



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

Bulletin - Research & Academic Publications

July-September, 2025

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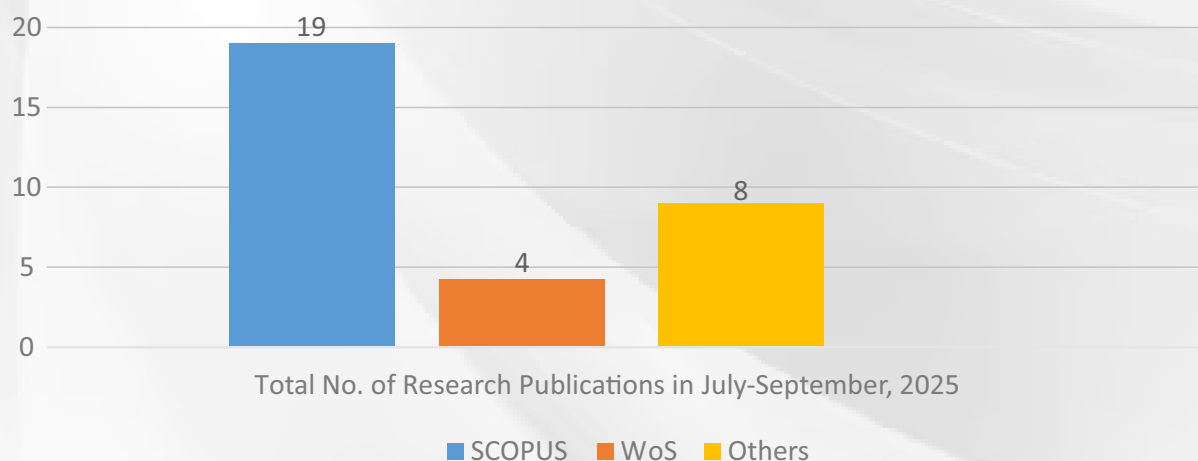
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SUMMARY (July-September, 2025)

Sr. No.	Title	No.	
01	Research Papers	SCOPUS	19
		WoS	4
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02	Patents	Utility	4
		Design	4
03	Books	7	
04	Awarded Ph.D. Thesis Abstract	25	

Total No. of Research Publications in July-September 2025



MESSAGE FROM HON'BLE VICE CHANCELLOR



Dear Faculty Members and Researchers,

We are releasing the ninth successive issue of the R&D Bulletin, showcasing your achievements and commitment to advance knowledge. Your consistent efforts continue to elevate our standing with respect to academic and research excellence in the region.

At GTU, we continue to nurture a dynamic and steadily growing research culture - by collaboration, innovation and through encouraging multidisciplinary research work. Your contributions across different domains of engineering, technology, pharmacy, management, applied sciences and other emerging disciplines is

very crucial. Your contributions in the form of projects and publications are important to nurture a sustainable, inclusive and progressive future.

Through this bulletin, we try to share your accomplishments with others to flourish collectively and also to collaborate.

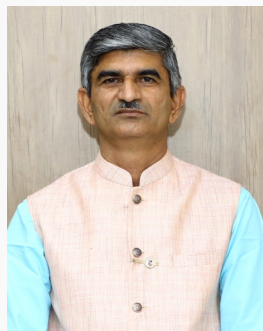
I congratulate all those whose work is featured in this bulletin and encourage others to keep submitting their achievements to GTU- R&D Cell, as we work together, to strengthen and enrich our research ecosystem in the state.

Best Wishes,

(Dr. R. K. Gajjar)
Vice Chancellor,
Gujarat Technological University,
Ahmedabad



MESSAGE FROM REGISTRAR



Dear Faculty Members, Students and Researchers,

Namaskar!!

You are aware that exploration and discovery are an integral part of research; and universities act as important pillar in achieving these through advancing knowledge and innovation.

By publishing your achievements in this quarterly bulletin, we showcase your attainments that are intended towards providing answers through rigorous enquiry. Your contributions reflected in this academic and research bulletin contribute towards our sustainable progress.

Your accomplishments in the form of research projects, publications, patents and other achievements reflect your dedication to achieve academic excellence. We encourage all faculty members to keep themselves engaged in collaborative research.

We would also like you to keep sharing your achievements regularly with the R&D Cell for improved visibility. We deeply appreciate your contributions that contribute to strengthen our research ecosystem. Let us work together to create positive transformation through our research endeavours.

My congratulations to all those whose work is reflected in this bulletin.

Best Wishes,

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

MESSAGE FROM DIRECTOR, RDC



The R & D Cell of the University is presenting the third 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. July and September, 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 these 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 PAPERS

Research Papers (Engineering-Supervisors)

01

Name of Institute	Government Polytechnic, Ahmedabad (617)
Title of Article	User Responsive Automatic Method for Real Time Depression Detection Using Deep Neural Network
Name of Authors	Jiger P. Acharya, Dr. Milind S. Shah
Name of Corresponding Author	Dr. Milind S. Shah
Name of the Journal	Journal of Neonatal Surgery
Indexed	SCOPUS
ISSN No.	2226-0439
URL	https://www.jneonatsurg.com/index.php/jns/article/view/8117/7096
Date of Publication	08-07-2025
SDG	Good Health and Well-being

02

Name of Institute	GTU- School of Engineering and Technology (137)
Title of Article	Seismic vulnerability and fragility assessment of elevated water tanks with diverse staging frame patterns
Name of Authors	Dhaval Bhalani, Kaushik Gondaliya, Jignesh Amin
Name of Corresponding Author	Jignesh Amin
Name of the Journal	Innovative Infrastructure Solutions
Indexed	WoS
ISSN No.	2364-4184
URL	https://link.springer.com/article/10.1007/s41062-025-02140-5
Date of Publication	08-07-2025
SDG	Good Health and Well-being

Name of Institute	GTU- School of Engineering and Technology (137)
Title of Article	Enhancing Browser Security to Mitigate Web-Borne Threats to Server-Side Injection Attacks
Name of Authors	Seema B. Joshi, Manoj Kumar K, Prilantee R. Patel, Gaurav Prakash
Name of Corresponding Author	Dr. Seema B. Joshi
Name of the Journal	Indian Journal of Natural Sciences
Indexed	WoS
ISSN No.	0976 - 0997
URL	https://tnsroindia.org.in/JOURNAL/issues91/IJONS%20-%20ISSUE%2091%20-%20AUG%202025%20-%20FULL%20TEXT%20PAGE%20-%20PART%2002.pdf
Date of Publication	31-08-2025
SDG	Quality Education, Industry, Innovation and Infrastructure, Peace, Justice and Strong Institutions

Research Papers (Pharmacy-Supervisors)

01

Name of Institute	Dr. Dayaram Patel Pharmacy College, Bardoli (406)
Title of Article	Chitosan polyplexes for targeted gene delivery: From mechanisms to clinical applications
Name of Authors	Radhika Joshi, Tripti Paliwal, Swapnil Sharma, Devesh U. Kapoor, Bhupendra G. Prajapati
Name of Corresponding Author	Devesh U. Kapoor
Name of the Journal	Carbohydrate polymers
Indexed	SCOPUS
ISSN No.	0144-8617
URL	https://www.sciencedirect.com/science/article/pii/S0144861725008653
Date of Publication	21-07-2025
SDG	Good Health and Well-being

02

Name of Institute	Dr. Dayaram Patel Pharmacy College, Bardoli (406)
Title of Article	Functionalized Curcumin - Loaded Mesoporous Nanoparticulate Drug Delivery System for Oral Cancer: Formulation Design, Optimization, and In Vitro & In Vivo Evaluation
Name of Authors	Priya Patel, Anand Gondhiya, Nasir Vadia, Devesh U. Kapoor & Bhupendra G. Prajapati
Name of Corresponding Author	Bhupendra G. Prajapati
Name of the Journal	Biomedical materials and devices
Indexed	SCOPUS
ISSN No.	2731-4812
URL	https://link.springer.com/article/10.1007/s44174-025-00457-4
Date of Publication	24-07-2025
SDG	Good Health and Well-being

03

Name of Institute	Dr. Dayaram Patel Pharmacy College, Bardoli (406)
Title of Article	Development of a microemulsion-based lyotropic liquid crystal system for enhanced topical delivery of apremilast in psoriasis
Name of Authors	Sonam M. Gandhi, Purva S. Patil, Naitikkumar D. Trivedi, Devesh U. Kapoor & Omar Awad Alsaidan
Name of Corresponding Author	Devesh U. Kapoor
Name of the Journal	Colloid and polymer science
Indexed	SCOPUS
ISSN No.	0303-402X
URL	https://link.springer.com/article/10.1007/s00396-025-05486-5
Date of Publication	05-08-2025
SDG	Good Health and Well-being

04

Name of Institute	APMC College of Pharmaceutical Education and Research (207)
Title of Article	Development and Validation of RP-HPLC Method for Simultaneous Estimation of Dapagliflozin and Telmisartan in Synthetic Mixture
Name of Authors	Sapna Rathod, Nidhi Panchal, Nisarg Patel
Name of Corresponding Author	Sapna Rathod
Name of the Journal	Journal of Chemical Health Risks
Indexed	SCOPUS
ISSN No.	2251-6727
URL	https://www.jchr.org/index.php/JCHR/article/view/9836/5457
Date of Publication	02-09-2025
SDG	Good Health and Well-being

05

Name of Institute	APMC College of Pharmaceutical Education and Research (207)
Title of Article	Evaluation of Greenness assessment of Chemometrics assisted UV Spectrophotometric Method for Simultaneous Estimation of Remogliflozin Etaborate and Teneligliptin Hydrobromide Hydrate in Pharmaceuticals
Name of Authors	Sapna Rathod; Nisarg Patel; Bhupendra Prajapati
Name of Corresponding Author	Sapna Rathod
Name of the Journal	Research Journal of Pharmacy and Technology
Indexed	SCOPUS
ISSN No.	0974-3618
URL	https://www.rjptonline.org/HTMLPaper.aspx?Journal=Research%20Journal%20of%20Pharmacy%20and%20Technology;PID=2025-18-9-46
Date of Publication	05-09-2025
SDG	Affordable and Clean Energy

06

Name of Institute	Dr. Dayaram Patel Pharmacy College, Bardoli (406)
Title of Article	Strategic Formulation and Optimization of a Febuxostat Nanoparticles Infused Topical Gel Using Quality-by-Design Principles for Enhanced Therapeutic Efficacy in Gout Management
Name of Authors	Yash D. Dudhwala, Devesh U Kapoor, Riya K. Mehta, Dhiren P. Shah, Vinod D. Ramani, Ronak R. Dedania, Manish B. Goyani, Ashok H. Akabari
Name of Corresponding Author	Yash D. Dudhwala and Devesh U Kapoor
Name of the Journal	Chemistry Select, Wiley
Indexed	SCOPUS
ISSN No.	2365-6549
URL	https://chemistry-europe.onlinelibrary.wiley.com/doi/10.1002/slct.202500972
Date of Publication	06-09-2025
SDG	Good Health and Well-being

07

Name of Institute	APMC College of Pharmaceutical Education and Research (207)
Title of Article	Development and Validation of RP-HPLC for Simultaneous Quantitation of Linagliptin, Dapagliflozin Propanediol Monohydrate and Metformin Hydrochloride: Greenness Evaluation by Agree and Gapi Tools
Name of Authors	Sapna M. Rathod, Sayema Pothigara, Nisarg C. Patel
Name of Corresponding Author	Sapna M. Rathod
Name of the Journal	Indian Drugs
Indexed	SCOPUS
ISSN No.	0019-462X
URL	https://www.indiandrugsonline.org/issuesarticle-details?id=MTcxNg==
Date of Publication	09-09-2025
SDG	Affordable and Clean Energy

08

Name of Institute	Dr. Dayaram Patel Pharmacy College, Bardoli (406)
Title of Article	Design and Evaluation of Nanoemulsified Famotidine for Enhanced Permeability and Antiulcer Potential
Name of Authors	Atit Pandey, Sonam M. Gandhi, Naitikkumar D. Trivedi, Gajendra S. Rathore, Devesh U. Kapoor
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/s12668-025-02146-4
Date of Publication	27-09-2025
SDG	Good Health and Well-being

Research Papers (Management-Supervisors)

01

Name of Institute	GTU- School of Management Studies (839)
Title of Article	Measuring the Impacts of Organizational Culture Determinants on Organizational Citizenship Behavior in IT sector
Name of Authors	Neha Singh, Anil Pawar, Radhika G. Shah, Twinkal Thakkar, Aditya Jani, Hiral Vora
Name of Corresponding Author	Ms. Hiral Vora
Name of the Journal	International Journal of Indian Culture and Business Management
Indexed	WoS
ISSN No.	1753-0806; 1753-0814
URL	https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijicbm
Date of Publication	11-07-2025
SDG	Good Health and Well-being

02

Name of Institute	SRK Institute of Management, Anjar (781)
Title of Article	State-of-the-Art Supply Chain Management (SCM) in Virtual World
Name of Authors	Ms. Priyanka Mehta, Dr. Vijay Pithadia
Name of Corresponding Author	Ms. Priyanka Mehta
Name of the Journal	International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS)
Indexed	Others
ISSN No.	2278-2540
URL	https://www.ijltemas.in/submission/index.php/online/article/view/2574/2649
Date of Publication	04-07-2025
SDG	Quality Education

03

Name of Institute	The Mandvi Education Society Institute of Business Management & Computer Studies (812)
Title of Article	A Study on Performance Evaluation of Selected Mutual Fund Schemes in India
Name of Authors	Shefali Chaudhari, Dr. Mahammadrafique Meman
Name of Corresponding Author	Shefali Chaudhari
Name of the Journal	International Journal for Multidisciplinary Research (IJFMR)
Indexed	Others
ISSN No.	2582-2160
URL	https://www.ijfmr.com/papers/2025/4/51721.pdf
Date of Publication	23-07-2025
SDG	Good Health and Well-being;Decent Work and Economic Growth

04

Name of Institute	GTU- School of Management Studies (839)
Title of Article	Performance Appraisal as a Driver of Employee Motivation and Performance: An Empirical Investigation
Name of Authors	Dr. Tusharkumar Panchal, Dr. Neela Multani, Dr. Radhika Shah, Dr. Shailendra Pawaskar
Name of Corresponding Author	Dr. Tushar Panchal
Name of the Journal	Journal of Informatics Education and Research
Indexed	Others
ISSN No.	1526-4726
URL	https://jier.org/index.php/journal/article/view/3494
Date of Publication	01-08-2025
SDG	Decent Work and Economic Growth

05

Name of Institute	SRK Institute of Management, Anjar (781)
Title of Article	Elevation of Brand in Rural Marketplace of Bharat
Name of Authors	Ms. Dipal Gohil Dr. Vijay Pithadia
Name of Corresponding Author	Ms. Dipal Gohil
Name of the Journal	International Journal of Research and Analysis in Commerce and Management
Indexed	Others
ISSN No.	2583-6285
URL	https://www.iarj.in/index.php/ijracm/article/view/446
Date of Publication	01-08-2025
SDG	Decent Work and Economic Growth

06

Name of Institute	SRK Institute of Management, Anjar (781)
Title of Article	Gestalt of Mutual Fund in Bharat
Name of Authors	Ms. Dipal Gohil Dr. Vijay Pithadia
Name of Corresponding Author	Ms. Dipal Gohil
Name of the Journal	International Journal of Innovative Research in Technology
Indexed	Others
ISSN No.	2349-6002
URL	https://ijirt.org/publishedpaper/IJIRT183796_PAPER.pdf
Date of Publication	02-08-2025
SDG	Quality Education

07

Name of Institute	SRK Institute of Management, Anjar (781)
Title of Article	IT & its imprint on Hospital Management Information System
Name of Authors	Dr. Vijay H. Pithadia , Satyam Kumar Dubey
Name of Corresponding Author	Dr. Vijay H. Pithadia
Name of the Journal	International Journal of Innovative Research in Technology
Indexed	Others
ISSN No.	2349-6002
URL	https://ijirt.org/publishedpaper/IJIRT183924_PAPER.pdf
Date of Publication	13-08-2025
SDG	Quality Education

08

Name of Institute	The Mandvi Education Society Institute of Business Management & Computer Studies (812)
Title of Article	Work Life Balance and Job Satisfaction among the Working Women in Tapi District
Name of Authors	Ms. Vishwaben Ramanbhai Gamit, Mr. Dr. Mahammadrafique Meman
Name of Corresponding Author	Ms. Vishwaben Ramanbhai Gamit
Name of the Journal	International Journal for Multidisciplinary Research
Indexed	Others
ISSN No.	2582-2160
URL	https://www.ijfmr.com/research-paper.php?id=54677
Date of Publication	30-08-2025
SDG	Good Health and Well-being

Research Papers (Engineering-Scholars)

01

Enrollment No	219999913013
Title of Article	Computational Modeling and Optimization of Deep Learning for Multi-Modal Glaucoma Diagnosis
Name of Authors	Vaibhav C. Gandhi, Priyesh Gandhi, John Omomoluwa Ogundiran, Maurice Samuntu Sakaji Tshibola, Jean-Paul Kapuya Bulaba Nyembwe
Name of Corresponding Author	Vaibhav C. Gandhi
Name of the Journal	MDPI - AppliedMath
Indexed	SCOPUS
ISSN No.	2673-9909
URL	https://doi.org/10.3390/appliedmath5030082
Date of Publication	07-04-2025
SDG	Industry, Innovation and Infrastructure

02

Enrollment No	209999915011
Title of Article	Hybrid Machine Learning Model for Cache Performance Prediction and Design Space Exploration
Name of Authors	Hetal V. Dave, Dr. Nirali A. Kotak, Dr. Jay B. Teraiya
Name of Corresponding Author	Hetal V. Dave
Name of the Journal	Revista de Informatica Teorica e Aplicada - RITA
Indexed	SCOPUS
ISSN No.	0103-4308
URL	https://seer.ufrgs.br/index.php/rita/article/view/146689
Date of Publication	15-08-2025
SDG	Industry, Innovation and Infrastructure

03

Enrollment No	229999915007
Title of Article	Design and Analysis of Complementary Cascode Current Mirror Based Physically Unclonable Function Using 65nm Predictive Technology Model
Name of Authors	Shreeji H. Shah, Rajesh A. Thakker
Name of Corresponding Author	Rajesh A. Thakker
Name of the Journal	2025 IEEE 9 th International Test Conference India (ITC India)
Indexed	SCOPUS
ISSN No.	2833-8391
URL	https://ieeexplore.ieee.org/document/11141590
Date of Publication	02-09-2025
SDG	Industry, Innovation and Infrastructure, Sustainable Cities and Communities

04

Enrollment No	209999913006
Title of Article	Harnessing Machine Learning and Deep Learning for Non-Communicable Disease Diagnosis: an In-Depth analysis
Name of Authors	Dharmishtha Chaudhari , Pariza Kamboj
Name of Corresponding Author	Dharmishtha Chaudhari
Name of the Journal	Archives of Computational Methods in Engineering
Indexed	SCOPUS
ISSN No.	1886-1784
URL	https://rdcu.be/eD1AJ
Date of Publication	03-09-2025
SDG	Good Health and Well-being

05

Enrollment No	189999913007
Title of Article	A Novel Energy-Efficient Approach to Detect and Mitigate RPL Routing Attacks in IoT Network
Name of Authors	Deepak Upadhyay and Dr. Hiteishi Diwanji
Name of Corresponding Author	Dr. Hiteishi Diwanji
Name of the Journal	Reliability: Theory & Applications
Indexed	SCOPUS
ISSN No.	1932-2321
URL	https://www.gnedenko.net/Journal/2025/032025/RTA_3_2025-82.pdf
Date of Publication	24-09-2025
SDG	Industry, Innovation and Infrastructure

06

Enrollment No	199999919518
Title of Article	Preliminary Study on Reduced Chemical Mechanisms for Hydrogen Air Combustion
Name of Authors	Mr. Jayeshkumar Parekh, Dr. Vijay Dhiman
Name of Corresponding Author	Dr. Vijay Dhiman
Name of the Journal	International Journal for Scientific Research & Development (IJSRD)
Indexed	Others
ISSN No.	2321-0613
URL	https://www.ijsrd.com/Article.php?manuscript=IJSRDV13I60002
Date of Publication	01-09-2025
SDG	Affordable and Clean Energy

Research Papers (Pharmacy-Scholars)

01

Enrollment No	229999901047
Title of Article	A 1-Month Exploratory Combination Safety and Toxicity Study of Co-Administration of Sitagliptin and Telmisartan in Male Wistar Han Rats
Name of Authors	Chitrang R. Shah, Sandip B. Patel, Vishal J. Patel, Hardikkumar H. Savsani, Amit A. Joharapurkar, Urvit P. Patel, Jitendra H. Patel, Ramchandra K. Ranvir, Rajesh Sundar, Mukul R. Jain
Name of Corresponding Author	Sandip B. Patel
Name of the Journal	International Journal of Toxicology
Indexed	WoS
ISSN No.	1091-5818
URL	https://journals.sagepub.com/doi/abs/10.1177/10915818251374566
Date of Publication	30-08-2025
SDG	Good Health and Well-being

Research Papers (Biotechnology-Scholars)

01

Enrollment No	221459910003
Title of Article	Insights into Phylum Asgardarchaeota: Analysis of Two Novel MAGs Within Class Njordarchaeia
Name of Authors	Parthkumar Prajapati, Bupesh Giridharan, Chandrashekar Mootapally, Neelam Nathani
Name of Corresponding Author	Neelam Nathani
Name of the Journal	Indian Journal of Microbiology
Indexed	SCOPUS
ISSN No.	0973-7715
URL	https://link.springer.com/article/10.1007/s12088-025-01524-6
Date of Publication	23-09-2025
SDG	Life below Water

Research Papers (Science-Scholars)

01

Enrollment No	219999906009
Title of Article	Homotopy Analysis Method for One-dimensional Burger's Equation in Longitudinal Dispersion Phenomena via Porous Media
Name of Authors	Anuj Raval, Mitesh S. Joshi
Name of Corresponding Author	Anuj Raval
Name of the Journal	International Journal of Applied and Computational Mathematics
Indexed	SCOPUS
ISSN No.	2199-5796
URL	https://doi.org/10.1007/s40819-025-01970-2
Date of Publication	21-07-2025
SDG	Clean Water and Sanitation, Industry, Innovation and Infrastructure, Climate Action

02

Enrollment No	229999905001
Title of Article	Advanced MOF-based materials for adsorptive and photocatalytic removal of emerging organic pollutants from wastewater
Name of Authors	Sapna Raghav, Vishwajit Chavda, Anjali Yadav, Gandhi Mansi, Jyoti Raghav, Pallavi Jain, Dinesh Kumar
Name of Corresponding Author	Pallavi Jain, Dinesh Kumar
Name of the Journal	Applied Materials Today
Indexed	SCOPUS
ISSN No.	2352-9407
URL	https://www.sciencedirect.com/science/article/abs/pii/S2352940725002847
Date of Publication	07-08-2025
SDG	Clean Water and Sanitation

03

Enrollment No	229999905001
Title of Article	Recent advances in COF-based strategies for dye pollution remediation: materials design, mechanistic insight, and future outlook
Name of Authors	Sapna Raghav, Mansi Gandhi, Yuvrajsinh B. Rajput, Ravindra Prasad, Pallavi Jain, Vishwajit Chavda, Dinesh Kumar
Name of Corresponding Author	Pallavi Jain, Vishwajit Chavda, Dinesh Kumar
Name of the Journal	Separation and Purification Technology
Indexed	SCOPUS
ISSN No.	1873-3794
URL	https://www.sciencedirect.com/science/article/abs/pii/S1383586625034136
Date of Publication	27-08-2025
SDG	Clean Water and Sanitation

04

Enrollment No	219999906009
Title of Article	Application of Homotopy Analysis Method for Solving Fingero-Imbibition Equations in Enhanced Oil Recovery
Name of Authors	Anuj Pankajbhai Raval, Miteshkumar Sureshbhai Joshi
Name of Corresponding Author	Anuj Pankajbhai Raval
Name of the Journal	Improved Oil and Gas Recovery
Indexed	SCOPUS
ISSN No.	2688-8246
URL	https://www.smartscitech.com/index.php/IOGR/article/view/1404
Date of Publication	29-08-2025
SDG	Clean Water and Sanitation, Industry, Innovation and Infrastructure, Climate Action

PATENTS

Patents (Engineering-Supervisors)

01

Name of Institute	Government Engineering College, Bharuch (014)
Types of Patent	Utility
Title of Patent	Electro-Mechanical Control based Weighing and Dispensing Machine for Granular Material
Name of Inventors	Perna Pravinchandra Shah, Kalpeshkumar Vasantbhai Modi, Karan Ravindrabhai Sutar, Virajsinh Shailendrasinh Borasiya, Jainesh Dharmesh Dindoliwala, Dhruvkumar Sunilkumar Chauhan, Bhavin Ketankumar Joshi
Name of Applicant	Perna Pravinchandra Shah, Kalpeshkumar Vasantbhai Modi, Karan Ravindrabhai Sutar, Virajsinh Shailendrasinh Borasiya, Jainesh Dharmesh Dindoliwala, Dhruvkumar Sunilkumar Chauhan, Bhavin Ketankumar Joshi
Patent No.	202521075665
Status of Patent	Published
Country of Filing	India
Date of Publication	05-09-2025
SDG	Industry, Innovation and Infrastructure

Patents (Management-Supervisors)

02

Name of Institute	SRK Institute of Management, Anjar (781)
Types of Patent	Utility
Title of Patent	Analysis of HR Operations and Organizational Performance In India
Name of Inventors	Dr. Vijay Pithadia, Dr. Gangadhar Pandurang Satav, Dr. Mugundhan, Dr. S. S.Yaamini Priya, S. Kalpana, Mrs. K. Sivakamipriya, Dr. S. Prabakaran, Dr .I. M. Christina Febiula, Dr. Nitin Devidas Shrigiriwar, Mrs. M. Nithyalakshmi, Dr. P. Sudarkodi, Dr. B. Shoba
Name of Applicant	Dr. Vijay Pithadia, Dr. Gangadhar Pandurang Satav, Dr. Mugundhan, Dr. S. S.Yaamini Priya, S. Kalpana, Mrs. K. Sivakamipriya, Dr. S. Prabakaran, Dr .I. M. Christina Febiula, Dr. Nitin Devidas Shrigiriwar, Mrs. M. Nithyalakshmi, Dr. P. Sudarkodi, Dr. B. Shoba
Patent No.	202521069089
Status of Patent	Published
Country of Filing	India
Date of Publication	01-08-2025
SDG	Decent Work and Economic Growth

Patents (Engineering-Scholars)

01

Enrollment No.	199999919525
Types of Patent	Utility
Title of Patent	A System and Method for Minimum Quantity Lubrication Incorporating a Dual-Nanoparticle Cutting Fluid Composition and its Synthesis for Turning Operations
Name of Inventors	Nalbandh, Mr. Altaf Hanifbhai, Chavda, Dr. Neerajkumar Kabirdin, Bumataria, Dr. Rakesh Kantilal, Nandaniya, Mr. Meraman Parbatbhai, Gujarat Technological University
Name of Applicant	Nalbandh, Mr. Altaf Hanifbhai, Chavda, Dr. Neerajkumar Kabirdin, Bumataria, Dr. Rakesh Kantilal, Nandaniya, Mr. Meraman Parbatbhai, Gujarat Technological University
Patent No.	202521056040
Status of Patent	Published
Country of Filing	South Africa
Date of Publication	04-07-2025
SDG	Good Health and Well-being, Affordable and Clean Energy, Industry, Innovation and Infrastructure, Climate Action

02

Enrollment No.	2299999913014
Types of Patent	Utility
Title of Patent	A Post-Quantum Secure Decentralized Identifiers Method for Blockchain
Name of Inventors	Dr. Vikram Mohanlal Agrawal, Dixa Hardik Koradia
Name of Applicant	Dr. Vikram Mohanlal Agrawal, Dixa Hardik Koradia
Patent No.	202521064344
Status of Patent	Published
Country of Filing	India
Date of Publication	01-08-2025
SDG	Industry, Innovation and Infrastructure, Peace, Justice and Strong Institutions, Partnerships for the Goals

03

Enrollment No.	219999919025
Types of Patent	Design
Title of Patent	Coronary Stent
Name of Inventors	Jayeshbhai Rasiklal Koisa, Dr. Patel Vinaykumar Jashbhai
Name of Applicant	Jayeshbhai Rasiklal Koisa, Dr. Patel Vinaykumar Jashbhai
Patent No.	442202-001
Status of Patent	Granted
Country of Filing	India
Date of Publication	11-07-2025
SDG	Good Health and Well-being, Industry, Innovation and Infrastructure

04

Enrollment No.	209999915001
Types of Patent	Design
Title of Patent	Metasurface Absorber Antenn
Name of Inventors	Mr. Jigar Maheshbhai Patel, Dr. Rahul D. Mehta
Name of Applicant	Mr. Jigar Maheshbhai Patel, Dr. Rahul D. Mehta
Patent No.	469270-001
Status of Patent	Filed
Country of Filing	India
Date of Publication	11-08-2025
SDG	Industry, Innovation and Infrastructure

Patents (Engineering-Scholars)

01

Enrollment No.	229999905001
Types of Patent	Design
Title of Patent	Electrochemical Cell for EIS Analysis
Name of Inventors	Dr. Deepak Kumar, Maitri Patel, Navinbhai Arjanbhai Chaudhary, Dr. Anji Reddy Polu, Dr. Vishwajit Ranjitsinh Chavda, Gandhi Mansi Kaushikbhai, Dr. Ashvinikumar N. Prajapati
Name of Applicant	Dr. Deepak Kumar, Maitri Patel, Navinbhai Arjanbhai Chaudhary, Dr. Anji Reddy Polu, Dr. Vishwajit Ranjitsinh Chavda, Gandhi Mansi Kaushikbhai, Dr. Ashvinikumar N. Prajapati
Patent No.	454795-001
Status of Patent	Granted
Country of Filing	India
Date of Publication	31-07-2025
SDG	Affordable and Clean Energy, Industry, Innovation and Infrastructure, Responsible Consumption and Production, Climate Action

02

Enrollment No.	229999905001
Types of Patent	Design
Title of Patent	AI controlled methane reforming device
Name of Inventors	Yuvrajsinh Bhavansinh Rajput, Dr. Vishwajit Ranjitsinh Chavda, Kenit Acharya, Patel Naitik Kumar Harshadbhai, Kirankumar J. Chaudhary, Gandhi Mansi Kaushikbhai, Jyoti Ajudiya, Dhaval Sudhirbhai Chauhan, Kuldipkumar Kanubhai Chaudhary, Dr. Sapna Raghav
Name of Applicant	Yuvrajsinh Bhavansinh Rajput, Dr. Vishwajit Ranjitsinh Chavda, Kenit Acharya, Patel Naitik Kumar Harshadbhai, Kirankumar J. Chaudhary, Gandhi Mansi Kaushikbhai, Jyoti Ajudiya, Dhaval Sudhirbhai Chauhan, Kuldipkumar Kanubhai Chaudhary, Dr. Sapna Raghav
Patent No.	458760-001
Status of Patent	Granted
Country of Filing	India
Date of Publication	12-09-2025
SDG	Affordable and Clean Energy, Industry, Innovation and Infrastructure, Responsible Consumption and Production, Climate Action

BOOKS

01

Name of Institute	Dr. Dayaram Patel Pharmacy College, Bardoli (406)
Title of Book/Chapter	Eye Melanoma Unveiled Cutting-Edge Diagnosis, Revolutionary Treatments and Advanced Drug Delivery
Name of Authors	Bhupendra G. Prajapati, Devesh U. Kapoor and Nemat Ali
ISBN No.	978-0-443-27541-8
URL	https://www.sciencedirect.com/book/9780443275418/eye-melanoma-unveiled#editorsEye Melanoma Unveiled Cutting-Edge Diagnosis, Revolutionary Treatments and Advanced Drug Delivery
Date of Publication	23-09-2025
SDG	Good Health and Well-being

AWARDED PHD THESIS ABSTRACTS

Ph.D. Thesis Abstract (Engineering)

01

Name	Anandkumar Dipakbhai Pandya
Enrollment No	179999913003
Title of Thesis	Intelligent Energy Efficient Routing Protocol for Wireless Sensor Network
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(6)_347005.pdf

02

Name	Pathak Darshita Suryakantbhai
Enrollment No	199999913551
Title of Thesis	SARTH: Three Stage Hindi Songs Classification based on Genre, Lyrics & Lyricist
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(5)_223647.pdf

03

Name	Trivedi Himani Vatsalkumar
Enrollment No	199999913561
Title of Thesis	Discriminative Features Based Robust Face Recognition in Diverse Conditions
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(10)_648490.pdf

04

Name	Patel Hirenkumar Ramanbhai
Enrollment No	169999913011
Title of Thesis	SLA Aware Resource Management in Cloud Computing
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(8)_798892.pdf

05

Name	Patel Shaktikumar Vishnubhai
Enrollment No	189999913041
Title of Thesis	A hybrid music recommendation system for automatic playlist Continuation using machine learning
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(13)_318041.pdf

06

Name	Kumhar Mala Ram
Enrollment No	199999913531
Title of Thesis	Design and Development of Intelligent Framework for SDN-enabled IoT-based Healthcare System
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/199999913531_Abtract_683328.pdf

07

Name	Aanal Sanjivbhai Raval
Enrollment No	201379913002
Title of Thesis	Examining and Enhancement of eclectic blend of topics using ML Techniques from social media content for comprehensive user recommendations.
Faculty/Discipline	Computer Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(7)_202773.pdf

08

Name	Daxini Bhautik Maheshbhai
Enrollment No	199999917502
Title of Thesis	A Novel Deep Learning Approach for the Medical Imaging of Abdominal Organs
Faculty/Discipline	Instrumentation & Control Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(1)_411254.pdf

09

Name	Prashant Kaushikbhai Shah
Enrollment No	179999914012
Title of Thesis	Custom Power Device based Power Quality Enhancement and Power Flow Management in Solar PV based Grid Tie Renewable System.
Faculty/Discipline	Electrical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract_732725.pdf

10

Name	Baria Jaydeepsinh Chhatrasinh
Enrollment No	199999914502
Title of Thesis	Performance Analysis of Interior Permanent Magnet Synchronous Motor (IPMSM) Drive System Using Different Speed Controllers
Faculty/Discipline	Electrical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(25)_555638.pdf

11

Name	Parmar Sheetal Shantilal
Enrollment No	199999914538
Title of Thesis	Design and implementation of an Improved battery charger for Two-wheeler Electric Vehicle
Faculty/Discipline	Electrical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20of%20the%20Thesis_199999914538_540777.pdf

12

Name	Pathak Yashodhar Pravinkumar
Enrollment No	189999912029
Title of Thesis	Machine Learning & GIS Based Landslide Susceptibility Modelling for the Part of Himachal Pradesh, India
Faculty/Discipline	Civil Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(15)_513014.pdf

13

Name	Meeta Purushottam Chauhan
Enrollment No	199999919507
Title of Thesis	Sme Industries Sustainability Analysis by Energy Optimization using IOT
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(28)_297128.pdf

14

Name	Maheshkumar Ambalal Makwana
Enrollment No	169999919006
Title of Thesis	Design and Development of Delta Type Parallel Robot having Dynamic Workspace
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(31)_450735.pdf

15

Name	Jigneshkumar Ramniklal Vala
Enrollment No	179999919020
Title of Thesis	Numerical Investigation to Enhance the Performance of Low Speed Axial Flow Fan using TIP Recess VAN Technique
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(1)_907089.pdf

Ph.D. Thesis Abstract (Management)

01

Name	Manisha Bhikhubhai Bhavnani
Enrollment No	199999903533
Title of Thesis	A Pragmatic Study and Analysis of Investment Pattern And Behavior Of Working Women in Choice of Different Investment Avenues – With Reference To Selected Cities of Saurashtra Region
Faculty/Discipline	Management
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(11)_215053.pdf

02

Name	Priyanka Hirenkumar Patel
Enrollment No	209999903031
Title of Thesis	Examining Factors Influencing Personal Finance Behavior Of Investor In Gujarat : Using The Theory Of Planned Behavior Model
Faculty/Discipline	Management
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(1)_441865.pdf

03

Name	Panchal Bhavikkumar Rameshbhai
Enrollment No	199999903519
Title of Thesis	Analyzing Reverse Mortgage Loan as Reference to Gujarat State
Faculty/Discipline	Management
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract_180404.pdf

04

Name	Chotai Arati Navinchandra
Enrollment No	199999903504
Title of Thesis	A Study on Stress Management of Employees of Selected Public Sector and Private Sector banks with Special Reference to Saurashtra Region
Faculty/Discipline	Management
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Format_Abstract%20of%20the%20Thesis1_618303.pdf

Ph.D. Thesis Abstract (Pharmacy)

01

Name	Pande Sonal Vijay
Enrollment No	219999901004
Title of Thesis	Enhancement of Bioavailability of Quercetin and Naringin using probiotic and Vitamin A: Pharmacokinetic Profiling and Neuroprotective efficacy in an ICV-STZ Induced Alzheimer's Disease Model
Faculty/Discipline	Pharmacy
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(12)_405970.pdf

02

Name	Jadav Mukti Anilkumar
Enrollment No	199999901508
Title of Thesis	Evaluation of herbal combination for the treatment of rheumatoid arthritis
Faculty/Discipline	Pharmacy
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20of%20the%20Thesis_199694.pdf

Ph.D. Thesis Abstract (Science-Physics)

01

Name	Tejas Rameshchandra Shah
Enrollment No	199999907504
Title of Thesis	To investigate transport properties of carbon based low dimensional structures.
Faculty/Discipline	Science-Physics
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(9)_929193.pdf

Ph.D. Thesis Abstract (Science-Mathematics)

01

Name	Gopal Hariram Nanda
Enrollment No	219999906007
Title of Thesis	Mathematical Study of Magnetohydrodynamics of Nano Fluids over Conventional Fluids
Faculty/Discipline	Science-Mathematics
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(27)_131472.pdf

02

Name	Khan Sadikabanu Musirahmed
Enrollment No	219999906006
Title of Thesis	Some investigation on Conformal and Projective change in Finsler spaces and its Applications
Faculty/Discipline	Science-Mathematics
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/ABSTRACT_219999906006_957372.pdf

03

Name	Vijaykumar Keshubhai Patel
Enrollment No	199999906507
Title of Thesis	Numerical Investigation of Hybrid Nanofluid Flow over Exponentially Stretching/Shrinking Sheet
Faculty/Discipline	Science-Mathematics
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(1)_726752.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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