



**GUJARAT
TECHNOLOGICAL
UNIVERSITY**

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

Bulletin - Research & Academic Publications

MAY-JUNE, 2024

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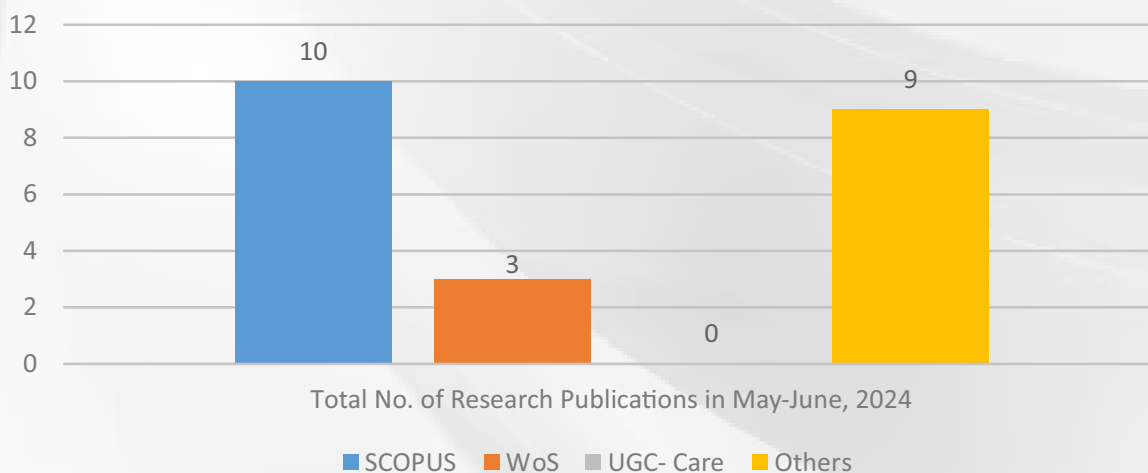
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SUMMARY (MAY-JUNE, 2024)

Sr. No.	Title	No.	
01	Research Papers	SCOPUS	10
		WoS	3
		UGC- Care	0
		Others	9
02	Patents	Utility	1
		Design	2
03	Books	6	
04	Awarded Ph.D. Thesis Abstract	21	

Total No. of Research Publications in May-June, 2024



MESSAGE FROM HON'BLE VICE CHANCELLOR



Dear Faculty Members and Research Scholars,

It is a great pleasure to announce the release of the third issue of our academic and research bulletin; a testament to the research contributions of our Ph.D. supervisors and research scholars.

This bulletin is a demonstration of the intellectual rigour, innovative thinking, and dedication that defines our University. I extend my heartfelt congratulations to all those who have successfully published their work in good quality journals, thereby advancing knowledge in their respective fields and reinforcing the research capabilities on the

global stage.

As we move forward, I urge all our researchers to continue striving for excellence by aligning their work with international standards and aiming for publication in high-impact journals. Such efforts are crucial not only for enhancing our standing but also for contributing meaningful solutions to the world's most pressing challenges. Your research has the power to influence policy, drive innovation, and improve lives, and it is imperative that we share these insights with the broader academic community and beyond.

Our collective achievements thus far are inspiring, and I have no doubt that, with your continued dedication, we will reach even greater heights. Let us remain steadfast in our pursuit of knowledge and innovation, and continue to support each other in these endeavours. You have the potential to make significant contributions to your fields and foster a vibrant research environment that benefits society as a whole.

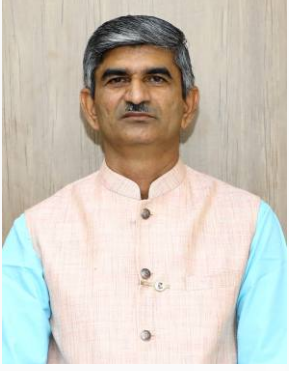
Congratulations once again to all whose work is highlighted in this bulletin, and the GTU R & D team for release of bulletin.

Best Wishes,

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



MESSAGE FROM REGISTRAR



Dear Faculty and Researchers,

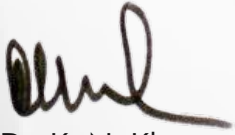
Namaskar!!

We must recognize the profound impact that research activities have in shaping a better society. Research is far more than an academic endeavour; it is a powerful instrument for societal change and progress. Through rigorous inquiry, innovative thinking, and collaborative effort, we can address the most pressing challenges in every field.

In this bulletin, we reaffirm our commitment to using research to make meaningful contributions. I extend my congratulations and acknowledgment to everyone for their impressive progress in advancing knowledge and promoting research. Your dedication to publishing in esteemed journals significantly enhances our impact and elevates our University's standing.

I appreciate your hard work and encourage you to continue publishing. Your research and related activities are essential in shaping our future. Together, our ongoing research efforts can significantly improve the quality of life through our collective efforts.

Best Wishes,



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

MESSAGE FROM DIRECTOR, RDC



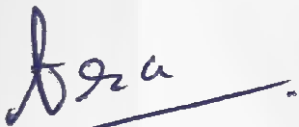
Dear Faculty and Researchers,

This is third successive issue of R & D Academic and Research Publications bulletin. It's a matter of pride that our research supervisors and research scholars are publishing their research contributions in reputed journals.

It's a good sign that few of the research scholars and research supervisors are applying for patents before publications. It is advised to all the research scholars and research supervisors to patent their work before publications if it has a potential for patenting for further commercialization.

The university has various schemes funded from the state/central government which provides the necessary financial support for patent filing. Research scholars and supervisors must take benefit of the same. University also regularly organizes patent awareness talks, seminars and workshops to support patent filing.

The R & D Cell of the university expresses sincere thanks and congratulate all the research scholars and supervisors for timely providing publication data for the bulletin. We are hopeful for the similar support for all the upcoming issues of the bulletin.



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

RESEARCH PAPERS

Research Papers (Engineering-Supervisors)

01

Name of Institute	Shri K. J. Polytechnic, Bharuch (645)
Title of Article	Techno-Economic unified OPF Modeling for Optimal Location Identification of VSC-HVDC Converter
Name of Authors	Sunilkumar P. Agrwal, Sundaram B. Pandya, Pradeep Jangir, Premkumar Manoharan, Laith Abualigah, Manish Kumar Singla, Kaznah Alshammari, Fathy A Syam
Name of Corresponding Author	Pradeep Jangir
Name of the Journal	Kexue Tongbao/Chinese Science Bulletin
Indexed	SCOPUS
ISSN No.	2095-9419
URL	https://www.kexuetongbao-csb.com/article/techno-economic-unified-opf-modeling-for-optimal-location-identification-of-vsc-hvdc-converter
Date of Publication	01-05-2024
SDG	Affordable and Clean Energy

02

Name of Institute	Graduate School of Engineering and Technology (137)
Title of Article	A compact artificial bee colony metaheuristic for global optimization problems
Name of Authors	Palvinder Singh Mann, Shailesh D. Panchal, Satvir Singh, Simran Kaur
Name of Corresponding Author	Palvinder Singh Mann
Name of the Journal	Expert Systems.
Indexed	SCOPUS
ISSN No.	1468-0394
URL	https://doi.org/10.1111/exsy.13621
Date of Publication	21-05-2024
SDG	Industry, Innovation and Infrastructure

03

Name of Institute	Shri K. J. Polytechnic, Bharuch (645)
Title of Article	Optimizing Power Grids with Wind and FACTS Devices using Multi-objective Exponential Distribution Optimizer for Enhanced System Performance
Name of Authors	Pradeep Jangir, Mohammad Aljaidi, Sundaram B. Pandya, Muteb Alshammari, Sunilkumar P. Agrawal, Anil Parmar, Laith Abualigah, Manish Kumar Singla
Name of Corresponding Author	Mohammad Aljaidi
Name of the Journal	Kexue Tongbao/Chinese Science Bulletin
Indexed	SCOPUS
ISSN No.	2095-9419
URL	https://www.kexuetongbao-csb.com/article/optimizing-power-grids-with-wind-and-facts-devices-using-multi-objective-exponential-distribution-optimizer-for-enhanced-system-performance
Date of Publication	01-06-2024
SDG	Industry, Innovation and Infrastructure

04

Name of Institute	Government Engineering College, Bhuj (015)
Title of Article	Implementing selective harmonic elimination in multilevel inverters with optimal dc source
Name of Authors	Piyush L. Kamani, Rajendra K. Patel, Mansukh K. Kathiria, Devang P. Majithiya, Jay H. Brahmkhatri
Name of Corresponding Author	Piyush L. Kamani
Name of the Journal	e-Prime - Advances in Electrical Engineering, Electronics and Energy
Indexed	SCOPUS
ISSN No.	2772-6711
URL	https://www.sciencedirect.com/science/article/pii/S277267112400202X
Date of Publication	07-06-2024
SDG	Affordable and Clean Energy

05

Name of Institute	Shri K. J. Polytechnic, Bharuch (645)
Title of Article	Many-Objective Artificial Hummingbird Algorithm: an effective many-objective algorithm for engineering design problems
Name of Authors	Kanak Kalita, Pradeep Jangir, Sundaram B. Pandya, Robert Cep, Laith Abualigah, Hazem Migdady, Mohammad Sh Daoud
Name of Corresponding Author	Kanak Kalita
Name of the Journal	Journal of Computational Design and Engineering
Indexed	WoS
ISSN No.	2288-5048
URL	https://academic.oup.com/jcde/article/11/4/16/7693734
Date of Publication	14-06-2024
SDG	Industry, Innovation and Infrastructure

06

Name of Institute	Government Polytechnic, Rajkot (620)
Title of Article	Effect of alloy 625 buffer layer on corrosion resistance of nickel base hardfacing
Name of Authors	Falgun V. Suthar, Hetalkumar N. Shah, Durbadal Mandal, Sujoy K. Chaudhury
Name of Corresponding Author	Hetalkumar N. Shah
Name of the Journal	Surface & Coatings Technology
Indexed	WoS
ISSN No.	1879-3347
URL	https://www.sciencedirect.com/science/article/abs/pii/S0257897224005243
Date of Publication	15-06-2024
SDG	Industry, Innovation and Infrastructure

07

Name of Institute	Shri K. J. Polytechnic, Bharuch (645)
Title of Article	Many-Objective ant lion optimizer (MaOALO): A new many-objective optimizer with its engineering applications
Name of Authors	Kanak Kalita, Sundaram B. Pandya, Robert Cep, Pradeep Jangir, Laith Abualigah
Name of Corresponding Author	Kanak Kalita
Name of the Journal	Heliyon
Indexed	WoS
ISSN No.	2405-8440
URL	https://www.cell.com/heliyon/fulltext/S2405-8440(24)08942-4
Date of Publication	16-06-2024
SDG	Industry, Innovation and Infrastructure

08

Name of Institute	Government Polytechnic, Ahmedabad (617)
Title of Article	Exploring the Versatile Applications and Optimization Challenges of Wiegand Energy Harvesters: A Review
Name of Authors	Janki Chotai, Dr. Manish Thakker, Dr. Shriji Vikrambhai Gandhi
Name of Corresponding Author	Janki Chotai
Name of the Journal	International Journal of Progressive Research in Science and Engineering
Indexed	Others
ISSN No.	2582-7898
URL	https://journal.ijprse.com/index.php/ijprse/article/view/1089
Date of Publication	01-06-2024
SDG	Affordable and Clean Energy, Climate Action

Research Papers (Pharmacy-Supervisors)

01

Name of Institute	Anand Pharmacy College, Anand (205)
Title of Article	Betulin protects against isoproterenol-induced myocardial injury by inhibiting NF-kB signaling and attenuating cardiac inflammation and oxidative stress in rats
Name of Authors	Shah Hital, Tejal Gandhi
Name of Corresponding Author	Dr. Tejal Gandhi
Name of the Journal	Asian Pacific Journal of Tropical Biomedicine
Indexed	SCOPUS
ISSN No.	2221-1691
URL	https://journals.lww.com/aptb/fulltext/2024/14060/betulin_protects_against_isoproterenol_induced.2.aspx
Date of Publication	28-06-2024
SDG	Good Health and Well-being

02

Name of Institute	Pioneer Pharmacy College (235)
Title of Article	Formulation and Evaluation of Herbal Bath-Bombs of Camellia Sinensis Powder
Name of Authors	Shaishvi. R. Patel, Neha. M. Vadiya, Afreen. A. Saiyad, Rashmi. A. Rajeghorpade, Dhananjay. B. Meshram
Name of Corresponding Author	Rashmi A. Rajeghorpade
Name of the Journal	Indo American Journal of Pharmaceutical Research
Indexed	Others
ISSN No.	2231-6876
URL	https://zenodo.org/records/11142804
Date of Publication	05-05-2024
SDG	Quality Education

03

Name of Institute	Smt. R. D. Gardi B. Pharmacy College, Nyara, Rajkot (263)
Title of Article	Formulation and Evaluation of Calendula and Lavender Oil Based Topical Antifungal Gel
Name of Authors	Archi D., Pooja K., Shital F.
Name of Corresponding Author	Pooja K.
Name of the Journal	Journal of Pharmaceutical Research International
Indexed	Others
ISSN No.	2231-2919
URL	http://archive.jibiology.com/id/eprint/2460/1/Pooja3672024JPRI118811.pdf
Date of Publication	17-06-2024
SDG	Good Health and Well-being

04

Name of Institute	Anand Pharmacy College, Anand (205)
Title of Article	Evaluation of Anti-Obesity Effect of Bromhexine using HFD Fed Rats
Name of Authors	Navdha Vyas, Sneha Bhimani, Dr. Tejal Gandhi
Name of Corresponding Author	Dr. Tejal Gandhi
Name of the Journal	International Journal of Pharmaceutical and Bio-Medical Science
Indexed	Others
ISSN No.	2767-827X
URL	https://ijpbms.com/index.php/ijpbms/article/view/559
Date of Publication	28-06-2024
SDG	Good Health and Well-being

Research Papers (Management-Supervisors)

01

Name of Institute	Som- Lalit Institute of Management Studies (778)
Title of Article	Beyond Standard Sizing: A 3D Revolution in Online Apparel Retail for Personalized and Precise Fit
Name of Authors	Dr. Rajeshwari Jain, Dr. Neha Patel, Dr. Gincy Jiju Mathew
Name of Corresponding Author	Dr. Rajeshwari Jain, Dr. Gincy Jiju Mathew
Name of the Journal	Educational Administration: Theory and Practice
Indexed	SCOPUS
ISSN No.	2148-2403
URL	https://kuey.net/index.php/kuey/article/view/3221
Date of Publication	07-05-2024
SDG	Industry, Innovation and Infrastructure

02

Name of Institute	Shri Chimanbhai Patel Institute of Management & Research, Ahmedabad (768)
Title of Article	An Empirical Investigation into the Influence of Selected War Events On Herd Mentality and its Implications for Market Volatility in The National Stock Exchange of India (NSE)
Name of Authors	Dr. Urvi Amin, Dr. Swati Saxena, Dr. Shivanisinh Parmar
Name of Corresponding Author	Dr. Urvi Amin
Name of the Journal	Educational Administration: Theory and Practice
Indexed	SCOPUS
ISSN No.	2148-2403
URL	https://kuey.net/index.php/kuey/article/view/5321/3717
Date of Publication	30-06-2024
SDG	Decent Work and Economic Growth

03

Name of Institute	Birla Vishvakarma Mahavidyalay Engineering College (007)
Title of Article	Development of an Accurate Demand Forecasting Model and Production Planning Strategies to Ensure Optimal Resource Utilization
Name of Authors	Kamlesh D. Bhatt, Harsh Bhowmick Patel
Name of Corresponding Author	Harsh Bhowmick Patel
Name of the Journal	Journal of Emerging Technologies and Innovation Research (JETIR)
Indexed	Other
ISSN No.	2349-5162
URL	http://www.jetir.org/view?paper=JETIR2406055
Date of Publication	06-05-2024
SDG	Industry, Innovation and Infrastructure, Responsible Consumption and Production

Research Papers (Engineering-Scholars)

01

Enrollment No	189999913044
Title of Article	A Modified Binary Grey Wolf Optimization for Feature Selection Using Elite Wolf in Unstructured Data Stream
Name of Authors	Suman R. Tiwari , Kaushik K. Rana , Viral H. Borisagar
Name of Corresponding Author	Suman R. Tiwari
Name of the Journal	International Journal of Intelligent Systems and Applications in Engineering
Indexed	SCOPUS
ISSN No.	2147-6799
URL	https://ijisae.org/index.php/IJISAE/article/view/6147
Date of Publication	06-05-2024
SDG	Good Health and Well-being

02

Enrollment No	189999913041
Title of Article	An Integrated Recommender System for Automated Playlist Expansion
Name of Authors	Shaktikumar V. Patel, H. B. Jethva, Dipak C. Patel
Name of Corresponding Author	Shaktikumar V. Patel
Name of the Journal	International Journal of Intelligent Systems and Applications in Engineering
Indexed	SCOPUS
ISSN No.	2147-6799
URL	https://ijisae.org/index.php/IJISAE/article/view/5937
Date of Publication	07-05-2024
SDG	Industry, Innovation and Infrastructure

03

Enrollment No	209999919047
Title of Article	Evaluation of critical success factors for successful implementation of Lean Six Sigma in Small and Medium Enterprises (SMEs) in India
Name of Authors	Mandar Sumant, JitendraMistry, Pallavi Agrawal
Name of Corresponding Author	Mandar Sumant
Name of the Journal	Australian Journal of Mechanical Engineering
Indexed	SCOPUS
ISSN No.	1448-4846
URL	https://doi.org/10.1080/14484846.2024.2332014
Date of Publication	27-06-2024
SDG	Decent Work and Economic Growth, Industry, Innovation and Infrastructure

04

Enrollment No	239999912010
Title of Article	Review on studies on Brick as a Advance Construction Material using Alternative Materials
Name of Authors	Gamit Payalkumari Ganeshbhai, Chaudhari Grishmakumari, Patel Priyank Hiteshbhai, Gamit Akanshakumari Yohanbhai, Vasava Kalpanaben Fuljibhai, Mr. Hilaykumar N. Prajapati, Mr. Nirav P. Desai
Name of Corresponding Author	Patel Priyank Hiteshbhai
Name of the Journal	International Journal of Trend in Scientific Research and Development (IJTSRD)
Indexed	Others
ISSN No.	2456-6470
URL	https://www.ijtsrd.com/papers/ijtsrd64815.pdf
Date of Publication	08-05-2024
SDG	Industry, Innovation and Infrastructure, Sustainable Cities and Communities

05

Enrollment No	229999911008
Title of Article	Exploring graphene and its derivatives for various applications: photocatalysis
Name of Authors	Palak A. Trivedi, Jitendra B. Naik, Pritam B. Patil
Name of Corresponding Author	Pritam B. Patil
Name of the Journal	Chemical Papers
Indexed	Others
ISSN No.	1336-9075
URL	https://link.springer.com/article/10.1007/s11696-024-03475-6
Date of Publication	08-05-2024
SDG	Affordable and Clean Energy

06

Enrollment No	239999912010
Title of Article	A Review on the Study of the Mix Cement Properties of Cement Mortar Used in the Plaster from Different Waste Materials
Name of Authors	Palalkkumari Kantilal Gamit, Konkani Khushbuben Kalidasbhai, Mr. Patel Priyank Hiteshbhai , Patel Riyanka Kumari Vijaybhai, Gamit Khushbukumari Pravinbhai , Mr. Guaravkumar P. Barot
Name of Corresponding Author	Patel Priyank Hiteshbhai
Name of the Journal	International Journal of Trends in Scientific Research and Development (IJTSRD)
Indexed	Others
ISSN No.	2456-6470
URL	https://www.ijtsrd.com/papers/ijtsrd64833.pdf
Date of Publication	13-05-2024
SDG	Industry, Innovation and Infrastructure, Sustainable Cities and Communities, Climate Action

Research Papers (Management-Scholars)

01

Enrollment No	209999903041
Title of Article	A Study on Net Banking and Mobile Banking
Name of Authors	Dr. Vijay Pithdia, Ms.Priyanka Mehta
Name of Corresponding Author	Dr. Vijay Pithdia
Name of the Journal	International Journal of Research and Analytical Reviews
Indexed	Others
ISSN No.	2348-1269
URL	http://ijrar.org/viewfull.php?&p_id=IJRAR24B4264
Date of Publication	19-06-2024
SDG	Industry, Innovation and Infrastructure

PATENTS

Patents (Supervisors & Scholars)

01

Name of Institute	Government Polytechnic, Ahmedabad (617)
Types of Patent	Design
Title of Patent	Object Disinfectant Device
Name of Inventors	Government Polytechnic, Ahmedabad, Gor Rudraksh Mitulkumar, Shriji Gandhi, M S Prajapati
Name of Applicant	Dr. Shriji Vikrambhai Gandhi
Patent No.	410096-001
Status of Patent	Granted
Country of Filing	India
Date of Publication	16-05-2024
SDG	Clean Water and Sanitation, Industry, Innovation and Infrastructure

02

Enrollment No.	239999913009
Types of Patent	Utility
Title of Patent	Analysis and Detection of Fake and Counterfeit Currency with Machine Learning and Deep Learning Model
Name of Inventors	Dr. Shiva Johri, Dr. Srikanth V, Dr. S. Perumal, Dr. Nandini G Devarmani, Prabhakaran.V, Dhruvi Pankajkumar Suthar, Namrata Harshadbhai Gohel, Prof. Archana Jethava, Prof. Yesha Patel, Dr. Dushyantsinh B. Rathod
Name of Applicant	Dr. Shiva Johri
Patent No.	202421027957
Status of Patent	Published
Country of Filing	India
Date of Publication	03-05-2024
SDG	Industry, Innovation and Infrastructure

03

Enrollment No.	239999911003
Types of Patent	Design
Title of Patent	Compost Machine
Name of Inventors	Dr. Latesh Brijlal Chaudhari, Dr. Himanshu Pradeep Kohli, Dr. Julie Minoo Pardiwala, Ravikumar Mulchandbhai Sen, Jigish Sandeepbhai Chopda, Darshankumar Devubhai Vaghani
Name of Applicant	Ravikumar Mulchandbhai Sen
Patent No.	378891-001
Status of Patent	Published
Country of Filing	India
Date of Publication	08-05-2024
SDG	Affordable and Clean Energy, Sustainable Cities and Communities, Climate Action

BOOKS

Books (Engineering & Pharmacy)

01

Name of Institute	Graduate School of Engineering and Technology (137)
Title of Book/Chapter	Empowering the Future of Smart Grids: Unveiling the Role of Electric Vehicles in V2G Integration for Sustainable Infrastructure
Name of Authors	Aanal Sanjivbhai Raval, Arpita Pareshkumar Maheriya, Shailesh Panchal, Komal Borisagar
ISBN No.	979-8-369-32611-4
URL	https://www.igi-global.com/chapter/empowering-the-future-of-smart-grids/341169
Date of Publication	01-05-2024
SDG	Good Health and Well-being, Affordable and Clean Energy, Decent Work and Economic Growth, Industry, Innovation and Infrastructure, Sustainable Cities and Communities

02

Name of Institute	Lukhdhirji Engineering College, Morbi (031)
Title of Book/Chapter	Futuristic Trends in Renewable & Sustainable Energy
Name of Authors	Dr. Vikas Sharma, Mr. S K B Pradeepkumar Ch, Dr Shraddha Upadhyay, Mrs. Priyanka N, Dr. Subramanya Sarma S, Dr. Prathiviraj R, Dr. Pankaj Sahu, Mrs. Anchal Srivastava, Dr. CH.Naga Sai Kalyan, Dr. Gaurav Gangwar, Dr. Mellah Hacene, Mrs. Richa Aggarwal, Dr. Lenna Gaurav Kulkarni, Dr. Mohamed Mankour, Dr. Seema Maheshwari, Mrs. Anto, Dr. R. Arunadevi, Dr. Soumya Jyoti Ray, Dr. S.Nagarajan, Mr. Ramesh Babu Aremanda, Dr. Dr.Mohan P. Thakre, Dr Ashish Baldania, Mr. Arun Kumar Maurya, Ms. Ria Majumdar, Dr. Adel Mohamed, Mr. Gopal Dandime, Dr. Sadananda Chingangbam, Mr. Manoj Saha, Dr. Diana K J, Dr. Ganesh Vijay More, Dr. Palanisamy.R, Ms. Hema Tamilselvan, Dr. Mukul Bajpai, Dr. Umangkumar Pandya, Dr. Ranadip Roy, Mr. Chintan Patel
ISBN No.	978-93-6252-602-1
URL	https://www.iipseries.org/view-pub-book.php?bookid=277&bookname=futuristic-trends-in-renewable-amp-sustainable-energy-volume-3-book-4
Date of Publication	04-05-2024
SDG	Affordable and Clean Energy

03

Name of Institute	C. K. Pithawala College of Engineering and Technology, Surat (009)
Title of Book/Chapter	Electric Vehicles Charging using renewable distributed generation
Name of Authors	Chetan K. Lad, Deepak C. Bhonsle
ISBN No.	978-0-443-21491-2
URL	https://doi.org/10.1016/B978-0-443-21491-2.00006-3
Date of Publication	23-05-2024
SDG	Affordable and Clean Energy, Industry, Innovation and Infrastructure, Sustainable Cities and Communities

04

Name of Institute	C. K. Pithawala College of Engineering & Technology, Surat (009)
Title of Book/Chapter	Custom power device designing and modeling
Name of Authors	Deepak Chhaganrao Bhonsle, Chetan Khushalbhai Lad
ISBN No.	978-0-443-21491-2
URL	https://doi.org/10.1016/B978-0-443-21491-2.00001-4
Date of Publication	23-05-2024
SDG	Industry , Innovation and Infrastructure, Responsible Consumption and Production

05

Name of Institute	Government Engineering College, Bharuch (014)
Title of Book/Chapter	Custom Power Devices for Efficient Distributed Energy Systems
Name of Authors	Ahmed Al-Durra, Sabha Raj Arya, Ashutosh K Giri
ISBN No.	9780443214912
URL	https://shop.elsevier.com/books/custom-power-devices-for-efficient-distributed-energy-systems/al-durra/978-0-443-21491-2
Date of Publication	23-05-2024
SDG	Affordable and Clean Energy

06

Name of Institute	Graduate School of Engineering and Technology (137)
Title of Book/Chapter	Blockchain Technology Framework: Issues and Future Challenges
Name of Authors	Shital Sharma and Palvinder Singh Mann
ISBN No.	9781032604701
URL	https://www.routledge.com/Computational-Intelligence-and-Blockchain-in-Biomedical-and-Health-Informatics/Bhambri-Rani-Fahim/p/book/9781032604701
Date of Publication	19-06-2024
SDG	Industry, Innovation and Infrastructure

AWARDED PHD THESIS ABSTRACTS

Ph.D. Thesis Abstract (Engineering)

01

Name	Chintankumar Rasikbhai Patel
Enrollment No	179999914010
Title of Thesis	Investigation of Surface Degradation in Silicon Rubber Insulators under Various Stresses
Faculty/Discipline	Electrical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(17)_218168.pdf

02

Name	Suhasbhai Haribhai Patel
Enrollment No	189999915029
Title of Thesis	Automatic Object and Event Detection in Field Hockey Videos Using Deep Learning Techniques
Faculty/Discipline	Electronics & Communication Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(13)_849019.pdf

03

Name	Hiteshkumar Dahyabhai Panchal
Enrollment No	159997111003
Title of Thesis	Passive Video Forgery Detection
Faculty/Discipline	Electronics & Communication Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(7)_193108.pdf

04

Name	Kathiriya Bhaveshkumar Babubhai
Enrollment No	189999915013
Title of Thesis	Optimization of Spectrum Sensing in Multi-hop Cognitive Radio Network
Faculty/Discipline	Electronics & Communication Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(19)_240689.pdf

05

Name	Rajput Sandeepkumar Jawaharlal
Enrollment No	139997111010
Title of Thesis	Electronics & Communication Engineering
Faculty/Discipline	Performance evaluation of FSO system under various climatic conditions; experimental setup and mitigation technique
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(26)_824568.pdf

06

Name	Krunalkumar Pravinkumar Modi
Enrollment No	149997119013
Title of Thesis	Experimental Investigations of Process Parameters for Material Removal Rate and Surface Roughness in Magnetic Abrasive Finishing of Hot Die Steel (Hd-13) and En-31 Steel
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(9)_629527.pdf

07

Name	Parekh Pratikkumar Ramanlal
Enrollment No	189999919035
Title of Thesis	Optimisation of Cutting Parameter during Milling of CFRP by Varying Geometry of Solid Carbide Endmill with Nano Coating.
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(14)_618793.pdf

08

Name	Patel Mehulkumar Nandlal
Enrollment No	189999919028
Title of Thesis	Empirical Investigation of Issues for Implementation of Circular Economy In Indian Manufacturing Organizations.
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(12)_827308.pdf

09

Name	Pambhar Ankitkumar Chhaganlal
Enrollment No	179999919030
Title of Thesis	Experimental Investigations on Formability Aspects of Aluminium-Copper Bimetallic Composite Material Using Single Point Incremental Forming Process
Faculty/Discipline	Mechanical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(20)_948529.pdf

10

Name	Ladha Akhilesh Yatiraj
Enrollment No	169999913009
Title of Thesis	Demand based dynamic routing protocol for public transport system
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(16)_188024.pdf

11

Name	Mr. Prashant Sureshbhai Modi
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Title of Thesis	Appearance Features Based Hybrid Method for Robust Face Recognition
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(6)_724140.pdf

12

Name	Vala Jaykumar Manharbhai
Enrollment No	189999913050
Title of Thesis	Multimodal Emotion Recognition Using Deep Learning Networks Based Fusion Techniques
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(5)_326677.pdf

13

Name	Modi Harshadkumar Shankarlal
Enrollment No	189999913021
Title of Thesis	Multi Label Anomaly Detection for Crowd Scenes using Deep Learning
Faculty/Discipline	Computer/IT Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(25)_209408.pdf

14

Name	Parmar Bhaveshkumar Harishbhai
Enrollment No	189999918006
Title of Thesis	Automated Brain Tumor Segmentation and Survival Prediction using Multimodal MRI
Faculty/Discipline	Biomedical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(4)_332473.pdf

15

Name	Deep Shaileshkumar Upadhyaya
Enrollment No	189999912009
Title of Thesis	Investigation on the Adequacy of Health and Safety Management in Indian Construction Sector
Faculty/Discipline	Civil Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(21)_132973.pdf

16

Name	Vimleshkumar Vishnuprasad Agrawal
Enrollment No	179999912019
Title of Thesis	Evaluation of Dynamic Parameters of Elevated Water Tank Considering Soil-Structure Interaction
Faculty/Discipline	Civil Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(1)_440326.pdf

17

Name	Parth Satishbhai Shah
Enrollment No	179999911007
Title of Thesis	Study of Vapor Liquid Equilibria for Green Solvent
Faculty/Discipline	Chemical Engineering
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(23)_755726.pdf

Ph.D. Thesis Abstract (Management)

01

Name	Dhaval S. Hariyani
Enrollment No	169999903003
Title of Thesis	A Study on Competency Management Practices for Executives in Large & Medium Scale Textile Units of South Gujarat Region
Faculty/Discipline	Management
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(22)_118968.pdf

Ph.D. Thesis Abstract (Pharmacy)

01

Name	Shitalben Ramanlal Shah
Enrollment No	189999901016
Title of Thesis	Development and Evaluation of modified release oral iron formulations
Faculty/Discipline	Pharmacy
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(18)_390584.pdf

02

Name	Sonam Mishra
Enrollment No	179999901009
Title of Thesis	Investigation into the Effects of Alstonia Scholaris in Experimental Models of Diabetes
Faculty/Discipline	Pharmacy
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculares/uploads/Abstract%20(10)_580776.pdf

Ph.D. Thesis Abstract (Science-Physics)

01

Name	Singh Rajkumar H.
Enrollment No	199999907506
Title of Thesis	Study on Gel based electrolytes for Metal Sulfur Batteries
Faculty/Discipline	Science- Physics
Abstract	https://s3-ap-southeast-1.amazonaws.com/gtusitecirculars/uploads/Abstract%20(11)_463314.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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