



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

Bulletin - Research & Academic Publications

NOVEMBER-DECEMBER, 2024

INDEX

Sr. No.	Title	Page No.
01	Research Papers	07-21
02	Patents	22
03	Books	23
04	Awarded PhD Thesis Abstracts	24-29

DISCLAIMER

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SUMMARY (Nov.-Dec., 2024)

Sr. No.	Title	No.
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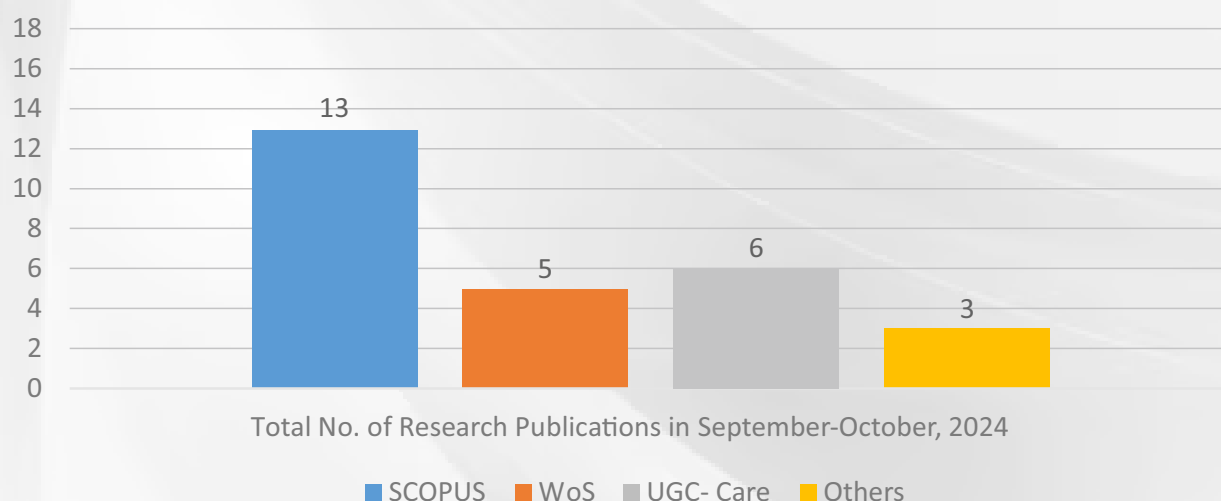
01	Research Papers	SCOPUS	13
		WoS	5
		UGC- Care	6
		Others	3

02	Patents	Utility	2
		Design	1

03	Books	3
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04	Awarded Ph.D. Thesis Abstract	24
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Total No. of Research Publications in November-December 2024



MESSAGE FROM HON'BLE VICE CHANCELLOR



Dear Faculty Members and Researchers,

It is a great pleasure to release the sixth 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 encourage a vibrant and dynamic research ecosystem. Thanks to the efforts of our faculty members and researchers. Together, we are laying the foundation for a future defined with meaningful contributions in areas of engineering and technology, pharmacy, management, applied sciences and multidisciplinary areas.

Your publications facilitates towards sustainable development. The knowledge generated through your research bring us a step closer to realizing our vision of an equitable, inclusive and sustainable society.

Through this bulletin we have the opportunity to expand our influence, reaching a wider and more diverse audience, including potential industry who share our vision for progress.

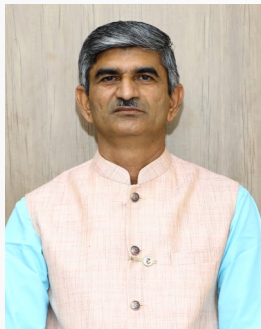
Congratulations to all those whose work is featured in this bulletin. Please reach out to the GTU R&D Cell, for your research contributions, which works actively to bring together industry, researchers and innovators.

Best Wishes,

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



MESSAGE FROM REGISTRAR



Dear Faculty and Researchers,
Namaskar!!

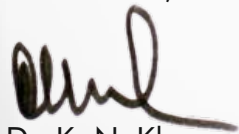
I am really impressed by growth that you all have made through your academic achievements. Your dedication towards achieving academic excellence through your publications in quality journals is very essential in advancing the University's commitment towards excellence.

Through this bulletin, we celebrate your hard work and recognize your research efforts. Research is at the very core for any institution and your high-impact publications helps elevate the University's reputation and academic influence.

My congratulations to all those involved in advancing knowledge and supporting this initiative. I also encourage our faculty members and researchers to continue making impactful contributions, further strengthening our research ecosystem. Kindly inform the R&D Cell with your achievements.

Let us remain steadfast in our pursuit of achieving excellence, working together to improve lives that impact our surroundings.

Best Wishes,



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

MESSAGE FROM DIRECTOR, RDC



Dear Faculties and Researchers,

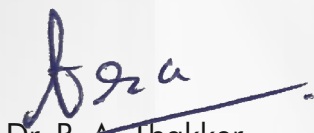
It is with great pleasure writing this message for the sixth consecutive issue of our bimonthly bulletin which highlights the academic and research achievements of the university's research scholars and supervisors.

This bulletin provides a bimonthly summary of our research-related activities including publications of research articles, patents filed/published/granted, books published and PhD theses awarded. The statistics published in the bulletin guides the R & D cell to organize relevant research events that are useful for furtherance of research related activities at the university.

It is a kind request to all the stakeholders of GTU to circulate this bulletin among the members of the academic and scientific fraternity. Accurate and timely data to the R&D Cell ensures the timely and consistent release of this publication every three months from the next issue.

I extend my sincere thanks to the research scholars and research supervisors for their invaluable contributions in providing the necessary data for this compilation. We look forward to their continued support in bringing out the future issues of the quarterly bulletin.

Congratulations to the R&D team for their initiative and dedicated efforts in bringing this bulletin.



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

RESEARCH PAPERS

Research Papers (Engineering-Supervisors)

01

Name of Institute	L. D. College of Engineering (028)
Title of Article	An approach for real-time implementation of cyber security in power system network
Name of Authors	Kunal A. Bhatt, Jyoti R. Iyer, Shailendra Gupta, Vaibhav Pandya, Raj Thawani and Bhavesh R. Bhalja
Name of Corresponding Author	Jyoti R. Iyer, Shailendra Gupta, Vaibhav Pandya, Raj Thawani and Bhavesh R. Bhalja
Name of the Journal	International Journal of Emerging Electrical Power Systems
Indexed	WoS
ISSN No.	1553-779X
URL	https://doi.org/10.1515/ijeeps-2024-0192
Date of Publication	05-11-2024
SDG	Affordable and Clean Energy, Industry, Innovation and Infrastructure, Sustainable Cities and Communities

02

Name of Institute	Government Engineering College, Valsad (019)
Title of Article	Industrial Plant Automation Management Best Practices for Great Outcomes
Name of Authors	Kashyap L. Mokariya, Patel Snehal S., Ganesh R. Patil, Nikunj R Patel
Name of Corresponding Author	Kashyap L. Mokariya
Name of the Journal	Indian Journal of Natural Sciences
Indexed	WoS
ISSN No.	0976-0997
URL	https://www.tnsroindia.org.in/JOURNAL/issue87/ISSUE%2087%20-%20DECEMBER%202024%20-%20FULL%20TEXT%20PART%2001.pdf
Date of Publication	11-11-2024
SDG	Industry, Innovation and Infrastructure

03

Name of Institute	Government Engineering College, Valsad (019)
Title of Article	A Novel Approach to the Design and Development of a C-Core Sandwich-Type Radial Field Switched Reluctance Motor with On-Shaft Implementation in EV Application
Name of Authors	Dr. Nikunj Patel, Kashyap L. Mokariya, Jiten K. Chavda, Surekha Patil
Name of Corresponding Author	Dr. Nikunj Patel
Name of the Journal	SAE International Journal of Electrified Vehicles
Indexed	WoS
ISSN No.	2691-3747
URL	https://saemobilus.sae.org/articles/a-novel-approach-design-development-a-c-core-sandwich-type-radial-field-switched-reluctance-motor-shaft-implementation-ev-application-14-14-01-0007
Date of Publication	19-11-2024
SDG	Affordable and Clean Energy, Industry, Innovation and Infrastructure

04

Name of Institute	L. D. College of Engineering (028)
Title of Article	Microwave-assisted pyrolysis of low-density polyethylene (LDPE) to value-added products over HY, HZSM-5 and H β catalyst
Name of Authors	Rohit R. Mishra , Paresh H. Rana , Parimal A. Parikh
Name of Corresponding Author	Paresh H. Rana
Name of the Journal	Materials Today Communications
Indexed	WoS
ISSN No.	2352-4928
URL	https://doi.org/10.1016/j.mtcomm.2024.110829
Date of Publication	01-12-2024
SDG	Affordable and Clean Energy, Sustainable Cities and Communities

05

Name of Institute	Government Enginnering College, Valsad (019)
Title of Article	Energy Efficiency Enhancement in Pumping System to Boost Nation's Economy
Name of Authors	K. L. Mokariya Krupa Gandhi Snehal Patel
Name of Corresponding Author	K. L. Mokariya
Name of the Journal	Indian Institutions of Industrial Engineering
Indexed	UGC Care
ISSN No.	0970-2555
URL	https://www.iiie-india.com/IIIE/ie-journal.php
Date of Publication	11-11-2024
SDG	Industry, Innovation and Infrastructure

06

Name of Institute	C.K. Pithawalla College of Engg. & Technology, Surat (009)
Title of Article	Impact Analysis of Water Quality in Water Distribution Network on water Borne Disease in Ahmedabad, India using Artificial Neural Network
Name of Authors	Jalpa P. Modi, Dr. Reena Popawala
Name of Corresponding Author	Jalpa P. Modi
Name of the Journal	Indian Water Works Association
Indexed	UGC Care
ISSN No.	0970-275X
URL	https://www.iwwa.info/journal-archives?vol-id=Mjlz
Date of Publication	30-12-2024
SDG	Clean Water and Sanitation

Research Papers (Pharmacy-Supervisors)

01

Name of Institute	Anand Pharmacy College (205)
Title of Article	Green metrics-based HPLC method for quantification of three antidiabetic drugs in tablet dosage form using Box-Behnken design
Name of Authors	Patel Kalpana, Babariya Raj, Patel Ritika, Tandel Devang, Parmar Rajesh & Gandhi Tejal
Name of Corresponding Author	Patel Kalpana
Name of the Journal	Accreditation and Quality Assurance
Indexed	SCOPUS
ISSN No.	0949-1775
URL	https://link.springer.com/article/10.1007/s00769-024-01625-7
Date of Publication	06-11-2024
SDG	Good Health and Well-being

02

Name of Institute	C. K. Pithawalla Institute of Pharmaceutical Science and Research (216)
Title of Article	A synoptic examination of commercially viable nanofiber-based products
Name of Authors	Divya R. Chaudhari, Vinod D. Ramani, Dhiren P. Shah, Devendra Vaishnav, Devesh U. Kapoor
Name of Corresponding Author	Vinod D. Ramani
Name of the Journal	Journal of Drug Delivery Science and Technology
Indexed	SCOPUS
ISSN No.	2588-8943
URL	https://www.sciencedirect.com/science/article/abs/pii/S1773224724009924?via%3Dihub
Date of Publication	12-11-2024
SDG	Good Health and Well-being

03

Name of Institute	Dr. Dayaram Patel Pharmacy College, Bardoli (406)
Title of Article	Aestheticizing the Self-Stabilized Pickering Emulsion of Capecitabine: Harnessing Polysarcosine Nanoparticles for Exquisite Targeted Therapy of Squamous Cell Carcinoma; An Elaborate In Vivo and In Vitro Evaluation
Name of Authors	Arinjay Jain, Sankha Bhattacharya, Devesh U. Kapoor, Bhupendra G. Prajapati
Name of Corresponding Author	Sankha Bhattacharya
Name of the Journal	BioNanoScience
Indexed	SCOPUS
ISSN No.	2191-1649
URL	https://link.springer.com/article/10.1007/s12668-024-01670-z
Date of Publication	10-12-2024
SDG	Good Health and Well-being

04

Name of Institute	Dr. Dayaram Patel Pharmacy College, Bardoli (406)
Title of Article	Multivariate Optimization of Carbamazepine-Loaded Nanostructured Lipid Carriers for Brain Targeting and Epilepsy Management
Name of Authors	Priya Patel, Rachana Vaidya, Yashwini Kansara, Pranav Shah, Devesh U. Kapoor, Bhupendra G. Prajapati
Name of Corresponding Author	Priya Patel
Name of the Journal	BioNanoScience
Indexed	SCOPUS
ISSN No.	2191-1649
URL	https://link.springer.com/article/10.1007/s12668-024-01624-5
Date of Publication	28-12-2024
SDG	Good Health and Well-being

05

Name of Institute	Anand Pharmacy College (205)
Title of Article	Fabrication and Optimization of Glibenclamide Drug Delivery System Using Pulsatile Approach for Hyperglycemia
Name of Authors	Sunny Desai, Vaishali Thakkar, Tejal Gandhi, Amish Gandhi, Khyati Parekh, Arjun Joshi
Name of Corresponding Author	Vaishali Thakkar
Name of the Journal	International Journal of Pharmaceutical Sciences and Drug Research
Indexed	UGC Care
ISSN No.	0975-248X
URL	https://iipsdronline.com/index.php/journal/article/view/9894
Date of Publication	30-11-2024
SDG	Good Health and Well-being

06

Name of Institute	Apmc College of Pharmaceutical Education & Research (207)
Title of Article	Development, Validation and Greenness Assessment of Stability Indicating RP-HPLC Method for Simultaneous Quantification of Dapagliflozin and Metoprolol Succinate in Synthetic Mixture
Name of Authors	Sapna Rathod, Ayushi Shah, Nisarg Patel
Name of Corresponding Author	Sapna Rathod
Name of the Journal	International Journal of Pharmaceutical Sciences and Drug Research
Indexed	UGC Care
ISSN No.	0975-248X
URL	https://iipsdronline.com/index.php/journal/article/view/10090
Date of Publication	30-11-2024
SDG	Affordable and Clean Energy

Name of Institute	Anand Pharmacy College (205)
Title of Article	The combined effect of medicinal plant extract and sulfonylurea agent: a preliminary study to evaluate anti-diabetic potential in experimental animals
Name of Authors	Sunny Desai, Vaishali Thakkar, Tejal Gandhi
Name of Corresponding Author	Vaishali Thakkar
Name of the Journal	Journal of Medical Pharmaceutical and Allied Sciences (JMPAS)
Indexed	Others
ISSN No.	2320-7418
URL	https://jmpas.com/abstract/1299
Date of Publication	23-12-2024
SDG	Good Health and Well-being

Research Papers (Management-Supervisors)

01

Name of Institute	Narmada College of Management, Bharuch (737)
Title of Article	Understanding Behavioural Biases Driving Equity Investors in India: A Factor Analysis Approach
Name of Authors	Chetna Makwana
Name of Corresponding Author	Chetna Makwana
Name of the Journal	Metamorphosis - A Journal of Management Research
Indexed	UGC Care
ISSN No.	2348-9324
URL	https://journals.sagepub.com/toc/MET/current
Date of Publication	01-12-2024
SDG	Decent Work and Economic Growth, Industry, Innovation and Infrastructure

Research Papers (Engineering-Scholars)

01

Enrollment No	211379913001
Title of Article	Enhanced Particle Swarm Optimization-Based Approach to Firewall Optimal Rule Reordering
Name of Authors	Dhwani Hakani, Palvinder Singh Mann
Name of Corresponding Author	Palvinder Singh Mann
Name of the Journal	International Journal of Computer Theory and Engineering
Indexed	SCOPUS
ISSN No.	1793-8201
URL	https://www.ijcte.org/vol16/IJCTE-V16N4-1361.pdf
Date of Publication	20-11-2024
SDG	Quality Education

02

Enrollment No	189999914001
Title of Article	Designing & Analyzing an EV Battery Charger with Enhanced Power Quality
Name of Authors	Alpeshbharathi R. Gauswami, Hardik A. Shah, Shaktisinh N. Gohil
Name of Corresponding Author	Hardik A. Shah
Name of the Journal	Journal of Electrical Systems
Indexed	SCOPUS
ISSN No.	1112-5209
URL	https://journal.esrgroups.org/jes/article/view/7351/
Date of Publication	20-11-2024
SDG	Industry, Innovation and Infrastructure

03

Enrollment No	199999919501
Title of Article	Numerical Investigation of Deep Drawing Process by Response Surface Methodology
Name of Authors	Dr.Jaydeep K Dadhaniya, Mehul V Ardeshana
Name of Corresponding Author	Dr. Jaydeep K. Dadhaniya
Name of the Journal	SSRG-International Journal of Mechanical Engineering
Indexed	SCOPUS
ISSN No.	2348-8360
URL	https://doi.org/10.14445/23488360/IJME-V11I11P106
Date of Publication	30-11-2024
SDG	Industry, Innovation and Infrastructure

04

Enrollment No	199999914508
Title of Article	Design and Simulation of SEPIC Converter for EV Battery Charger
Name of Authors	Shaktisinh N. Gohil, Hardik A. Shah, Alpesh R. Gauswami
Name of Corresponding Author	Hardik A. Shah
Name of the Journal	SSRG International Journal of Electrical and Electronics Engineering
Indexed	SCOPUS
ISSN No.	2348-8379
URL	https://doi.org/10.14445/23488379/IJEEE-V11I11P110
Date of Publication	30-11-2024
SDG	Industry, Innovation and Infrastructure

05

Enrollment No	229999911001
Title of Article	Process development and optimization of sustainable and integrated large scale ammonia production process using water electrolysis based green hydrogen: Investigating process, energy, economic & environmental perspectives
Name of Authors	Swaprabha P. Patel, Ashish M. Gujarathi, Piyush B. Vanzara
Name of Corresponding Author	Ashish M. Gujarathi
Name of the Journal	International Journal of Hydrogen Energy
Indexed	SCOPUS
ISSN No.	0360-3199
URL	https://doi.org/10.1016/j.ijhydene.2024.10.361
Date of Publication	03-12-2024
SDG	Affordable and Clean Energy, Industry, Innovation and Infrastructure

06

Enrollment No	211379913001
Title of Article	Memory management of firewall filtering rules using modified tree rule approach
Name of Authors	Dhwani Hakani, Palvinder Singh Mann
Name of Corresponding Author	Palvinder Singh Mann
Name of the Journal	International Journal of Informatics and Communication Technology (IJ-ICT)
Indexed	SCOPUS
ISSN No.	2252- 8776
URL	https://doi.org/10.1016/j.ijhydene.2024.10.361
Date of Publication	30-12-2024
SDG	Quality Education

07

Enrollment No	179999919031
Title of Article	Stoichiometric Thermodynamic Equilibrium Models for Downdraft Gasifiers: A Review
Name of Authors	Dipakkumar J. Parmar, Vimal R. Patel, Shyam K. Dabhi
Name of Corresponding Author	Vimal R. Patel
Name of the Journal	Paliva (Fuels)
Indexed	SCOPUS
ISSN No.	1804-2058
URL	https://paliva.vscht.cz/en/all-issues/detail/66
Date of Publication	31-12-2024
SDG	Affordable and Clean Energy

08

Enrollment No	179999919006
Title of Article	Development of novel thermal storage integrated pasteurizer for solar milk pasteurization system
Name of Authors	Shyam K. Dabhi, Vimal R. Patel, Mazar A. Shaikh, Dipakkumar J. Parmar
Name of Corresponding Author	Dr. Vimal R. Patel
Name of the Journal	Applied Thermal Engineering
Indexed	WoS
ISSN No.	1359-4311
URL	https://doi.org/10.1016/j.applthermaleng.2024.125375
Date of Publication	31-12-2024
SDG	Affordable and Clean Energy, Industry, Innovation and Infrastructure, Sustainable Cities and Communities, Climate Action

Enrollment No	199999913540
Title of Article	Comparative Analysis of Denoising Methods to Improve Image Quality for Medical Visual Question Answering
Name of Authors	Rikita D. Parekh, Hiteishi M. Diwanji
Name of Corresponding Author	Rikita D. Parekh
Name of the Journal	International Journal of Next-Generation Computing
Indexed	UGC Care
ISSN No.	0976-5034
URL	https://ijngc.perpetualinnovation.net/index.php/ijngc/article/view/1773
Date of Publication	17-12-2024
SDG	Industry, Innovation and Infrastructure

Research Papers (Science-Scholars)

01

Enrollment No	199999907505
Title of Article	Review on Magnetic Field Responsive Colloids Synthesis and Applications
Name of Authors	Keyur Khatsuriya, Hem Bhatt, Pratik Lakhani, Jaysukh Markna, Bharat Kataria
Name of Corresponding Author	Keyur Khatsuriya
Name of the Journal	Nanotechnology Perceptions
Indexed	SCOPUS
ISSN No.	1660-6795
URL	https://nano-ntp.com/index.php/nano/article/view/4520
Date of Publication	18-12-2024
SDG	Affordable and Clean Energy

02

Enrollment No	199999907505
Title of Article	Varying Refractive Index Induced Intensity Correlations in Magnetic Colloids
Name of Authors	Keyur Khatsuriya, Pratik Lakhani, Hem Bhatt, Jaysukh Markna, Bharat Katariya
Name of Corresponding Author	Keyur Khatsuriya
Name of the Journal	Nanotechnology Perceptions
Indexed	SCOPUS
ISSN No.	1660-6795
URL	https://nano-ntp.com/index.php/nano/article/view/4052
Date of Publication	22-12-2024
SDG	Affordable and Clean Energy

Research Papers (Management-Scholars)

01

Enrollment No	229999903010
Title of Article	Artificial Intelligence Opportunities and Challenges of in the Tourism Industry
Name of Authors	Ms. Dipal Gohil
Name of Corresponding Author	Dr. Vijay Pithadia
Name of the Journal	Journal of Emerging Technologies and Innovative Research
Indexed	Others
ISSN No.	2349-5162
URL	https://www.jetir.org/view?paper=JETIR2411015
Date of Publication	05-11-2024
SDG	Decent Work and Economic Growth

02

Enrollment No	229999903010
Title of Article	Forecasting Women in Leadership Positions
Name of Authors	Ms. Dipal Gohil
Name of Corresponding Author	Dr. Vijay Pithadia
Name of the Journal	International Journal of Novel Research and Development (IJNRD)
Indexed	Others
ISSN No.	2456-4184
URL	https://ijnrd.org/viewpaperforall.php?paper=IJNRD2411237
Date of Publication	11-11-2024
SDG	Good Health and Well-being

PATENTS

Patents (Engineering)

01

Enrollment No.	L.D. College of Engineering (028)
Types of Patent	Utility
Title of Patent	Power Theft Detection in Distribution Network Using NODEMCU, Current Transducers, and Server Integration
Name of Inventors	Patel Sneha Bharatbhai, Pal Gaurav Rameshprasad, Shailendra Gupta, Pandya Vaibhav Umeshbhai, Raj Thwani, Prince Goswami, Adwani Deepak, Prof. (Dr.) K. A. Bhatt, Prof. (Dr.) J.R. Iyer, Prof. (Dr.) K.P. Badgujar
Name of Applicant	L.D. College of Engineering, Patel Sneha Bharatbhai, Pal Gaurav Rameshprasad, Shailendra Gupta, Pandya Vaibhav Umeshbhai, Raj Thwani, Prince Goswami, Adwani Deepak, Prof. (Dr.) K. A. Bhatt, Prof. (Dr.) J.R. Iyer, Prof. (Dr.) K.P. Badgujar
Patent No.	202421079419
Status of Patent	Published
Country of Filing	India
Date of Publication	20.12.2024
SDG	Industry , Innovation and Infrastructure

02

Enrollment No.	Government Polytechnic, Kheda (972)
Types of Patent	Design
Title of Patent	Safeguard Device
Name of Inventors	Sandeep Singh Vasir, Dr. Pinkesh R. Shah, Dr. S.H. Sundarani
Name of Applicant	Sandeep Singh Vasir, Dr. Pinkesh R. Shah, Dr. S.H. Sundarani
Patent No.	421363-001
Status of Patent	Published
Country of Filing	India
Date of Publication	13.12.2024
SDG	Responsible Consumption and Production

Patents (Pharmacy)

01

Enrollment No.	Anand Pharmacy College (205)
Types of Patent	Utility
Title of Patent	An Inhalation Formulation of Rifampicin and Quercetin Nanoparticles
Name of Inventors	Devang Tandel, Kalpana Patel, Vaishali Thakkar
Name of Applicant	Devang Tandel
Patent No.	202421105173
Status of Patent	Filed
Country of Filing	India
Date of Publication	31-12-2024
SDG	Good Health and Well-being

BOOKS

01

Name of Institute	Pacific School of Engineering (112)
Title of Book/Chapter	Adsorption Studies of Reactive Black 5 Using Activated Bio-Char Prepared by Co-Pyrolysis of Municipal Sewage Sludge (MSS)-Sugarcane Bagasse (SCB)
Name of Authors	Himanshu Patel, Pranav Deepak Pathak
ISBN No.	9781003515029
URL	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003515029-10/adsorption-studies-reactive-black-5-using-activated-bio-char-prepared-co-pyrolysis-municipal-sewage-sludge-mss-sugarcane-bagasse-scb-himanshu-patel-pranav-deepak-pathak
Date of Publication	01-11-2024
SDG	Clean Water and Sanitation

02

Name of Institute	Pacific School of Engineering (112)
Title of Book/Chapter	Removal of Organic Acid From Wastewater by Adsorption: A Case Study of Acetic Acid, Propionic Acid, and Phenylacetic Acid onto a Banana Peel
Name of Authors	Sunil Deokar, Anuja R. Jadhav, Himanshu J. Patel, Saurabh Nitin Joglekar, Pranav Deepak Pathak
ISBN No.	9781003515029
URL	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003515029-12/removal-organic-acid-wastewater-adsorption-case-study-acetic-acid-propionic-acid-phenylacetic-acid-onto-banana-peel-sunil-deokar-anuja-jadhav-himanshu-patel-saurabh-nitin-joglekar-pranav-deepak-pathak
Date of Publication	01-11-2024
SDG	Clean Water and Sanitation

03

Name of Institute	Anand Pharmacy College (205)
Title of Book/Chapter	Advances in Biochemistry in Health and Disease
Name of Authors	Tejal Gandhi, Anita Mehta
ISBN No.	2512-2142
URL	https://www.springer.com/series/7064
Date of Publication	27-12-2024
SDG	Good Health and Well-being

AWARDED PHD THESIS ABSTRACTS

Ph.D. Thesis Abstract (Engineering)

01

Name	Shukla Dhruvin Laxyeshkumar
Enrollment No	189999919066
Title of Thesis	Investigation of Liquid Desiccant Operated Evaporative Cooling System Integrated with Solar Still as Regenerator
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(9)_321924.pdf

02

Name	Shah Jaydeep R.
Enrollment No	179999919051
Title of Thesis	Development, Mechanical Characterization and Sustainability Assessment of Continuous Fiber Reinforced Composites in Fused Filament Fabrication
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract_785908.pdf

03

Name	Thakkar Ashish Maheshkumar
Enrollment No	189999919069
Title of Thesis	Development of Energy Efficient Walking Pattern for Biped Robot
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract_104405.pdf

04

Name	Patel Riteshkumar Mohanbhai
Enrollment No	179999919039
Title of Thesis	Experimental investigation of mechanical and fracture properties of single and dual material 3D printed products
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(16)_875413.pdf

05

Name	Phogat Ritu Ranbirsingh
Enrollment No	189999915024
Title of Thesis	Investigation on Strategies to Improve Energy Efficiency of Massive MIMO
Faculty/Discipline	Electronics and Communication Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(2)_731903.pdf

06

Name	Nayak Himanshukumar Dinanath
Enrollment No	199999915512
Title of Thesis	Hybrid Deep Learning Method for An Efficient Facial Emotion Recognition System.
Faculty/Discipline	Electronics and Communication Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(13)_359552.pdf

07

Name	Dave Chintan Bharatbhai
Enrollment No	179999915005
Title of Thesis	Unsupervised Single Image Dehazing using Estimation of Transmission Map
Faculty/Discipline	Electronics and Communication Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(11)_173646.pdf

08

Name	Devidas Mahadeorao Choudhary
Enrollment No	189999915008
Title of Thesis	Power Quality Improvement and Harmonic Reduction in Induction Melting Furnace systems by using Optimization Control Technique for Multi-pulse Converters
Faculty/Discipline	Electronics and Communication Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract_799178.pdf

09

Name	Tanna Rashmin Shaileshkumar
Enrollment No	189999915030
Title of Thesis	Wearable Sensor System to Track and Classify Movement Patterns of Lower Limb during Rehabilitation Exercises for Medical Purposes
Faculty/Discipline	Electronics and Communication Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(1)_323917.pdf

10

Name	Shah Komal Kishorkumar
Enrollment No	169999913014
Title of Thesis	Relational Data Classifier using Multiple View Approach Performance Enhancement for Multiclass
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract_361220.pdf

11

Name	Dheeraj Kumar
Enrollment No	189999913008
Title of Thesis	Automated Detection and Classification of Cholelithiasis from Ultrasound Image Using Explainable Deep Learning
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(4)_808896.pdf

12

Name	Tandel Saurabh Shantilal
Enrollment No	169999913016
Title of Thesis	Employing Serendipity in Recommender Systems to Overcome the Popularity Bias and Long Tail Problem
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(8)_918166.pdf

13

Name	Hemenkumar Hareshbhai Thakar
Enrollment No	199999921506
Title of Thesis	Experimental Investigation of Advanced GMAW Process for Welding of High Strength Steels Used in Petroleum Refining
Faculty/Discipline	Metallurgy Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(4)_890716.pdf

14

Name	Mandar Jayantbhai Joshi
Enrollment No	149997121003
Title of Thesis	Preparation and Characterization of High Performance Polymer Matrix Nanocomposites for Electronic Applications
Faculty/Discipline	Metallurgy Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(3)_689988.pdf

15

Name	Rana Srujal Pravinchandra
Enrollment No	189999911009
Title of Thesis	Catalytic Conversion of bio-derived 5- HMF into value added derivatives.
Faculty/Discipline	Chemical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(10)_283555.pdf

16

Name	Suresh R. Sharda
Enrollment No	159997109009
Title of Thesis	Optimum Design and Analysis of Electrical Machine using latest available Amorphous/ Nano crystalline metal as Core Material
Faculty/Discipline	Electrical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(15)_425360.pdf

17

Name	Pancholi Utkarsh Vinodchandra
Enrollment No	189999918005
Title of Thesis	Modeling of Transcranial direct current stimulation (tDCS) for healthy and neurologically diseased subjects
Faculty/Discipline	Biomedical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(5)_419750.pdf

Ph.D. Thesis Abstract (Pharmacy)

01

Name	Patel Monaben Rajendrakumar
Enrollment No	199999901536
Title of Thesis	Development and Validation of Spectrophotometric and Chromatographic stability indicating assay methods for Kinase inhibitors
Faculty/Discipline	Pharmacy
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(6)_340496.pdf

02

Name	Yadav Priyanka Mahendrakumar
Enrollment No	159997390003
Title of Thesis	Study on Degradation Behaviour and Impurity Profiling of Drugs and Their Formulation used in the Treatment of Cardiovascular Disorders
Faculty/Discipline	Pharmacy
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(1)_677687.pdf

03

Name	Mevada Shweta Dineshbhai
Enrollment No	199999901535
Title of Thesis	Development and Validation of Analytical Methods for the Hepatoprotective Polyherbal Formulations
Faculty/Discipline	Pharmacy
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(2)_737486.pdf

Ph.D. Thesis Abstract (Management)

01

Name	Brinda Prakashkumar Raycha
Enrollment No	19999903525
Title of Thesis	Workplace Bullying and Employee Productivity at Work: The Role of Resilience and Social Support
Faculty/Discipline	Management
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(8)_176156.pdf

02

Name	Jeel Devendrabhhai Sheth
Enrollment No	189999903014
Title of Thesis	An Analytical Study on Moonlighting among Academicians Working at the Higher Educational Institutions of Selected Districts of Saurashtra Region
Faculty/Discipline	Management
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(12)_307532.pdf

03

Name	Surbhi Kangad
Enrollment No	189999903017
Title of Thesis	An In-Depth Study of Perceptions of Labour towards Management of Industries based in Kachchh w.r.t Selected Labour Legislations of India
Faculty/Discipline	Management
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(7)_729641.pdf

04

Name	Avinashi Asheshbhai Hariprasad
Enrollment No	189999930006
Title of Thesis	An Empirical Investigation of Training Effectiveness With Special Reference to Employees of Pharmaceutical Industry
Faculty/Discipline	Management
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/abstract%20%20Ashesh%20Avinashi_270312.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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(Accredited with A+ Grade by NAAC)
State Government University

Gujarat Technological University

Nr. Vishwakarma Government Engineering College,
Nr. Visat Three Roads, Visat – Gandhinagar Highway,
Chandkheda, Ahmedabad – 382424 – Gujarat

Phone: + 079-23267521 / 526

E mail: rdcell@gtu.edu.in

registrar@gtu.ac.in

www.gtu.ac.in



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