



**GUJARAT
TECHNOLOGICAL
UNIVERSITY**
AN INTERNATIONAL INNOVATIVE UNIVERSITY
(Accredited with A+ Grade by NAAC)
State Government University

Bulletin - Research & Academic Publications

January-March, 2025

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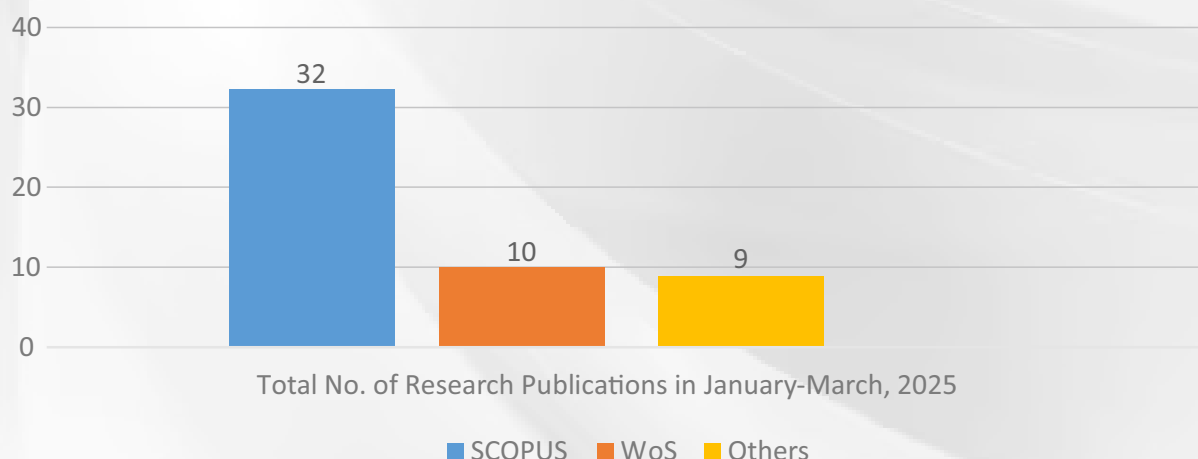
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SUMMARY (Jan-Mar, 2025)

Sr. No.	Title	No.
01	Research Projects	1
02	Research Papers	SCOPUS 32
		WoS 10
		Others 9
03	Patents	Utility 1
		Design 1
04	Books	11
05	Awarded Ph.D. Thesis Abstract	31

Total No. of Research Publications in January-March 2025



MESSAGE FROM HON'BLE VICE CHANCELLOR



Dear Faculty Members and Researchers,

It is a great pleasure to release the seventh successive issue of R&D bulletin, which celebrates your remarkable achievements and also highlights the commitment to enhance knowledge. These accomplishments reflect your dedication to advancing academic and research excellence.

At GTU, we foster a vibrant and evolving research ecosystem, driven by the unwavering commitment of our esteemed faculty and dedicated researchers. Together, we are building a strong foundation for a future enriched by impactful contributions across engineering and technology, pharmacy, management, applied sciences, and multidisciplinary domains.

Your scholarly publications play a crucial role in advancing sustainable development. The knowledge generated through your research brings us closer to realizing our vision of a just, inclusive, and sustainable society.

This bulletin serves as a platform to extend the reach of our work, engaging a broader and more diverse audience—including research organizations and industrial partners who share our aspiration for meaningful progress.

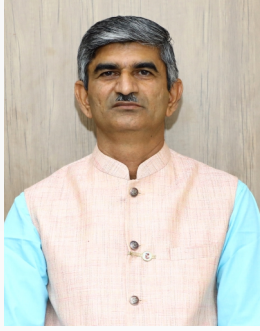
Congratulations to all those whose work is featured in this bulletin. Please reach out to the GTU- R&D Cell, for your research contributions, which works actively to bring together researchers, industry and innovators.

Best Wishes,

Dr. Rajul K. Gajjar
Vice Chancellor,
GTU, Ahmedabad



MESSAGE FROM REGISTRAR



Dear Faculty Members, Students and Researchers,

Research is a journey towards exploration and discovery wherein universities have to play a pivotal role in advancing knowledge and innovation. The outcome of the research activities contribute significantly in building sustainable communities for societal progress. Research, at its core, has a potential to drive meaningful transformation and enhance the quality of lives of individuals.

With the release of this quarterly bulletin we are pleased to showcase our research initiatives across various disciplines. We encourage all our researchers to engage in collaborative and interdisciplinary research brining out positive transformations that impacts and improves the quality of life.

Let us embark on a journey of intellectual inquiry and critical thinking- one that enables us to shape a brighter future through research. We urge you to harness the power of research to build a brighter future for humanity.

This bulletin serves as an important source of information within the academic community, and I congratulate to all those who have contributed to the conceptualization and publication of this edition.

Regards,



Dr. K. N. Kher
Registrar, GTU, Ahmedabad

MESSAGE FROM DIRECTOR, RDC



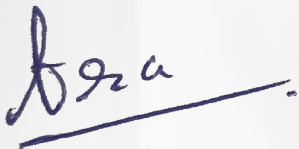
The R & D Cell of the University is presenting the first issue (Volume-II) of Research and Academic publications; highlighting the comprehensive information of scholarly articles published by GTU's academic fraternity. It highlights research projects, research papers, patents, books and abstracts of Ph.D. thesis published by research scholars and research supervisors during the past three months (i.e. Jan and March, 2025).

R & D Cell-GTU have continued to publish this bulletin at regular intervals. It is a kind request to all our research scholars and research supervisors to provide the requested data to help us with the release of this bulletin.

We would request all the stakeholders of GTU to circulate this bulletin among the academic and scientific fraternity to enhance visibility of the research data of the university.

University has strong collaborations with SAC-ISRO, IPR, PRL, CSMCRI, INFLIBNET, and IIT – Gandhinagar. You may explore to associate with scientists/professors of these organizations which may provide an opportunity to contribute on projects of national importance and to come out with quality publications as well as access of state-of-the-art research facilities at this Institutes. We will make every efforts to facilitate connections and collaborations with the relevant experts from these organizations.

I congratulate the team of R & D Cell for their sincere efforts in collection of research data and bringing out this bulletin.



Dr. R. A. Thakker
Director – R & D Cell
GTU – Ahmedabad

RESEARCH PROJECTS

01

Name of Institute	V.V.P. Engineering College (047)
Title of Research project	Design, Implementation and Techno-commercial Analysis of Hybrid Nano-Grid Under Dynamic Conditions
Name of the PI	Dr. Sachin Vrajilal Rajani
Name of Co-PI (if any)	Dr. Rupesh Ramani
Name of the Institute of Co-PI	V.V.P. Engineering College (047)
Name of the Granting Agency	Gujarat Council on Science and Technology (GUJCOST), Gandhinagar
Type of Granting Agency	Govt.
Date of Award	25-04-2023
Start Date of Research Project	01-06-2023
End Date of Research Project	30-06-2025
Amount Sanctioned (in INR or US dollars)	Rs. 4,88,600
Upload a Copy of Sanctioned Letter	https://drive.google.com/u/0/open?usp=forms_web&id=1aHAGmOVTEgQcD1j1aeJzgQ-ffjFoTzD4
Specify the SDG	Quality Education, Affordable and Clean Energy, Industry, Innovation and Infrastructure, Sustainable Cities and Communities, Responsible Consumption and Production, Climate Action

RESEARCH PAPERS

Research Papers (Engineering-Supervisors)

01

Name of Institute	Government Engineering College, Bharuch (014)
Title of Article	Power Management and Adaptive Control Method for a Standalone Distributed Generation System under Fault, DC-offset, and Dynamic Environments
Name of Authors	Sombir Kundu, Ashutosh K. Giri, Sunil Kadiyan, Surender Singh
Name of Corresponding Author	Sombir Kundu
Name of the Journal	International Journal of Ambient Energy
Indexed	SCOPUS
ISSN No.	0143-0750
URL	https://www.tandfonline.com/doi/full/10.1080/01430750.2025.2452245
Date of Publication	21-01-2025
SDG	Affordable and Clean Energy

02

Name of Institute	L.D. College of Engineering, Ahmedabad (028)
Title of Article	An Approach for Real Time Implementation of Charging of Shunt Reactor using Point on Wave Technique with variable Pre-insertion Resistor
Name of Authors	S.N. Shivani, Dr. Bhargav Vyas, Dr. K. A. Bhatt, Mr. Meet I. Bhavsar, Mr. Vrushang M. Mistry
Name of Corresponding Author	Dr. Bhargav Vyas
Name of the Journal	Journal of the Institution of Engineers (India): Series B
Indexed	SCOPUS
ISSN No.	2250-2114
URL	https://doi.org/10.1007/s40031-025-01208-1
Date of Publication	04-03-2025
SDG	Industry, Innovation and Infrastructure

03

Name of Institute	Government Engineering College, Valsad (019)
Title of Article	Experimental study of wick materials and funnel surface inclination angle on square pyramid solar still in the winter season
Name of Authors	Shirish K. Patel, Kalpesh V. Modi
Name of Corresponding Author	Dr.Kalpesh V. Modi
Name of the Journal	International Journal of Ambient Energy
Indexed	SCOPUS
ISSN No.	2162-8246
URL	https://doi.org/10.1080/01430750.2025.2471401
Date of Publication	07-03-2025
SDG	Affordable and Clean Energy

04

Name of Institute	L.D. College of Engineering, Ahmedabad (028)
Title of Article	Self-Cleaning Ag-TiO ₂ Heterojunction Grafted on a 3D-Printed Metal Substrate: Photocatalytic Degradation of Rhodamine B and Surface-Enhanced Raman Spectroscopic Monitoring of Kinetics
Name of Authors	Uzma Malik, Maciej Mazur, Dharmendra D. Mandaliya, Ravindra D. Gudi, Selvakannan Periasamy, Suresh K. Bhargava
Name of Corresponding Author	Suresh K. Bhargava
Name of the Journal	ACS Omega
Indexed	SCOPUS
ISSN No.	2470-1343
URL	https://pubs.acs.org/doi/full/10.1021/acsomega.4c11672
Date of Publication	25-03-2025
SDG	Decent Work and Economic Growth, Industry, Innovation and Infrastructure, Sustainable Cities and Communities

05

Name of Institute	R. N. G. Patel Institute of Technology-RNGPIT (084)
Title of Article	Viscosity reduction and stability study of Indian heavy crude oil/water emulsion using hydrogenated castor oil ethoxylate with 40 moles of ethylene oxide as surfactant
Name of Authors	Shreyas Desai, Mousumi Chakraborty, Arun Kumar Jana, Himanshu P. Kohli
Name of Corresponding Author	Mousumi Chakraborty
Name of the Journal	Results in Surfaces and Interfaces
Indexed	SCOPUS
ISSN No.	2666-8459
URL	https://www.sciencedirect.com/science/article/pii/S2666845925000911
Date of Publication	26-03-2025
SDG	Industry, Innovation and Infrastructure

06

Name of Institute	VVP Engineering College, Rajkot (047)
Title of Article	Survey on sport video analysis and event detection
Name of Authors	Suhas H. Patel, Dipesh Kamdar
Name of Corresponding Author	Suhas H. Patel
Name of the Journal	International Journal of Autonomous and Adaptive Communications Systems
Indexed	WoS
ISSN No.	1754-8632
URL	https://doi.org/10.1504/IJAACS.2025.144266
Date of Publication	04-02-2025
SDG	Industry, Innovation and Infrastructure

07

Name of Institute	L. D. College of Engineering, Ahmedabad (028)
Title of Article	Selective double dehydration of sorbitol to isosorbide using sulfated SnO ₂ and sulfated SnO ₂ /H β as heterogeneous catalyst
Name of Authors	Jay B. Trivedi, Paresh H. Rana
Name of Corresponding Author	Paresh H. Rana
Name of the Journal	Research on Chemical Intermediates
Indexed	WoS
ISSN No.	1568-5675
URL	https://link.springer.com/article/10.1007/s11164-025-05533-4
Date of Publication	22-02-2025
SDG	Affordable and Clean Energy

08

Name of Institute	Government Engineering College, Bharuch (014)
Title of Article	Metaheuristic Adaptive Input Output Feedback Linearization Control for BLDC Motor Drive
Name of Authors	Dhaval Joshi, Dipankar deb, Ashutosh K. Giri
Name of Corresponding Author	Dhaval Joshi
Name of the Journal	IEEE Transactions on Consumer Electronics
Indexed	WoS
ISSN No.	0098-3063
URL	https://ieeexplore.ieee.org/document/10935654
Date of Publication	20-03-2025
SDG	Quality Education, Clean Water and Sanitation

Name of Institute	Government engineering college Dahod (018)
Title of Article	Performance Analysis of Desiccant-Assisted Dehumidification and Hybrid Cooling System in Tropical Climate of India
Name of Authors	D.B.Jani, Manish Mishra, P.K. Sahoo
Name of Corresponding Author	Dr. D. B. Jani
Name of the Journal	Refrigeration and Air Conditioning
Indexed	Others
ISSN No.	1943-6637
URL	https://www.researchgate.net/publication/388451831_Performance_Analysis_of_DesiccantAssisted_Dehumidification_and_Hybrid_Cooling_System_in_Tropical_Climate_of_India
Date of Publication	28-01-2025
SDG	Clean Water and Sanitation

Research Papers (Pharmacy-Supervisors)

01

Name of Institute	APMC College of Pharmaceutical Education and Research, Himatnagar (207)
Title of Article	A novel LC-MS/MS technique for identification and characterization of degradation products of Bilastine and Montelukast sodium and its greenness assessment using AGREE tool
Name of Authors	Sapna M. Rathod, Nisarg C. Patel, Riyaz Dantoliya, Bhupendra G. Prajapati
Name of Corresponding Author	Sapna M. Rathod
Name of the Journal	Journal of Applied Pharmaceutical Science
Indexed	SCOPUS
ISSN No.	2231-3354
URL	https://japsonline.com/abstract.php?article_id=4451&sts=2
Date of Publication	05-01-2025
SDG	Affordable and Clean Energy

02

Name of Institute	Dr. Dayaram Patel Pharmacy College Bardoli Gujarat (406)
Title of Article	Polymeric Nano-discs: A Versatile Nanocarrier Platform for Delivering Topical Theranostics
Name of Authors	Devesh U. Kapoor, Mansi Gaur, Hetal Hingalajia, Sudarshan Singh and Bhupendra G. Prajapati
Name of Corresponding Author	Bhupendra G. Prajapati
Name of the Journal	Pharmaceutical Nanotechnology
Indexed	SCOPUS
ISSN No.	2211-7393
URL	https://pubmed.ncbi.nlm.nih.gov/39835567/
Date of Publication	17-01-2025
SDG	Good Health and Well-being

03

Name of Institute	Dr. Dayaram Patel Pharmacy College Bardoli Gujarat (406)
Title of Article	Revolutionizing Cancer Treatment: The Role of Starch-Based Nanoparticles in Targeted Therapy
Name of Authors	DeveshU.Kapoor, GeetaPatel, BhupendraG.Prajapati
Name of Corresponding Author	Bhupendra G. Prajapati
Name of the Journal	Starch/Staerke
Indexed	SCOPUS
ISSN No.	1521-379X
URL	https://onlinelibrary.wiley.com/doi/10.1002/star.202400251
Date of Publication	10-02-2025
SDG	Good Health and Well-being

04

Name of Institute	Dr. Dayaram Patel Pharmacy College Bardoli Gujarat (406)
Title of Article	Navigating COVID-19: Advancements in therapeutics and viral filtration technologies for Today's challenges and tomorrow's solutions
Name of Authors	Devesh Kapoor, Bhavna Kumar, Manmohan Singhal, Faiza Himasa Idris, Sonam M. Gandhi, Sankha Bhattacharya, Bhupendra G. Prajapati, Rahul Maheshwari
Name of Corresponding Author	Rahul Maheshwari
Name of the Journal	Journal of Drug Delivery Science and Technology
Indexed	SCOPUS
ISSN No.	1773-2247
URL	https://www.sciencedirect.com/science/article/abs/pii/S1773224725001443?via%3Dihub
Date of Publication	21-02-2025
SDG	Good Health and Well-being

05

Name of Institute	Dr. Dayaram Patel Pharmacy College Bardoli Gujarat (406)
Title of Article	Harnessing the potential of nanoprisms for diagnostic and therapeutic applications
Name of Authors	Radhika Joshi, Swapnil Sharma, Nemat Ali, Ghazala Muteeb, Mohammad Fareed, Prawez Alam, Devesh U. Kapoor, Bhupendra G. Prajapati
Name of Corresponding Author	Devesh U Kapoor
Name of the Journal	Colloid and Interface Science Communications
Indexed	SCOPUS
ISSN No.	2215-0382
URL	https://www.sciencedirect.com/science/article/pii/S221503822500010X
Date of Publication	25-02-2025
SDG	Good Health and Well-being

06

Name of Institute	Dr. Dayaram Patel Pharmacy College Bardoli Gujarat (406)
Title of Article	Enhancing vaginal drug delivery: the nanoemulsion gel strategy
Name of Authors	Biswajit Basu, Dipanjana Ash, Ayon Dutta, Rajdip Goswami, Swarnali Dutta, Kevin Garala, Gehan M. Elossaily, Devesh U. Kapoor and Bhupendra G. Prajapati
Name of Corresponding Author	Bhupendra G. Prajapati
Name of the Journal	Zeitschrift fur Naturforschung – Secion C Journal of Biosciences
Indexed	SCOPUS
ISSN No.	1865-7125
URL	https://www.degruyterbrill.com/document/doi/10.1515/znc-2024-0239/html?srsId=AfmBOopqH5FUrYoMazni3s4WxOdPchcQDq87SPNsgLXv-tEcqYMS0yee
Date of Publication	27-02-2025
SDG	Good Health and Well-being

07

Name of Institute	Shree Naranjibhai Lalbhai Patel College of Pharmacy (268)
Title of Article	Development and validation of a novel simultaneous equation and Q-absorbance ratio method for the quantitative estimation of atenolol and hydrochlorothiazide in combined tablet dosage forms: A green analytical chemistry approach
Name of Authors	Ashok H. Akabari, Divya K. Solanki, Sagarkumar K. Patel, Palak Desai, Gamit Jainisha, Bhavesh Patel, Birenkumar N. Shah, Ketan V. Shah
Name of Corresponding Author	Ashok H. Akabari
Name of the Journal	Green Analytical Chemistry
Indexed	SCOPUS
ISSN No.	2772-5774
URL	https://www.sciencedirect.com/science/article/pii/S2772577425000217
Date of Publication	01-03-2025
SDG	Good Health and Well-being

08

Name of Institute	Shree Naranjibhai Lalbhai Patel College of Pharmacy (268)
Title of Article	Eco-friendly and stability-indicating HPTLC method for the estimation of Carvedilol in pharmaceutical dosage forms: A greenness assessment using NEMI scale, AGREE, and White Analytical Chemistry
Name of Authors	Vibhuti A. Rabadiya, Nehal Shah, Ashok H Akabari
Name of Corresponding Author	Vibhuti A. Rabadiya
Name of the Journal	Green Analytical Chemistry
Indexed	SCOPUS
ISSN No.	2772-5774
URL	https://www.sciencedirect.com/science/article/pii/S2772577425000333
Date of Publication	01-03-2025
SDG	Good Health and Well-being

09

Name of Institute	Dr. Dayaram Patel Pharmacy College Bardoli Gujarat (406)
Title of Article	Overcoming Obstacles: The Role of Lipid Nanocarriers in Therapeutic Approaches for Pancreatic Cancer
Name of Authors	Md Sadique Hussain, Bhupendra G. Prajapati, Sonam M. Gandhi, Mayank Sharma, Devesh U. Kapoor, Gehan M. Elossaily, Shiv Garg
Name of Corresponding Author	Devesh U. Kapoor
Name of the Journal	BioNanoScience
Indexed	SCOPUS
ISSN No.	2191-1649
URL	https://link.springer.com/article/10.1007/s12668-025-01873-y
Date of Publication	11-03-2025
SDG	Good Health and Well-being

10

Name of Institute	Shree Naranjibhai Lalbhai Patel College of Pharmacy (268)
Title of Article	Analytical quality by design (AQbD) methodology for concurrent determination of perindopril erbumine and moxonidine hydrochloride using RP-HPLC with an eco-friendly evaluation
Name of Authors	Ashok H. Akabari, Sagar K. Patel, Ketan V. Shah, Arun Patel, Dixitkumar Modi, Ashim Kumar Sen, Vinodkumar D. Ramani, Dhiren P. Shah & Sagarkumar P. Patel
Name of Corresponding Author	Ashok H. Akabari
Name of the Journal	Discover Chemistry
Indexed	Others
ISSN No.	3005-1193
URL	https://link.springer.com/article/10.1007/s44371-024-00067-x
Date of Publication	03-01-2025
SDG	Good Health and Well-being

Name of Institute	Dr. Dayaram Patel Pharmacy College Bardoli Gujarat (406)
Title of Article	QbD- driven development and characterization of Lactoferrin-loaded nanoparticles in in-situ gel for treating postmenopausal osteoporosis
Name of Authors	Priya Patel, Aishwarya Trivedi, Bhupendra G. Prajapati , Devesh U. Kapoor
Name of Corresponding Author	Bhupendra G. Prajapati
Name of the Journal	Next Research
Indexed	Others
ISSN No.	3050-4759
URL	https://www.sciencedirect.com/science/article/pii/S3050475925000132
Date of Publication	21-01-2025
SDG	Good Health and Well-being

Research Papers (Biotechnology-Supervisors)

01

Name of Institute	GTU School of Applied Sciences and Technology (145)
Title of Article	Unveiling the synthesis of triazole derivatives via 1, 3-dipolar cycloaddition 'Click' reaction: Key insights into spectral properties and biomolecular interactions
Name of Authors	Nirbhay K. Savaliya, Aelvish D. Padariya, Milan P. Dhaduk, Ravi A. Dabhi, Riya A. Desai, Vaibhav D. Bhatt, Bhupesh S. Bhatt
Name of Corresponding Author	Bhupesh S. Bhatt
Name of the Journal	Journal of Molecular Structure
Indexed	SCOPUS
ISSN No.	0022-2860
URL	https://www.sciencedirect.com/science/article/pii/S0022286025000791
Date of Publication	09-01-2025
SDG	Good Health and Well-being

02

Name of Institute	GTU School of Applied Sciences and Technology (145)
Title of Article	Evaluating the Effectiveness of a Novel Pongamia pinnata Derived Herbal Mouth-Dissolving Film for Treating Oral Disorders and Evaluating Its Anticancer Properties
Name of Authors	Devang Prajapati, Masuma Hakim, Margi Patel, Mohammad Javed Ansari, Saleh Alfarraj, Sanjay Chauhan, Vaibhav Bhatt, Virendra Kumar Yadav, Dipak Kumar Sahoo, Kashyap Thummar, Ashish Patel
Name of Corresponding Author	Dipak Kumar Sahoo, Kashyap Thummar, Ashish Patel
Name of the Journal	Cell Biochemistry and Function
Indexed	SCOPUS
ISSN No.	1099-0844
URL	https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/abs/10.1002/cbf.70049
Date of Publication	28-01-2025
SDG	Good Health and Well-being, Industry, Innovation and Infrastructure

03

Name of Institute	GTU- School of Applied Sciences & Technology (145)
Title of Article	Isolation and Characterization of Major Cultivable Bacteria from Novel Natural Fertilizer with Comprehensive Nutrient Analysis
Name of Authors	Ashish Warghane Jigisha Thakkar, Gayatary Bhardwaj, Vaibhav Bhatt and B.A. Chopade
Name of Corresponding Author	Ashish Warghane
Name of the Journal	Journal of Pure and Applied Microbiology (JPAM)
Indexed	SCOPUS
ISSN No.	0973-7510
URL	https://microbiologyjournal.org/isolation-and-characterization-of-major-cultivable-bacteria-from-novel-natural-fertilizer-with-comprehensive-nutrient-analysis/
Date of Publication	04-02-2025
SDG	No Poverty, Zero Hunger, Good Health and Well-being, Clean Water and Sanitation, Life on Land

04

Name of Institute	GTU- School of Applied Sciences & Technology (145)
Title of Article	A novel predictive algorithm for integrating asthma attack monitor device with smartphone
Name of Authors	Saif Saad Fakhruddin, Vaibhav Bhatt, Sadik Kamel Gharghan
Name of Corresponding Author	Dr. Vaibhav Bhatt
Name of the Journal	Measurement: Journal of the International Measurement Confederation
Indexed	SCOPUS
ISSN No.	0263-2241
URL	https://www.sciencedirect.com/science/article/abs/pii/S0263224125003082
Date of Publication	07-02-2025
SDG	Good Health and Well-being, Industry, Innovation and Infrastructure

05

Name of Institute	GTU- School of Applied Sciences & Technology (145)
Title of Article	Isolation and Characterization of Major Cultivable Bacteria from Novel Natural Fertilizer with Comprehensive Nutrient Analysis.
Name of Authors	Ashish Warghane, Jigisha Thakkar, Gayatary Bhardwaj, Vaibhav Bhatt, B.A. Chopade
Name of Corresponding Author	Ashish Warghane
Name of the Journal	Journal of Pure & Applied Microbiology
Indexed	SCOPUS
ISSN No.	0973-7510
URL	https://openurl.ebsco.com/EPDB%3Agcd%3A6%3A19118614/detailv2?sid=ebsco%3Aplink%3Ascholar&id=ebsco%3Agcd%3A183594342&crl=c&link_origin=scholar.google.co.in
Date of Publication	01-03-2025
SDG	Good Health and Well-being, Industry, Innovation and Infrastructure, Life on Land

06

Name of Institute	GTU- School of Applied Sciences & Technology (145)
Title of Article	Multi-component sustainable catalytic crafting of novel heterocyclic spiranes as topoisomerase II inhibitors
Name of Authors	Ravi A. Dabhi, Milan P. Dhaduk, Nirbhay K. Savaliya, Aelvish D. Padariya, Aakanksha P. Patil, Riya A. Desai, Vaibhav D. Bhatt, Bhupesh S. Bhatt
Name of Corresponding Author	Bhupesh S. Bhatt
Name of the Journal	Sustainable Chemistry for the Environment
Indexed	SCOPUS
ISSN No.	2949-8392
URL	https://www.sciencedirect.com/science/article/pii/S2949839224001470
Date of Publication	03-01-2025
SDG	Good Health and Well-being, Industry, Innovation and Infrastructure, Life on Land

07

Name of Institute	GTU School of Applied Sciences and Technology (145)
Title of Article	Electrochemical β -Lactamase Immuno-strip Sensor with 3D Hydrogel-Paper Scaffold for Rapid Detection & Post-Antibiotic Therapy Monitoring in Drug-Resistant Bloodstream Infections
Name of Authors	Malvika Shukla, Dhruvesh Maiya, Rimpal Malaviya, Mruga Raval, Dolatsinh Zala, Vaibhav Bhatt, Shubhita Tripathi, Alok Pandya
Name of Corresponding Author	Alok Pandya
Name of the Journal	Analytica Chimica Acta
Indexed	SCOPUS
ISSN No.	0003-2670
URL	https://www.sciencedirect.com/science/article/pii/S0003267025003472
Date of Publication	18-03-2025
SDG	Good Health and Well-being, Industry, Innovation and Infrastructure

08

Name of Institute	GTU School of Applied Sciences and Technology (145)
Title of Article	Intelligent air pollution prediction algorithm-based optimized random forest regression for reducing asthmatic attacks
Name of Authors	Saif Saad Fakhrulddin, Vaibhav Bhatt, Sadik Kamel Gharghan
Name of Corresponding Author	Vaibhav Bhatt
Name of the Journal	Journal of Air Pollution and Health
Indexed	SCOPUS
ISSN No.	2476-3071
URL	https://japh.tums.ac.ir/index.php/japh/article/view/855
Date of Publication	29-03-2025
SDG	Good Health and Well-being, Industry, Innovation and Infrastructure, Life on Land

Name of Institute	GTU School of Applied Sciences and Technology (145)
Title of Article	Comparative metagenomic analysis of rhizospheric soil of <i>Mangifera indica</i> (mango) and <i>Carica papaya</i> (papaya)
Name of Authors	Bhumi Rajguru, Manju Shri, Bhumika Bhatt, Vaibhav D. Bhatt
Name of Corresponding Author	Vaibhav D. Bhatt
Name of the Journal	Discover Plants
Indexed	Others
ISSN No.	3005-1207
URL	https://link.springer.com/article/10.1007/s44372-025-00149-9
Date of Publication	18-03-2025
SDG	Good Health and Well-being, Climate Action, Life on Land

Research Papers (Engineering-Scholars)

01

Enrollment No	189999919044
Title of Article	An experimental study on a curved solar flexible photovoltaic panel with a single-axis tracking system in perspectives of automobile applications
Name of Authors	Hemantchandra Patel, Kalpesh Modi, Rohan Patel & Rita Patel
Name of Corresponding Author	Dr. Kalpesh V. Modi
Name of the Journal	International Journal of Ambient Energy
Indexed	SCOPUS
ISSN No.	2162-8246
URL	https://doi.org/10.1080/01430750.2024.2444353
Date of Publication	03-01-2025
SDG	Affordable and Clean Energy, Industry, Innovation and Infrastructure, Sustainable Cities and Communities, Responsible Consumption and Production, Climate Action

02

Enrollment No	199999916501
Title of Article	Analyzing Spatial and Temporal Variations in Water Quality and Identifying Key Influencing Factors in the Sabarmati River System, Western India
Name of Authors	Jalpa Darji, Dr. Pradeep Lodha
Name of Corresponding Author	Jalpa Darji
Name of the Journal	Water Conservation Science and Engineering
Indexed	SCOPUS
ISSN No.	2366-3340
URL	https://doi.org/10.1007/s41101-024-00335-y
Date of Publication	08-01-2025
SDG	Clean Water and Sanitation

03

Enrollment No	209999915001
Title of Article	Dual Band Metamaterial Absorber for L and S Band Applications
Name of Authors	Jigar M. Patel, Rahul D. Mehta
Name of Corresponding Author	Rahul D. Mehta
Name of the Journal	Journal of Information Systems Engineering and Management (JISEM)
Indexed	SCOPUS
ISSN No.	2468-4376
URL	https://doi.org/10.52783/jisem.v10i11s.1599
Date of Publication	05-11-2024
SDG	Decent Work and Economic Growth

04

Enrollment No	199999918502
Title of Article	Optimizing Blood Glucose Prediction Accuracy in Type-1 Diabetes with a Stacked LSTM Universal Model
Name of Authors	Rakesh Motka, Rakesh Patel, Sandip Panchal
Name of Corresponding Author	Rakesh Motka
Name of the Journal	Journal of Information systems Engineering and Management
Indexed	SCOPUS
ISSN No.	2468-4376
URL	https://jisem-journal.com/index.php/journal/article/view/1824
Date of Publication	19-01-2025
SDG	Good Health and Well-being; Industry , Innovation and Infrastructure

05

Enrollment No	209999912001
Title of Article	Analysis of drought detection by meteorological drought indices in arid, semi arid and dry sub humid region of Gujarat, India
Name of Authors	Akshay Rathod , Dr N. P. Singh
Name of Corresponding Author	Akshay Rathod
Name of the Journal	Staps Journal
Indexed	SCOPUS
ISSN No.	1782-1568
URL	https://stapsjournal.com/volume-11-issue-2-2025/
Date of Publication	14-02-2025
SDG	Zero Hunger, Clean Water and Sanitation, Climate Action

06

Enrollment No	239999913016
Title of Article	An outlier detection framework for Air Quality Index prediction using linear and ensemble models
Name of Authors	Pradeep Kumar Dongre , Viral Patel, Upendra Bhoi, Nilesh N. Maltare
Name of Corresponding Author	Nilesh N. Maltare
Name of the Journal	Decision Analytics Journal
Indexed	SCOPUS
ISSN No.	2772-6622
URL	https://doi.org/10.1016/j.dajour.2025.100546
Date of Publication	01-03-2025
SDG	Sustainable Cities and Communities, Climate Action

07

Enrollment No	199999913506
Title of Article	Harmonic Synergy: Leveraging Deep Convolutional Networks, LSTMs, and RNNs for Multi-Genre Piano Roll Generation with GANs
Name of Authors	Bhaves Ashokkumar Tanawala, Darshankumar C. Dalwadi
Name of Corresponding Author	Dr. Darshankumar C. Dalwadi
Name of the Journal	SN Computer Science
Indexed	SCOPUS
ISSN No.	2662-995X
URL	https://link.springer.com/article/10.1007/s42979-025-03855-z
Date of Publication	18-03-2025
SDG	Decent Work and Economic Growth, Industry, Innovation and Infrastructure

08

Enrollment No	189999913037
Title of Article	Internal Re-keying Based Modified AES
Name of Authors	Amit Rathod, Dr. Kajal Patel
Name of Corresponding Author	Dr. Kajal Patel
Name of the Journal	Indian Journal of Science and Technology
Indexed	WoS
ISSN No.	0974-5645
URL	https://doi.org/10.17485/IJST/v18i1.2012
Date of Publication	16-01-2025
SDG	Peace, Justice and Strong Institutions

09

Enrollment No	199999914513
Title of Article	Evaluating performance-impacting parameters for water-mounted solar PV systems using response surface methodology
Name of Authors	Amandeep Singh Makhija, Vivek Tiwari, Shabbir S. Bohra
Name of Corresponding Author	Shabbir S. Bohra
Name of the Journal	Renewable Energy
Indexed	WoS
ISSN No.	1879-0682
URL	https://www.sciencedirect.com/science/article/abs/pii/S0960148125003969
Date of Publication	28-02-2025
SDG	Zero Hunger, Clean Water and Sanitation, Climate Action

10

Enrollment No	199999902508
Title of Article	Crowd Counting in Still Images for RoboSoldier: A Survey
Name of Authors	Tendai Padenga, Vidhi Khanduja
Name of Corresponding Author	Tendai Padenga
Name of the Journal	Defence Science Journal
Indexed	WoS
ISSN No.	0011-748X
URL	https://publications.drdo.gov.in/ojs/index.php/djlit
Date of Publication	17-03-2025
SDG	Sustainable Cities and Communities, Peace, Justice and Strong Institutions, Partnerships for the Goals

11

Enrollment No	199999914513
Title of Article	In-situ performance investigation of the world's pilot canal top solar PV system in India
Name of Authors	Amandeep Singh Makhija, Shabbir S. Bohra
Name of Corresponding Author	Shabbir S. Bohra
Name of the Journal	Energy for Sustainable Development
Indexed	WoS
ISSN No.	2352-4669
URL	https://www.sciencedirect.com/science/article/pii/S0973082625000663
Date of Publication	28-03-2025
SDG	Affordable and Clean Energy

12

Enrollment No	199999914512
Title of Article	A Review: Methods of Fault Detection, Identification and Location in Conventional and Active AC Power Distribution System
Name of Authors	Komal A. Sonagra, Bhargav Y. Vyas
Name of Corresponding Author	Bhargav Y. Vyas
Name of the Journal	Transactions of the Indian National Academy of Engineering
Indexed	Others
ISSN No.	2662-5415
URL	https://link.springer.com/article/10.1007/s41403-024-00514-2
Date of Publication	18-01-2025
SDG	Industry, Innovation and Infrastructure

Research Papers (Pharmacy-Scholars)

01

Enrollment No	209999901034
Title of Article	Development and Characterization of Novel Solid Self Nanoemulsifying Drug Delivery System of Fimasartan
Name of Authors	Rajnikant Suthar, Ajay Solanki, Rajesh Palva, Prajesh Prajapati, Umang Shah, Krunal Detholia
Name of Corresponding Author	Dr. Ajay B. Solanki
Name of the Journal	Journal of Pharmaceutical Innovation
Indexed	SCOPUS
ISSN No.	1939-8042
URL	https://link.springer.com/article/10.1007/s12247-024-09921-y
Date of Publication	16-01-2025
SDG	Good Health and Well-being, Industry, Innovation and Infrastructure

Research Papers (Management-Scholars)

01

Enrollment No	229999903016
Title of Article	The stimulus of personality traits among Generation Z's social entrepreneurial intentions: the role of gender
Name of Authors	Latika Sharma, Himanshu Bagdi, Hemantkumar P. Bulsara, Ruchita Lodaliya
Name of Corresponding Author	Latika Sharma
Name of the Journal	Society and Business Review
Indexed	SCOPUS
ISSN No.	1746-5680
URL	https://www.emerald.com/insight/content/doi/10.1108/sbr-04-2024-0116/full/html
Date of Publication	04-02-2025
SDG	Gender Equality

02

Enrollment No	229999903010
Title of Article	Digital and Remote Teams: Their Roles in Project Management
Name of Authors	Ms. Dipal Gohil
Name of Corresponding Author	Dr. Vijay Pithadia
Name of the Journal	International Journal of Progressive Research in Engineering Management and Science (IJPREMS)
Indexed	Others
ISSN No.	2583-1062
URL	https://www.ijprems.com/pastvolumeissue.php?p=0&keywor=Digital+and+remote+teams%3A+Their+roles+in+project+manag
Date of Publication	01-01-2025
SDG	Industry, Innovation and Infrastructure

Enrollment No	219999903021
Title of Article	The impact of original content production on subscriber acquisition and retention in OTT platforms
Name of Authors	Nirmal Shruti
Name of Corresponding Author	K. J. Thankachan
Name of the Journal	Journal of Management Research and Analysis
Indexed	Others
ISSN No.	2394-2762
URL	https://delivery.ipinnovative.com/TYWMEIPZJV?id=175318=e09RVAlFVQJbHg8HBgYMUVFVW1cBUIAGAwPQUgNdA11dUINSVIVUAWZUA1BSAA8GU1UfEFxGQxdcXAoUWFgKVQoAVSVSXQdaD0xUClSZCQRXVVJSBw0BUgMEW1MNCFIYUEcVFUYKSRwHB1sMQABKSk0NEwpaWlkVVEYKEFAXBQtYHDU8Yn0jeJM4fTMJDFxPFVc=&fl=UEcVFUYKSRwUFUBLXxVRXQOLFQJAXUAGG1EMCxpTCRFXQAJRh8sfjEjGAREEVFQDwFOB1FAVwpZQUxUAQhXXBdFDglAXQMcvIQESl8WS0YGS1JbBwE=&ext=ZmVIZGJhY2s9MQ==
Date of Publication	05-03-2025
SDG	Industry, Innovation and Infrastructure

Research Papers (Science-Scholars)

01

Enrollment No	219999906010
Title of Article	Chemical Reaction and Hall Current Effects on MHD Casson Fluid Flow Past an Oscillating Plate in Porous Medium
Name of Authors	Ramesh Patoliya, Dr. Vimalkumar Gohil
Name of Corresponding Author	Dr. Vimalkumar Gohil
Name of the Journal	Advances in Nonlinear Variational Inequalities
Indexed	SCOPUS
ISSN No.	1092-910X
URL	https://www.internationalpubls.com/index.php/anvi/article/view/4483/2476
Date of Publication	26-03-2025
SDG	Industry, Innovation and Infrastructure

02

Enrollment No	229999906005
Title of Article	Optimal Pricing for Substitute Products with Deterioration Constraints
Name of Authors	Amarat H. Rathod, Kunal T. Shukla and Dharmesh K. Katariya
Name of Corresponding Author	Amarat H. Rathod
Name of the Journal	Indian Journal of Natural Sciences
Indexed	WoS
ISSN No.	0976-0997
URL	https://tnsroindia.org.in/JOURNAL/issue88/ISSUE%2088-FEB%202025-FULL%20TEXT%20PART-03.pdf
Date of Publication	28-02-2025
SDG	Industry, Innovation and Infrastructure

03

Enrollment No	219999906007
Title of Article	Analysis of Cross Diffusion Effects on MHD Nanofluid Past an Oscillating Plate with Ramped Wall Temperature
Name of Authors	Gopal Nanda, Harshad Patel
Name of Corresponding Author	Harshad Patel
Name of the Journal	Applications and Applied Mathematics: An International Journal (AAM)
Indexed	WoS
ISSN No.	1932-9466
URL	https://digitalcommons.pvamu.edu/aam/vol20/iss3/3/
Date of Publication	28-03-2025
SDG	Industry, Innovation and Infrastructure

04

Enrollment No	219999906001
Title of Article	Unlocking the Strength of the Homotopy Analysis Method under Influence of Auxiliary Function $H(x, t)$: A Comparative Study of Techniques for Solving the Time Fractional Fisher Equation
Name of Authors	Harshil U. Pandya, Dr. V.P. Gohil
Name of Corresponding Author	Dr. V.P. Gohil
Name of the Journal	Journal of Applied Mathematics and Informatics
Indexed	WoS
ISSN No.	2234-8417
URL	https://jami.or.kr/out/04071617101651056.pdf
Date of Publication	29-03-2025
SDG	Industry, Innovation and Infrastructure

Enrollment No	209999906001
Title of Article	Radio number of the cartesian product of a tree and a complete graph
Name of Authors	Payal Vasoya and Devsi Bantva
Name of Corresponding Author	Devs Bantva
Name of the Journal	Congressus Numerantium
Indexed	Others
ISSN No.	0384-9864
URL	https://doi.org/10.61091/cn235-05
Date of Publication	11-02-2025
SDG	Sustainable Cities and Communities

Research Papers (Biotechnology-Scholars)

01

Enrollment No	201459910002
Title of Article	Isolation and identification of soil bacteria: Purification and functional characterization of celc
Name of Authors	Bhumika Bhatt, Kandarp Bhatt, and Vaibhav Bhatt
Name of Corresponding Author	Vaibhav Bhatt
Name of the Journal	International Journal of Bioscience and Biochemistry
Indexed	Others
ISSN No.	2664-6536; 2664-6544
URL	https://www.doi.org/10.33545/26646536.2025.v7.i1b.99
Date of Publication	19-03-2025
SDG	Climate Action

PATENTS

Patents (Engineering)

01

Enrollment No.	V.V.P Engineering College (047)
Types of Patent	Design
Title of Patent	Machine Learning Based Stress Detection Device
Name of Inventors	Dr. Darshana H. Patel, Darshan P. Upaddhyay, Vijay K. Vyas, Prashant V. Chauhan, Aditiba K. Jadeja, Soniya P. Aghera
Name of Applicant	Dr Darshana H. Patel, Darshan P. Upaddhyay, Vijay K. Vyas, Prashant V. Chauhan, Aditiba K. Jadeja, Soniya P. Aghera
Patent No.	443009-001
Status of Patent	Published
Country of Filing	India
Date of Publication	14-03-2025
SDG	Good Health and Well-being

Patents (Pharmacy)

01

Enrollment No.	A. R. College of Pharmacy & G. H. Patel Institute of Pharmacy (201)
Types of Patent	Utility
Title of Patent	Formulation for phosphodiesterase inhibitor
Name of Inventors	Dr. Naitikkumar Devshankar Trivedi, Mr. Hardikkumar Kanjibhai Patel, Dr. Vaishali Thakkar, Dr. Alpesh Patel, Dr. Upama Trivedi, Dr. Devesh Kapoor
Name of Applicant	Dr. Naitikkumar Devshankar Trivedi, Mr. Hardikkumar Kanjibhai Patel
Patent No.	202521016723
Status of Patent	Filed
Country of Filing	India
Date of Publication	14-03-2025
SDG	Industry, Innovation and Infrastructure

BOOKS

01

Name of Institute	Government engineering college Dahod (018)
Title of Book/Chapter	Desiccant rotary regenerators for sustainable cooling in buildings
Name of Authors	Dr. D. B. Jani
ISBN No.	978-1-003-53478-5
URL	https://books.google.co.in/books?hl=en&lr=&id=8RFSEQAAQBAJ&oi=fnd&pg=PA123&ots=R_SgZZyT-f&sig=jK6JQVLfmoacyEPj7tPIWf5H1xU&redir_esc=y#v=onepage&q&f=false
Date of Publication	01-01-2025
SDG	Affordable and Clean Energy

02

Name of Institute	Pacific School of Engineering (112)
Title of Book/Chapter	Plant Utilities
Name of Authors	Himanshu Patel
ISBN No.	—
URL	https://www.researchgate.net/publication/388175088_Plant_Uilities
Date of Publication	14-01-2025
SDG	Industry, Innovation and Infrastructure

03

Name of Institute	GTU-School of Applied Sciences and Technology (145)
Title of Book/Chapter	Basic Skills in Microbiology Laboratory II
Name of Authors	Devaki Sharad Salve (Author), Dr. Ashish Warghane (Author), Rutika Uttam Ramgude (Author), Pratiksha Chintamani Kusal (Author), Shruti Pavan Jagtap (Author), Dr. Kasjama Murakar (Author), Dr. Sonali Zankar Patil (Author), Dr. Sudhakar Laxmanrao Gutte (Editor), KrushnaKant Prajapati (Editor), Anil Jogdand Janardhan Kotule Dr. Sunil Pawar (Editor)
ISBN No.	978-81-981751-7-5
URL	https://www.amazon.com/Basic-Skills-Microbiology-Laboratory-Universities/dp/B0DTYRMLXK
Date of Publication	23-01-2025
SDG	Quality Education

04

Name of Institute	GTU-School of Applied Sciences and Technology (145)
Title of Book/Chapter	Dealing with Microorganisms: OEP-151-MB Semester II, Open Elective As per syllabus by NEP 2020 and Applicable to all Indian Universities
Name of Authors	Dr. Shilpa Mankar (Author), Dr. Rashmi Saini (Author), Neha Sanjay Devkate (Author), Pallavi Gulabrao Deshmukh (Author), Harsh Chetanbhai Patel (Author), Dr. Sunil Pawar (Author), Soosan Amiri (Editor) Dr. Sudhakar Laxmanrao Gutte Krushna Kant Prajapati Dr. Anil Jogdand (Editor), Dr. Ashish Warghane (Editor)
ISBN No.	978-81-981751-3-7
URL	https://www.amazon.com/dp/B0DVH2TNY3#detailBullets_feature_div
Date of Publication	23-01-2025
SDG	Quality Education

05

Name of Institute	GTU-School of Applied Sciences and Technology (145)
Title of Book/Chapter	Basics of Microbiology
Name of Authors	Harsha Prasanna Gatne (Author), Dr. Bhakti Anoop Kshirsagar (Author), Jigisha Thakkar (Author), Aditi Phule (Author), Shubhangi Bhimrao Kamble (Author), Dhanashri Prabhakar Pachhade (Author), Nikita Kashinath Nannaware (Author), Dr. Sudhakar Laxmanrao Gutte Snehal Mandar Deshpande Dinesh Gaikwad (Editor), Krushna Kant Prajapati Dr. Kavita Chahal Dr. Ashish Warghane (Editor), Dr. Anil Jogdand Amruta Ankush Shinde Janardhan Kotule Dr. Sunil Pawar (Editor)
ISBN No.	978-81-981751-0-6
URL	https://www.amazon.com/dp/B0DV9T9ZHD
Date of Publication	28-01-2025
SDG	Quality Education

06

Name of Institute	Dr. Dayaram Patel Pharmacy College, Bardoli (406)
Title of Book/Chapter	Role of microbiome gut-brain axis in brain disorders
Name of Authors	Smriti Parashar, Devesh U.Kapoor, Rupesh K.Gautam, Ajit KumarThakur
ISBN No.	978-0-443-21680-0
URL	https://www.sciencedirect.com/science/article/pii/B9780443216800000134
Date of Publication	31-01-2025
SDG	Good Health and Well-being

07

Name of Institute	VVP Engineering College, Rajkot (047)
Title of Book/Chapter	Deep Learning and AI - The Essential Guide
Name of Authors	Dr. Dipesh Kamdar, Dr. Paresh Dholakia, Dr. Jignesh Joshi, Dr. Dhaval Bhojani
ISBN No.	978-93-6674-294-6
URL	https://sipinternationalpublishers.com/product-detail.php?PID=MzUwOQ==
Date of Publication	12-02-2025
SDG	Industry, Innovation and Infrastructure

08

Name of Institute	Pacific School of Engineering (112)
Title of Book/Chapter	Chat GPT and Machine Learning - A Beginner's Guide
Name of Authors	Dr. Darshana Patel, Soniya Aghera , Aditiba Jaedja, Hemangee Mirani
ISBN No.	978-93-6674-440-7
URL	https://sipinternationalpublishers.com/product-detail.php?PID=MzUyMw==
Date of Publication	14-02-2025
SDG	Quality Education

09

Name of Institute	Government Engineering College, Bharuch (014)
Title of Book/Chapter	Electric Vehicle Charging Infrastructures and its Challenges
Name of Authors	Ashutosh K. Giri, Madhusudan Singh
ISBN No.	978-981-96-0360-2
URL	https://link.springer.com/book/10.1007/978-981-96-0361-9
Date of Publication	20-02-2025
SDG	Affordable and Clean Energy

10

Name of Institute	Lukhdhirji Engineering College (031)
Title of Book/Chapter	Zeolite Chemistry & Engineering: Catalysts and Adsorbents Guide.
Name of Authors	Dr. Ashish Baldania
ISBN No.	978-93-6674-294-6
URL	https://researchbeaconpublication.com/research-beacon-books/
Date of Publication	20-02-2025
SDG	Good Health and Well-being, Affordable and Clean Energy, Industry, Innovation and Infrastructure, Responsible Consumption and Production, Climate Action

11

Name of Institute	Government Engineering College, Bharuch (014)
Title of Book/Chapter	Control Strategies for Non-minimum Phase Systems
Name of Authors	Manish Yadav, Ashutosh K. Giri and Stepan Ozana
ISBN No.	978-981-96-2351-8
URL	https://link.springer.com/book/10.1007/978-981-96-2351-8
Date of Publication	26-03-2025
SDG	Affordable and Clean Energy

AWARDED PHD THESIS ABSTRACTS

Ph.D. Thesis Abstract (Engineering)

01

Name	Solanki Amitkumar Bharatkumar
Enrollment No	189999919067
Title of Thesis	Implementation of Quality Tools and Optimization for Quality Improvement for Crankshaft Manufacturing Industries
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(7)_639849.pdf

02

Name	Gangadia Hardik Dineshkumar
Enrollment No	189999919015
Title of Thesis	Analytical & Experimental Investigations on Effect of Unconventional Texture Shapes on Tribological Behaviour of Sliding Surfaces
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(18)_173472.pdf

03

Name	Yadav Navneetsinh Shivkumar
Enrollment No	169999919022
Title of Thesis	Effect of Abrasive Particles with Polymeric Additives on Water Jet Lagging
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(15)_331904.pdf

04

Name	Nirav Shankarlal Joshi
Enrollment No	129990919011
Title of Thesis	Investigations on Exhaust Gas Recirculation (EGR) for C I Engine fueled by Biodiesel-Diesel blends
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(6)_303333.pdf

05

Name	Patel Shirish Kanubhai
Enrollment No	179999919040
Title of Thesis	Experimental and Theoretical Performance Analysis of Square Pyramid Solar Still
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(37)_678379.pdf

06

Name	Nanjibhai Nilabhai Chaudhary
Enrollment No	179999919005
Title of Thesis	Experimental investigations on free-form magnetic abrasive finishing of bearing races
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(25)_575934.pdf

07

Name	Jani Keyurbhai Arvindhbai
Enrollment No	169999913005
Title of Thesis	Smartness Mechanism in Design of Agriculture Framework Using IoT Devices (SMAIoT)
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(6)_303333.pdf

08

Name	Patel Hardik Kanubhai
Enrollment No	199999913573
Title of Thesis	Efficient Image Captioning Method Using Deep Learning
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(16)_477604.pdf

09

Name	Khem Dhawal Punamchand
Enrollment No	179999913016
Title of Thesis	Enhancing Text Translation with Context-Driven Text Simplification
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(12)_510929.pdf

10

Name	Tadhani Jaydeep Ramjibhai
Enrollment No	199999913560
Title of Thesis	Cyber Attack Detection Scheme Using Deep Learning Approach
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(10)_750226.pdf

11

Name	Swati J. Patel
Enrollment No	189999913046
Title of Thesis	Enhanced Hybrid Watermarking Approach for Digital Multimedia Content
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(19)_402126.pdf

12

Name	Vishal Amrutbhai Polara
Enrollment No	199999913564
Title of Thesis	Cost Optimization Approach for MANET using PSO
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(9)_287349.pdf

13

Name	Nikhil Kumar Singh
Enrollment No	189999913024
Title of Thesis	Person Re-Identification Leveraging Deep Learning Methodologies
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(27)_386787.pdf

14

Name	Amita V. Shah
Enrollment No	179999913002
Title of Thesis	Performance Enhancement by Applying Lightweight Cryptography in IoT Devices
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(35)_602130.pdf

15

Name	Contractor Endrick Divyakant
Enrollment No	199999911509
Title of Thesis	Gasification of Solid Waste for Syn-Gas Production
Faculty/Discipline	Chemical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(21)_777802.pdf

16

Name	Kinjal Ashokkumar Bhavsar
Enrollment No	179999915006
Title of Thesis	Numerical Simulations and Performance Analysis of Perovskite Solar Cell for Different HTL and ETL Structures
Faculty/Discipline	Electronics and Communication Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract_121217.pdf

17

Name	Thakkar Mehulkumar Gajendrakumar
Enrollment No	169999915002
Title of Thesis	Design and Investigations on Microwave Reconfigurable Filters
Faculty/Discipline	Electronics and Communication Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(17)_949953.pdf

18

Name	Tejaskumar Bhikhabhai Sheth
Enrollment No	1999999155122
Title of Thesis	Blood Stain Classification with Hyperspectral Imaging using Deep Neural Networks in Forensic Science
Faculty/Discipline	Electronics and Communication Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(5)_188571.pdf

19

Name	Patel Dhaval Unkabhai
Enrollment No	179999915011
Title of Thesis	Deep Learning Based Indian Sign Language Recognition
Faculty/Discipline	Electronics and Communication Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract_364924.pdf

20

Name	Gojiya Mayur Vajashibhai
Enrollment No	169999914004
Title of Thesis	Enhancing the Sweep Frequency Response Analysis Test Procedure for Better Deformation Diagnostics of Power Transformer Winding
Faculty/Discipline	Electrical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(14)_376092.pdf

21

Name	Tejas Mafatbhai Vala
Enrollment No	189999914019
Title of Thesis	Optimum Coordination of Relays in Dg Connected Networks Using Novel Optimization Algorithm
Faculty/Discipline	Electrical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(11)_254994.pdf

22

Name	Vihang Mukulchandra Dholakiya
Enrollment No	189999914007
Title of Thesis	Investigation on Frequency Regulation in Modern Power Grid
Faculty/Discipline	Electrical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(36)_258018.pdf

23

Name	Utkarsh P. Nigam
Enrollment No	199999912512
Title of Thesis	Rainfall-Runoff Modeling and Optimization for Water Resources and Watershed Management
Faculty/Discipline	Civil Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(30)_790809.pdf

24

Name	Oza Dharmesh Kishorchandra
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Title of Thesis	Development of Critical Contract Clauses Guidelines based on Analytical approach for National Highway projects in India
Faculty/Discipline	Civil Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(34)_575557.pdf

25

Name	Reema Rajankumar Parekh
Enrollment No	179999917008
Title of Thesis	Machine Vision Based Biomedical System Controlled Using Artificial Intelligence.
Faculty/Discipline	Instrumentation and Control Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(38)_222294.pdf

26

Name	Patel Mamta Vishnubhai
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Title of Thesis	Decision Support System to Diagnose Lung Disease and Covid-19
Faculty/Discipline	Instrumentation and Control Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(28)_771509.pdf

27

Name	Falgun Vitthalbhai Suthar
Enrollment No	199999921505
Title of Thesis	Study on Wear and Corrosion Properties of Nickel Base Hardfacing on Stainless Steel
Faculty/Discipline	Metallurgy Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(31)_815868.pdf

Ph.D. Thesis Abstract (Management)

01

Name	Riddhi Girishkumar Khara
Enrollment No	199999903512
Title of Thesis	Measuring Impact of Financial Self-Efficacy of Investor on Financial Behavior
Faculty/Discipline	Management
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(13)_411434.pdf

02

Name	Vyas Karishma Rajendrakumar
Enrollment No	189999903030
Title of Thesis	An Empirical Study on Emotional Intelligence of Employees in Educational Institutes for Selected Cities in Gujarat
Faculty/Discipline	Management
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(26)_385702.pdf

03

Name	Shah Nemik Chandrakant
Enrollment No	199999903527
Title of Thesis	Multi-Dimension Analysis of Selected Private Sector Banks: A Study of Indian Banking Industry
Faculty/Discipline	Management
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(33)_232940.pdf

Ph.D. Thesis Abstract (Pharmacy)

01

Name	Kagarana Chhayaben Shashikant
Enrollment No	199999901512
Title of Thesis	Stability Indicating Analytical Method Development, Validation and Estimation of Some Antidiabetic Drugs in Marketed Formulations.
Faculty/Discipline	Pharmacy
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(24)_627331.pdf

"We need a spirit of victory, a spirit that will carry us to our rightful place under the sun, a spirit which can recognize that we, as inheritors of a proud civilization, are entitled to our rightful place on this planet. If that indomitable spirit were to arise, nothing can hold us from achieving our rightful destiny."

C. V. Raman"



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