile Link of Supervisor	https://gecg28.ac.in/faculty/60
	Supervisor's Research Domain	Computational Neurophysiology, Human Sensory and Motor System, Brain-Computer Interfacing (BCI), Bionics
	Research Problems	1. Multifusion approach for the detection of Epilepsy. The approach involves combining data from various sensors or using multiple techniques in conjunction to detect the onset of seizure. This will improve the accuracy, reliability, and robustness of seizure detection. This approach aims to overcome the limitations of relying on a single data

Mechanical Engineering

01	Name of the Supervisor	Dr. Pujara Akshay Ashvinkumar
	Name and Code of the institute of Supervisor	Vishwakarma Government of Engineering College, Chandkheda (017)
	Supervisor's Designation	Assistant Professor
	Profile Link of Supervisor	https://scholar.google.com/citations?user=y8EwZXkAAAAJ&hl=en
	Supervisor's Research Domain	Industrial Engineering Optimization
	Research Problems	1. Implementation of Industry 4.0 in SMEs

02	Name of the Supervisor	Dr. Hirenkumar Rameshbhai Prajapati
	Name and Code of the institute of Supervisor	Government Engineering College, Patan (022)
	Supervisor's Designation	Assistant Professor
	Profile Link of Supervisor	NA
	Supervisor's Research Domain	Design-Dynamics and Manufacturing
	Research Problems	1. Experimental Investigation on weldability, mechanical, metallurgical and corrosion properties of Austenitic Stainless-Steel family (304,303,316,321,347)

Pharmacy

01	Name of the Supervisor	Dr. Ashvinkumar Dudhrejiya
	Name and Code of the institute of Supervisor	B. K. Modi Government Pharmacy College, Rajkot (212)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://scholar.google.com/citations?user=2g0NF6kAAAAJ&hl=en
	Supervisor's Research Domain	Pharmacy
	Research Problems	1. Herbal Drug evaluation for various pharmacological activity 2. Studies on Anti Cancer Activity of Plant drug research 3. Analytical method development of Various Alopathic drugs

02	Name of the Supervisor	Dr. Vidhi Shah
	Name and Code of the institute of Supervisor	L. M. College of Pharmacy (228)
	Supervisor's Designation	Assistant Professor
	Profile Link of Supervisor	https://scholar.google.com/citations?user=uxN4jK4AAAAJ&hl=en
	Supervisor's Research Domain	Pharmaceutics
	Research Problems	1. Solubility of BCS class-2 drugs 2. Novel drug delivery for topical and transdermal delivery

03	Name of the Supervisor	Dr. Rakeshkumar Parmar
	Name and Code of the institute of Supervisor	Sardar Patel College of Pharmacy, Bakrol (244)
	Supervisor's Designation	Professor
	Profile Link of Supervisor	https://vidwan.inflibnet.ac.in/profile/433908
	Supervisor's Research Domain	Microbial Resistance Development, Novel Drug Delivery
	Research Problems	1. Research Funding 2. Research Facilities

04	Name of the Supervisor	Patel Chhaganbhai Nanjibhai
	Name and Code of the institute of Supervisor	Shri Sarvajanik Pharmacy College, Mehsana (245)
	Supervisor's Designation	Professor
	Profile Link of Supervisor	https://drive.google.com/file/d/1sIR_bQ3r-qM_KS-pajFLqK7f89kKN-Xz/view?usp=sharing
	Supervisor's Research Domain	Pharmaceutical Chemistry & Pharmaceutical Analysis
	Research Problems	1. Synthesis and Evaluation of Novel Molecules for Therapeutical Purposes 2. Analytical Method Development and Validation for API and that is Dosage Forms with QbD Approach

05	Name of the Supervisor	Dr. Santoshkumar Vaidya
	Name and Code of the institute of Supervisor	Shankersinh Vaghela Bapu Institute of Pharmacy, VAsan, Gandhinagar
	Supervisor's Designation	Professor
	Profile Link of Supervisor	skvaidya1979@gmail.com
	Supervisor's Research Domain	Pharmacy
	Research Problems	1. University Establish centralized research facilities for research scholar like Preclinical, clinical and analytical

06	Name of the Supervisor	Dr. Palak Kirtibhai Parikh
	Name and Code of the institute of Supervisor	L. M. College of Pharmacy, Ahmedabad (228)
	Supervisor's Designation	Assistant Professor
	Profile Link of Supervisor	https://scholar.google.com/citations?user=6v_zVl4AAAAJ&hl=en
	Supervisor's Research Domain	Pharmaceutical Chemistry and Quality Assurance
	Research Problems	1. Design, Synthesis and Evaluation of Small Molecule Heterocycles as Anticancer Agents 2. Design, Synthesis and Evaluation of Small Molecule Heterocycles as Antitubercular Agents 3. Design, Synthesis and Evaluation of Small Molecule Heterocycles as Anti-Alzheimer's Agents 4. Analytical Method Development and Validation for Pharmaceuticals and Impurities

07	Name of the Supervisor	Dr. Sandip Pravinbhai Dholakia
	Name and Code of the institute of Supervisor	L. M. College of Pharmacy, Ahmedabad (228)
	Supervisor's Designation	Assistant Professor
	Profile Link of Supervisor	https://scholar.google.com/citations?user=7GaUkfkAAAAJ&hl=en
	Supervisor's Research Domain	Pharmacy (Pharmaceutical QA and Medicinal Chemistry)
	Research Problems	1. Designing and Synthesis of Anticancer Agents 2. Designing and Synthesis of Antifungal Agents 3. Method Development and Validation of APIs and Formulations 4. Cleaning Validation of Instruments and Facility used in Pharmaceutical Dosage Form Manufacturing

08	Name of the Supervisor	Dr. Akshaykumar Harshadkumar Shah
	Name and Code of the institute of Supervisor	Anand Pharmacy College (205)
	Supervisor's Designation	Professor
	Profile Link of Supervisor	https://orcid.org/0000-0001-6095-2749
	Supervisor's Research Domain	Pharmacology and Pharmacy Practice
	Research Problems	1. Post-marketing surveillance of adverse drug reactions associated with biosimilars in oncology patients: A multicentric study.z 2. A pharmacological study on assessment of the role of gut-brain axis modulators

Metallurgy Engineering

01	Name of the Supervisor	Dr. Daulat Kumar Sharma
	Name and Code of the institute of Supervisor	Government Engineering College, Gandhinagar (013)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://www.gecg28.ac.in/faculty/32
	Supervisor's Research Domain	Solid State Processing, Composites, Corrosion, Wear, Friction-based Processing, Surface Modification, etc.
	Research Problems	1. Development of Wear-Resistant Composites / Hybrid Materials 2. Surface Modification for Enhanced Wear / Corrosion Resistance 3. Corrosion Behaviour of Advanced Alloys/ Additive Manufacturing Materials 4. Mechanical / Corrosion study of Friction Stir Welding Joints 5. Tailoring Coating Properties via Deposition Techniques 6. Wear study of Additively Manufactured Materials / Advanced Alloys

Management

01	Name of the Supervisor	Dr. Vijay Pithadia
	Name and Code of the institute of Supervisor	Shree Swaminarayan Institute of Management & I.T., Porbandar (810)
	Supervisor's Designation	Director
	Profile Link of Supervisor	https://www.vijaypithadia.in/
	Supervisor's Research Domain	Business
	Research Problems	1. The impact of technology on education 2. The role of artificial intelligence in learning 3. The promotion of mental health 4. The well-being in students and teachers 5. The ethics of AI in healthcare 6. The effects of climate change on global food security

02	Name of the Supervisor	Dr. Indra Meghrajani
	Name and Code of the institute of Supervisor	Narayana Business School (838)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://nbs.edu.in/faculty-and-insights/
	Supervisor's Research Domain	Marketing
	Research Problems	1. Influencer marketing 2. AI and marketing 3. consumer behavior 4. Digital marketing 5. New and popular digital advertising formats, channels, and platforms, including advancements in social media marketing, programmatic advertising, and immersive technologies

03	Name of the Supervisor	Dr. Ankit Gandhi
	Name and Code of the institute of Supervisor	Tolani Motwane Institute of Management Studies, 836
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://www.linkedin.com/in/ankit-gandhi-b1b37553/
	Supervisor's Research Domain	Green Marketing, Consumer Behavior, Energy Saving Measure, Sustainable Development, Digital Marketing, Influencer Marketing
	Research Problems	1. Consumer Behaviour towards Protective motorcycle apparel 2. Greenwashing prevention in environmental, social, and governance (ESG) disclosures 3. YouTube: an analysis of the impact on buying behaviour of young consumers 4. Impact of Pradhan Mantri Bhartiya Janaushadhi Pariyojana 5. Navigating the new era of influencer marketing: The role of Travel Influencers 6. Impulsive Buying behavior with regards to Social Media Marketing

04	Name of the Supervisor	Dr. Urvi Amin
	Name and Code of the institute of Supervisor	Shri Jairambhai Patel Institute of Business Management and Computer Application, Gandhinagar (769)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://www.linkedin.com/in/prof-urvi-amin-33813a23/
	Supervisor's Research Domain	Financial literacy, Financial Digital literacy, Digital arrest.
	Research Problems	1. Financial Digital Literacy 2. Digital Wallets 3. Behavioral Finance 4. Cybersecurity breaches, phishing, fraud perception, digital literacy 5. Fintech adoption 6. UPI

05	Name of the Supervisor	Dr. Rimple Gamadia
	Name and Code of the institute of Supervisor	C. K. Shah Vijapurwala Institute of Management (705)
	Supervisor's Designation	Assistant Professor
	Profile Link of Supervisor	https://vidwan.inflibnet.ac.in/profile/626274
	Supervisor's Research Domain	Human Resource Management & General Management
	Research Problems	1. A study on assessing Remote Work Impact on Female Employees' Well-being and Career Growth in the multinational organizations in any city/Gujarat state 2. Adoption of Sustainable Business Practices: A study of Promoting Sustainable Practices in SMEs of any city/Gujarat state. 3. A Comparative Study of AI-Driven vs. Traditional Engagement Practices and Their Organizational Outcomes in manufacturing firms operating in any city/Gujarat state.

06	Name of the Supervisor	Dr. Snehalkumar H. Mistry
	Name and Code of the institute of Supervisor	Vidyabharti Trust College of Business, Computer science and Research (574)
	Supervisor's Designation	Professor
	Profile Link of Supervisor	https://drsnehalmistry.weebly.com/
	Supervisor's Research Domain	Management and allied areas
	Research Problems	1. AI and its impact on Job market 2. How Deep Learning will affect the sales decision 3. Effect of Social media marketing on Genration Alpha

07	Name of the Supervisor	Prof. (Dr.) Tejash Pujara
	Name and Code of the institute of Supervisor	Tolani Motwane Institute of Management Studies (836)
	Supervisor's Designation	Professor
	Profile Link of Supervisor	https://www.linkedin.com/in/prof-dr-tejash-pujara-a55a6b9/
	Supervisor's Research Domain	Strategy, Sustainability, Information Systems
	Research Problems	1. How to measure the lifestyle of a person from a sustainability perspective? 2. What are the sustainability certifications and their role in consumer decision-making? 3. What are the drivers and barriers to adopting sustainable practices in SMEs and family-owned businesses? 4. What is the contribution of Jan Aushdhi Kendra in achieving SDG3 (Good Health and Well-being). 5. What is the impact of Digital India initiative in achieving SDGs.

08	Name of the Supervisor	Dr. Neha Patel
	Name and Code of the institute of Supervisor	Som Lalit Institute of Management Studies (778)
	Supervisor's Designation	Professor
	Profile Link of Supervisor	https://www.linkedin.com/in/dr-neha-patel-3131b928/
	Supervisor's Research Domain	Marketing
	Research Problems	1. Understanding the Evolving Consumer Behavior in Tier I, II and Rural Markets of India Post-Digitalization and AI Integration. 2. How do digital storytelling techniques impact consumer perceptions of authenticity 3. How do regional identities influence brand positioning and loyalty 4. What is the role of influencers and user-generated content in shaping brand narratives? 5. Effectiveness of Integrated Marketing Communication (IMC) Strategies in Creating Sustainable Brand Equity 6. Emotional quotient of sales professionals influence client acquisition and retention, especially in high-involvement products

Science - Physics

01	Name of the Supervisor	Dr. Harshad S. Bhutadia
	Name and Code of the institute of Supervisor	Government Engineering College, Gandhinagar (22)
	Supervisor's Designation	Assistant Professor
	Profile Link of Supervisor	https://scholar.google.com/citations?hl=en&user=Y4xvoAoAAAAJ
	Supervisor's Research Domain	Atomic and Molecular Physics
	Research Problems	1. Disparity in data formats, units, and lack of comprehensive, up-to-date databases impedes reproducibility and comparison. 2. Cross section calculations for large, polyatomic molecules (e.g., biomolecules, polymers, organometallics) are underdeveloped. 3. Manual calculation or data fitting is time-consuming and not easily generalizable. 4. There are often unexplained deviations between theoretical models and experimental measurements. 5. Most data are angle-integrated and time-independent, which limits insights into dynamic or anisotropic processes 6. Electron impact leads to secondary ionization and excitation cascades, which are often not accounted for in primary cross section models.

02	Name of the Supervisor	Dr. Sanjay Kumar Singhal
	Name and Code of the institute of Supervisor	Vishwakarma Government Engineering College, Chandkheda (17)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://scholar.google.com/citations?user=iaQVKYYAAAJ&hl=en
	Supervisor's Research Domain	Nanomaterials and their application, Neutron resonance parameters
	Research Problems	1. Structural, Dielectric, Magnetic and other comparative studies of synthesised nanomaterials and their applications 2. Synthesis, Characterisation and electromagnetic shielding applications of nanomaterials 3. Synthesis, Characterisation and dye degradation applications of nanomaterials

03	Name of the Supervisor	Dr. Mehulkumar Hasmukhlal Mangrola
	Name and Code of the institute of Supervisor	R. N. G. Patel Institute of Technology (084)
	Supervisor's Designation	Associate Professor
	Profile Link of Supervisor	https://www.linkedin.com/in/dr-mehulkumar-mangrola-13899915?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_app
	Supervisor's Research Domain	Nanotechnology, Thin film, Material Science, Experimental Condensed Matter Physics
	Research Problems	1. Synthesis and Characterization of Graphene Quantum dots for Energy storage device 2. TiO₂ nanoparticles Doped Graphene sheet for sensor 3. Ag and CuO nanoparticles Doped with Graphene Oxide nanoparticles for Various applications 4. Synthesis of Silver, Copper and Graphene nanoparticles for Various applications in different fields 5. Synthesis of Reduced Graphene Oxide nanoparticles for different Applications

Science-Mathematics

01	Name of the Supervisor	Dr. Urmila B. Chaudhari
	Name and Code of the institute of Supervisor	Government Polytechnic Dahod (631)
	Supervisor's Designation	Lecturer
	Profile Link of Supervisor	https://scholar.google.com/citations?user=g--mAJgAAAAJ&hl=en
	Supervisor's Research Domain	Inventory modelling, supply chain management
	Research Problems	1. In modern supply chain systems, managing inventories of deteriorating items—such as food, pharmaceuticals, and seasonal goods—poses significant challenges due to their limited shelf life. Simultaneously, the increasing pressure for environmentally sustainable practices demands that businesses account for carbon emissions, waste disposal, and energy consumption in their inventory decisions. Furthermore, trade credit—a common business practice where suppliers offer delayed payment options—affects a firm's cash flow and inventory strategy. Despite several studies on deteriorating inventory models and trade credit, limited research has integrated environmental sustainability into such models. Most existing models focus primarily on economic optimization while neglecting the ecological impact of inventory decisions and the financial advantage of trade credit.

02	Name of the Supervisor	Dr. Brijesh Kumar A. Tripathi
	Name and Code of the institute of Supervisor	L. D. College of Engineering Ahmedabad (028)
	Supervisor's Designation	Assistant Professor
	Profile Link of Supervisor	https://scholar.google.com/citations?user=XxCA9lsAAAAJ&hl=en
	Supervisor's Research Domain	Differential Geometry
	Research Problems	1. Study of Transformed Finsler Manifolds and Special Finsler Spaces 2. A study of Differential Geometry on Finsler Spaces 3. Differential Geometric Structures and Curvature in Finsler Spaces 4. Geodesics, Connections, and Curvature in Finsler Geometry

Humanity - English

01	Name of the Supervisor	Dr. Dhvani Vaishnav
	Name and Code of the institute of Supervisor	Shantilal Shah Engineering College, Bhavnagar (043)
	Supervisor's Designation	Assistant Professor
	Profile Link of Supervisor	NA
	Supervisor's Research Domain	English Literature
	Research Problems	1. Comparative Study Minor Genres with Established Genre 2. Critical Study of Minor Genre 3. Women's Study 4. Relationship Trends and their Narration in Literature