



BIRLA VISHVAKARMA MAHAVIDYALAYA

(An Autonomous Institution)

NAAC Accredited: 'A' Grade

Managed by Charutar Vidya Mandal



R & D CELL REPORT

2021-25





BIRLA VISHVAKARMA MAHAVIDYALAYA

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Message from Chairman



Birla Vishvakarma Mahavidyalaya (An Autonomous Institution), NAAC Accredited with 'A' Grade and managed by Charutar Vidya Mandal, has consistently pursued the highest standards of quality since its inception. The institute has implemented robust systems and proactive initiatives to foster continuous improvement in research excellence among its faculty members.

Research activities at the institute are strengthened by well-established practices that promote and sustain a vibrant research culture. The institute actively engages in collaborations and partnerships with renowned national and international institutions to broaden research opportunities. Our continuous efforts aim to elevate local research to a global standard and transform it into impactful, real-world outcomes.

Recognizing the crucial role of academic research in national development, the institute underscores the importance of addressing societal challenges through impactful research. Greater emphasis is now placed on publishing in reputed journals, securing patents, undertaking funded research projects, and strengthening Ph.D. programmes to drive meaningful contributions to society.

As we reflect on the institute's progress through the R & D Cell Report 2021–2025, I extend my sincere appreciation to our dedicated and diligent researchers whose efforts have made this achievement possible. We remain committed to advancing our journey with the unwavering goal of serving humanity at large.

- Er. Bhikhubhai B. Patel
Chairman
Charutar Vidya Mandal
Vallabh Vidyanagar



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Message from Principal



It gives me immense pride to witness the dynamic growth and achievements of the Research and Development Cell at Birla Vishvakarma Mahavidyalaya (An Autonomous Institution) NAAC Accredited: 'A' Grade Managed by Charutar Vidya Mandal. As an institution committed to academic excellence and innovation, we recognize research as the cornerstone of technological advancement and societal progress.

Over the past four years (2021–2025), our faculty and students have demonstrated commendable dedication and intellectual curiosity, contributing significantly through funded projects, scholarly publications, patents, and collaborative engagements. The increasing support from government and non-government funding agencies highlights our institution's growing research capabilities and credibility.

The R&D Cell has played a pivotal role in nurturing a vibrant research ecosystem by promoting interdisciplinary collaborations, encouraging innovative ideas, and guiding students and faculty toward impactful outcomes. I appreciate the efforts of the Dean, Convener, and all members of the R&D committee who have diligently coordinated these activities, strengthening our academic and industrial linkages.

As we continue our journey toward becoming a research-intensive institute, I urge all stakeholders to embrace the spirit of inquiry, integrity, and innovation. Let us collectively strive to address global and local challenges through sustainable, inclusive, and transformative research.

With best wishes for continued success.

Prof. (Dr.) Indrajit N. Patel
Principal
Birla Vishvakarma Mahavidyalaya



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Acknowledgement

This research report represents a dedicated effort by the Research & Development Cell of Birla Vishvakarma Mahavidyalaya (Engineering College) [An Autonomous Institution], under the aegis of Charutar Vidya Mandal, Vallabh Vidyanagar. It presents a concise overview of R&D activities carried out between June 1, 2021, and May 31, 2025.

We extend our heartfelt gratitude to Er. Bhikhubhai Patel, Chairman of the Board of Governance, and the esteemed members of the BOG at Birla Vishvakarma Mahavidyalaya for their steadfast support in promoting academic excellence and innovation.

Research continues to be a priority area both nationally and globally. Aligned with this vision, BVM has established robust policies and guidelines to foster a thriving research culture among faculty members. These initiatives include financial support for Ph.D. programs, seed funding for research projects, reimbursement of testing and publication charges in high-indexed journals, and assistance with patent registration and publication. Additionally, support is extended for presenting research papers at national and international conferences across India and abroad, with funding under the TEQIP II and TEQIP III projects by the National Project Implementation Unit (NPIU). Many faculty members have contributed significantly by publishing books, articles, and research papers, and by participating in conferences at various levels—international, national, and state.

The Institute also houses a Student Start-up and Innovation Policy (SSIP) Centre supported by the Government of Gujarat. Under this initiative, individuals or groups with innovative ideas are eligible for grants. To further enhance our research capabilities, BVM has established eight Centres of Excellence and state-of-the-art laboratories to promote advanced R&D activities. These initiatives align with the goals of the National Education Policy (NEP) 2020, fostering multidisciplinary, transdisciplinary, and translational research.

To strengthen research-industry collaboration, BVM has signed Memorandums of Understanding (MoUs) with approximately 80 industries and 8 international universities.

We extend our heartfelt appreciation to the entire R&D Committee and NAAC Criteria 3 representatives from all departments of BVM for their invaluable contributions and ongoing support.

We are deeply grateful to IQAC-BVM, CVM University, Gujarat Technological University (GTU), and our funding partners—TEQIP, GUJCOST, AICTE, and DST—for their trust and financial support toward research endeavors.

Special thanks to our Principal, Prof. (Dr.) Indrajit Patel, for his continuous motivation and insightful guidance throughout the development of this report.

We also acknowledge the significant support from our former Heads of Departments: Dr. A. K. Verma, Dr. L. B. Zala, Dr. P. M. George, Dr. T. A. Desai, and Prof. A. N. Desai.

Our sincere appreciation goes to the editorial team and the NAAC Criteria 3 committee members for their valuable suggestions that enhanced the quality of this report. We particularly thank Dr. Nilesh Sonara for his assistance in the creative design of the report.

Finally, we extend our gratitude to all faculty members whose dedication and contributions have helped us achieve new milestones on this journey of research and innovation.

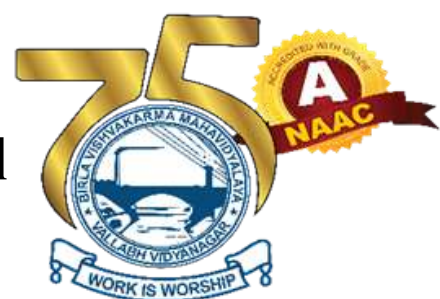


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R & D Activities

About R & D Cell

Aim

Research is one of the key areas where the impetus is given nationally and internationally. It has plans to cultivate academic and research collaborations with national and international universities, government agencies and industries to meet needs of society and the industry.

R & D Cell:

The R & D cell comprises of faculty members from various departments in the Institution. This committee observes the smooth and efficient co-ordination of research and development activities in the Institution for overall growth.

A senior faculty heads this cell in the capacity of Dean, R & D, with the Convener and Co-convener to provide advisory support along with members: Single point of contact (SPOC) from every department. Each department has the department representative for R&D activity who monitor the R&D activities of the department.

Functions of the R & D Cell:

The cell encourages students and faculty members of the college to carry out sponsored R & D projects, AICTE-MODROB projects and submit articles to peer-reviewed journals and conferences.

The R&D cell helps to establish linkages with industry and premier research organizations by signing MoU.

Testing and consultancy activities are also promoted by the R&D cell. The research& innovation by students and faculty mentors can be extended to patent and product development with the help of Government funding for incubation under Student Starting & Innovation Policy (SSIP2017). The SSIP cell has nomination of faculty members and students from all departments.

Meet Our Committee



Dr Mukesh Shimpi
Associate Dean R & D
Convener



Dr Darshana Bhatt
Associate Dean R & D
Co-Convener



Dr S. D. Dhiman



Dr Narendra Patel



Dr. Haresh Patolia



Dr. Mehfuza S. Holia



Dr.Hitesh Bhargav



Dr. Hardik S Beravala



Dr.Darshan Dalwadi



Dr. Zankhana H. Shah



Dr Akshay Pandya



Dr. Vishal A. Arekar

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Dr. Vimlesh V. Agrawal

Dr. Hasmukh J. Chauhan

Dr. Jayantilal P Hadiya

Dr. Yogesh R. Prajapati

Dr Mahasweta Jayantbhai Joshi

Prof. Chetan J Jaiswal

Prof. Chintan S Patel

Prof. Kinjal A Patel

Prof. Jatin R Makwana

Prof. Akil H Jaria

Prof. Pratiti M Bhatt

Prof. Bijal N Dalwadi

Prof. Mrunali Vasava

Prof. (Dr.) B. C. Goradiya, Nodal Officer, SSIP

Dr Ronak Vashi, Coordinator, SSIP

Grants received from Agencies

June 2021 to May 2022

Name of the Principal Investigator/ Co-Investigator (if applicable)	Department of the Principal Investigator/ Co-Investigator	Name of the Funding Agency	Type (Government/Non-Government)	Funds provided (INR in lakhs)
Dr. Hasmukh J. Chauhan	Civil Engineering	AICTE	Government	16.86
Dr. D M Patel , Dr. V J Patel	Institute Level (TRS)	GUJCOST	Government	6.5
Prof. A M Thakkar, Dr. V J Patel	Institute Level (TRS)	GUJCOST	Government	6.5
Dr. Rajiv Gandhi, Dr. V J Patel	Institute Level (TRS)	GUJCOST	Government	6.5
Dr. Mehfuza Holia, Dr. V J Patel	Institute Level (TRS)	GUJCOST	Government	6.5
Dr. Hareesh Patoliya, Dr. V J Patel	Institute Level (TRS)	GUJCOST	Government	7.5
Dr. Vatsal Shah, Prof. Bijal Dalwadi	Information Technology	AICTE ATAL	Government	0.93
Dr. Vatsal Shah, Prof. Bijal Dalwadi	Information Technology	AICTE SPICES	Government	1
Dr. Keyur Brahmbhatt, Dr. Vatsal Shah	Information Technology	MODROB	Government	4.23
Dr. Hitesh Bhargav	Mechanical Engineering	AICTE	Government	11.02
Dr R P Mehta	Electrical Engineering	MODROB	Government	14
Dr J R Pitroda	Civil Engineering	GUJCOST	Government	0.4
Dr. Snehal Mevada	Structural	MODROB	Government	14.2
Jagruti Shah	Structural	ATAL	Government	0.93
Jagruti Shah	Structural	AICTE	Government	3.28

Grants received from Agencies

June 2022 to May 2023

Name of the Principal Investigator/ Co-Investigator (if applicable)	Department of the Principal Investigator/ Co-Investigator	Name of the Funding Agency	Type (Government/Non-Government)	Funds provided (INR in lakhs)
Dr. Dipak M. Patel	Electronics Engg.	GUJCOST	Government	5
Prof. Ashish M. Thakkar	Mechanical Engg.	GUJCOST	Government	5
Dr. Rajiv B. Gandhi	Mathematics	GUJCOST	Government	5
Dr. Mehfuza S. Holia	Electronics Engg.	GUJCOST	Government	5
Prof. (Dr.) Haresh P. Patolia	Mechanical Engg.	GUJCOST	Government	5
Dr. H.J. Chauhan	Civil Engineering	AICTE-RPS	Government	16.86

Grants received from Agencies

June 2023 to May 2024

Name of the Principal Investigator/ Co-Investigator (if applicable)	Department of the Principal Investigator/ Co-Investigator	Name of the Funding Agency	Type (Government/Non-Government)	Funds provided (INR in lakhs)
Dr. H.J. Chauhan	Civil Engineering	AICTE-RPS	Government	16.86
Dr. Dipak M. Patel	Electronics Engg.	GUJCOST	Government	2
Dr. Mehfuza S. Holia	Electronics Engg.	GUJCOST	Government	1
Dr. M. M. Solanki	Electronics Engg.	GUJCOST	Government	2
Dr. Dipak M. Patel	Electronics Engg.	GUJCOST	Government	5
Dr. Mehfuza S. Holia	Electronics Engg.	GUJCOST	Government	2.5

List of Patents

June 2021 to May 2025

Sr. No	Name of faculty	Title of Patent	Date
1	Prof. Vishal Polara	Artificial Intelligence based battery management system for electrical vehicles to forecast state of charge.	22 Jan 2021
2	Prof. Vishal Polara	Deep Learning Based Animal Tracking System Using Voice Vocalization	2 Dec 2021
3	Dr.Keyur Brahmbhatt	Influence of RFID Technology On Automated Management Of Construction Materials	26 Feb 2021
4	Ankur Varma, Jay Suthar, Dr. Mehfuza S. Holia, Dr. M M Solanki	Smart Device Operated And Controlled Electronic Virtual Switch	27 Feb 2021
5	Dr. Vatsal Shah	PRAMS for Scheduling in Real Time	7 Feb 2021
6	Dr J M Rathod	A Novel Automated Security Model For Covid-19	7 Sept 2021
7	Dr J M Rathod	IoT Based Solar Assisted Inexpensive Ceramic Based Water Purification For Natural Rain Water Harvesting	7 Sept 2021
8	Dr.K.D.Patel, Dr.Keyur Brahmbhatt	Photovoltaic Water Purging System	1 Feb 2021
9	Prashant Dilipbhai Sachaniya,Dr.J M Rathod	Novel Design Of Corrugated Horn Antenna For Satellite Applications	2 Dec 2021
10	Kenil Naik , Dhaval V Kambaliya , Rahul Hadiya, Dr.J M Rathod, Dr. M S. Holia	The Low Cost Novel CoronaVirus Detection And Screening Machine	19 Feb 2021
11	Dr J M Rathod	Senior Member Grade Elevation Notification	25 Feb 2021
12	Dhanesh Hareshbhai Poriya, Dr Jayesh Pitroda , Dr. J M Rathod	Developing Web-App System For Effective Documentation In Project Management	26 Feb 2021
13	Dr Jayesh Pitroda, Dr. J M Rathod, Dr. Keyur N. Brahmbhatt	Influence Of RFID Technology On Automated Management Of Construction Materials	26 Feb 2021
14	Dhaval V Kambaliya, Dr. J. M Rathod, Mansi S Patel, Stutee P Dave	Digital Electroencephalogram Diagnostic System For Epileptic Seizures	3 Dec 2021
15	Dr J M Rathod	Rectangular Patch Antenna With Tree Fractal Structure	27 Dec 2021
16	Jay Prajapati	Quadruped Robot Project Id - Bvm/ SSIP /2019-2020/Ipr-10	1 Jul 2022
17	Darshit Darji	Robot Project Id - Bvm/SSIP/2019- 2020/Ipr-11	1 Jul 2022
18	Darshit Darji	An Apparatus For Self-Instillation Of Eye Drops Project Id - BVM/SSIP/2019-2020/IPR-12 (patent Published on 26/06/23)	1 Jul 2022
19	Darshit Darji	An Apparatus For Self-Instillation Of Eye Drops	1 Jul 2022

List of Patents

June 2021 to May 2025

Sr. No	Name of faculty	Title of Patent	Date
20	Shrey Mayank	Concrete Composition Project Id - BVM/SSIP/2019- 2020/IPR-14	1 Jul 2022
21	Jay Goswami	Smart Prosthetic Upper Limb Project Id - Bvm/ SSIP /2019- 2020/Ipr-3	1 Sept 2022
22	Heramb Dahivalkar	IR Based Hexagonal Multi-Layered Micro Robot Project Id - BVM/SSIP/2019- 2020/IPR-5	1 Sept 2022
23	Amaan Shaikh	Pipe Climbing Robot Project Id - Bvm/ SSIP /2019-2020/Ipr-6	1 Sept 2022
24	Darshit Darji	Swappable Battery Unit For Underwater Vehicles	1 Sept 2022
25	Harshil Rana, Tarun Viradiya, Anita Bhatt	Smart Energy System And Method	21 Jan 2022
26	Darshit Darji	Eye Drops Instilling Robot Project Id - Bvm/SSIP/2019- 2020/Ipr-8	1 Oct 2022
27	Rakeshkumar S Barot, Jigar R Patel	An IoT enabled smart foundry molding sand moisture Measurement & control system	21 Apr 2022
28	Rakeshkumar S Barot,Dr. Vinay J Patel	An IoT Enabled Wire Feed and Welding Speed Measurement System”	22 Apr 2022
29	Rakeshkumar S Barot, Dr. Vinay J Patel	An IoT enabled wire feed measurement using rotary encoder”	25 Apr 2022
30	Dr Vatsal Shah, Abhishek Shah, Jay B Patel, Ghanshyam Savaliya, Aseem Thakkar	VRDRIVE: A driving simulation for RTO (Regional Transport Office)	6 Oct 2022
31	Prof. Vishal Polara	Smart blind stick using IOT	29 Jul 2022
32	Jaydeep Chavda, Dr. I N Patel	Depolluting concrete composition	11 Jun 2023
33	Jaydeep Chavda, Dr. I N Patel	Sprayable Depolluting Coating For Concrete Surfaces	11 Jun 2023
34	Jaydeep Chavda, Dr. I N Patel	Sprayable Photocatalytic Coating For Concrete Surfaces	12 May 2023
35	Jaydeep Chavda, Dr. I N Patel	Sprayable Zeolite Based Coating For Concrete Surfaces	12 May 2023
36	Vinay J. Patel ,Heet Vashi, Suraj Verma, Kushal Vaghasiya, Poojan Mehta, Tanay Patel ,Swayam Jathar , Aniket Dey	Maneuverable Vessel Body Cleaning Robot	8 Sept 2024

List of Patents

June 2021 to May 2025

Sr. No	Name of faculty	Title of Patent	Date
37	Mr. Vishal Polara, Prof. (Dr.) Jagdish M. Rathod, Mr. Devang Rathod	Cost Optimization System for Mobile Ad-Hoc Network (MANET) using Particle Swarm Optimization (PSO)	8 Sept 2024
38	Soni Harsh Parmanand Bhai, Dr. Hitesh Bhargav, Prof. Chintan Mazmudar	Planetary Gear Axial Compressor (Design Patent)	29 Jan 2025
39	Dr. Patel Vinaykumar Jashbhai, Prof. Jayeshbhai Rasiklal Koisha , Himanshu Malani, Dhruvil Parmar, Govind Chaudhary , Jigar Kumar, Dhruvil Usdad	Six Wheeled Rover Robot (Design Patent)	29 Jan 2025
40	Smit Tamboli , Yuvrajsinh Sur, Divyarajsinh Rana , Divyeshkumar Kamaliya , Donal Dangariya , Dr. Aakar Roghelia	Six Wheeled Rover (Design Patent)	30 Jan 2025
41	Vashishtha Trivedi, Darshan Dalwadi, Ronak Vashi	Smart Water Temperature controlling System	17 Feb 2025
42	Dr. Patel Vinaykumar Jashbhai, Prof. Jayeshbhai Rasiklal Koisha, Himanshu Malani, Dhruvil Parmar, Govind Chaudhary , Jigar Kumar, Dhruvil Usdad	Six Wheeled Rover Robot	21 Feb 2025
43	Prof. (Dr) Vinay J. Patel , Prof. Vijaypratap R. Singh, Paavan H. Shah , Jenish Pansheriya , Rohit Gupta , Dhruv Shah, Deep Maheshwari	Eight Wheeled Rover (Design Patent)	21 Feb 2025
44	Prof. (Dr) Vinay J. Patel , Prof. Vijaypratap R. Singh , Paavan H. Shah, Jenish Pansheriya, Rohit Gupta, Dhruv Shah, Deep Maheshwari	Eight Wheeled Rover (Design Patent)	21 Feb 2025
45	Dr. Ashish M. Thakkar, Dr. Vinay J. Patel, Dr. Mehfuza S. Holia , Tushar Galaiya, Nirmay Gajjar , Akshay Singh, Utsav A. Maradia	Smart Multi-fluid Spraying Drone (Design Patent)	28 Feb 2025

List of Patents

June 2021 to May 2025

Sr. No	Name of faculty	Title of Patent	Date
46	Dr. Vinay J. Patel, Dr. Mehfuza S. Holia, Dr. Ashish M. Thakkar, Paghadar Akshay Narsinhbhai, Darji Hiteshbhai Nagjibhai , Bambhaniya Anil Nathabhai , Rana Sujal Rajeshkumar ,Machhi Shubham Santoshbhai	Autonomous Underwater Vehicle	3 Mar 2025
47	Kaidjohar Yusufibhai Kharodawala , Keval Rajnikant Rathod, Riya Nirlepkumar Chauhan , Dr. Haresh P. Patolia , Dr. Vinay J. Patel	Six Legged Robot	3 Mar 2025
48	Prof. (Dr) Vinay J. Patel , Prof. Vijaypratap R. Singh , Paavan H. Shah, Jenish Pansheriya, Rohit Gupta , Dhruv Shah, Deep Maheshwari	Eight Wheeled Rover Robot (Prithviraj)	3 Nov 2025
49	Dr. Ashish M. Thakkar ,Dr. Vinay J. Patel ,Dr. Mehfuza S. Holia ,Tushar Galaiya,Nirmay Gajjar,Akshay Singh , Utsav A. Maradia	Multi-fluid Spraying Agricultural Drone	24 Apr 2025
50	Dr. Dipak M. Patel, Dr. Vinay J. Patel, Dr. Rajiv B. Gandhi, Nihar Trivedi, Roshan Mali, Bhavya Jadav,Meet Prajapati	Swarm Drone	23 Apr 2025

Patent Granted

June 2021 to May 2025

Sr. No	Name of faculty	Title of Patent	Date
1	Dr Jayesh Pitroda, Dr Reshma Patel	Lean concrete block	29 Aug 2021
2	Mr R S Barot, Dr H S Berawala	Single Point Incremental Forming Process: Used For Improving Surface Roughness In Formed Sheet Material Component	2 Sept 2022
3	Jay Prajapati	Quadruped Canine Robot Project Id - Bvm/ SSIP /2019-2020/Ipr-4	7 Jan 2022
4	Darshit Darji	Robot Project Id - Bvm/SSIP/2019- 2020/Ipr-11	7 Jan 2022
5	Jay Goswami	Prosthetic Limb Project Id - Bvm/ SSIP /2019-2020/Ipr-13	7 Jan 2022
6	1.Prof (Dr.) Vinay J. Patel ,Darshit Pareshbhai Darji	Eye Drops Instilling Robot	26 Jun 2023
7	Prof. (Dr.) Vinay J. Patel,Prof. (Dr.) Dipakkumar M. Patel,Darshit Pareshbhai Darji,Naitik Hetalkumar Dalwadi,Vrushal Vinodkumar Vara,Rutvik Rajeshbhai Valand,Vivek Niteshbhai Solanki	Underwater Robot (Design Patent)	12 Sept 2023
8	Dr. I N Patel, Prof Jagruti Shah ,Shrey Rana,Sachin Subhas,Devang Jadav,Bhart kanzariya ,Pradip Baldaniya	Concrete Composition	2 Nov 2023
9	Ankur Varma,Jay Suthar, Dr. Mehfuza S. Holia, Dr. M M Solanki	Smart Device Operated And Controlled Electronic Virtual Switch	30 Jan 2024
10	Dr. Vinay J. Patel ,Dr. Rajiv B. Gandhi ,Zuber Ali Makrani,Mohammed Amaan Shaikh,Ayush Vasantbhai Patel,Parth Makvana ,Hrushikesh Vegad	Pipe Climbing Robot	28 Feb 2024
11	Mohammadnadimkhan H. Pathan ,Dr. Kaushika Patel ,Keyur N. Brahmbhatt	Photovoltaic Water Purging System	28 Feb 2024
12	Prof. (Dr.) Kaushika D Patel ,Parth Kachhadiya	Combined Air Conditioning System For Providing Conditioned Air To An Indoor Space	1 Feb 2024

Patent Granted

June 2021 to May 2025

Sr. No	Name of faculty	Title of Patent	Date
13	Gunawan Widjaja, Prof. Dr. Falah Hassan Shari, Mayur M. Sevak, Ms. Anuja Gunale, Satyaprakash Naik, Dr. Tanmay D. Pawar, Dr. N. Nagabhooshanam	Device To Monitor And Alert Heart Attack	12 Jul 2024
14	Prof. (Dr.) Vinay Patel, Prof. (Dr.) Hareesh P. Patolia, Jay Prajapati, Manav Thakkar (ME), Pawan Patel (ME), Ishan Mohite (ME), Parth Panchal (ME)	Quadruped Canine Robot	12 Jul 2024
15	Dr. Hitesh Bhargav, Prof. Chintan Mazmudar, Dr. Ketul Brahmbhatt, Prof. Prakash Tadvi, Prof. Jayeshbhai Rasiklal Koisa.	Integrated Solar Photovoltaic Thermal Collector	4 Oct 2024
16	Dr. Bipasa Bimalendu Patra, Dr. M. V. Ramana Rao, Dr. Yogeshkumar Ramanlal Prajapati, Dr. Dharamvir Singh Ahlawat, Dr. Sajid Babu. N., Dr. Abhay Sharma, Dr. Nahid Khan Mohd., Dr. (Prof.) Saurabh Vinayak Lawate, Dr. (Prof.) Saurabh Vinayak Lawate, Dr. (Prof.) Minal Arvind Gholpe	Device to Manage Power Consumption	4 Apr 2025
17	Bharvi Akin Shah, Dr. Laxmansinh Bhemsinh Zala, Dr. Nipa Desai	Solar Powered Docking And Ev Charging Station	29 May 2025

International Patent

Sr. No	Name of faculty	Title of Patent	Date
1	Dr. J. M. Rathod	A Solar Assisted Climatic Reader Farming Robotic System And Its Working Method Thereof	7 Sept 2021

Research Publications

June 2021 to May 2022

1. Bhavik Shah, Pinakin Patel, L. B. Zala, & Dhaval Parmar, "Effect of Traffic Flow Characteristics on Saturation Flow at Signalized Intersections of Ahmedabad City," in *Proceedings of the Fifth International Conference of Transportation Research Group of India*, Lecture Notes in Civil Engineering, vol. 219, Springer, March 2022, ISBN 978-981-16-8258-2.
2. Yash Tahiliani, L. B. Zala, & Pinakin Patel, "Economic Evaluation of a Highway Project Using HDM-4: A Case Study of Widening of Ahmedabad-Bagodara National Highway," in *Proceedings of the Fifth International Conference of Transportation Research Group of India*, Lecture Notes in Civil Engineering, vol. 219, Springer, ISBN 978-981-16-8258-2.
3. Ayushi V. Shah, Pinakin N. Patel, L. B. Zala, & A. A. Amin, "Analysis of Driver Behaviour in Dilemma Zone at Signalized Intersection Under Heterogeneous Traffic," in *Intelligent Infrastructure in Transportation and Management*, Studies in Infrastructure and Control, Springer, December 2021, ISBN 978-981-16-6935-4.
4. Pinakin N. Patel & Ashish Dhamaniya, "Developing Mixed Traffic Equivalency Factors to Estimate Saturation Flow at Urban Signalized Intersections," *Transportation Research Record: Journal of the Transportation Research Board*, July 2021, ISSN 0361-1981.
5. Vatsal Patel, Dr. Reshma L. Patel, & Dr. S. D. Dhiman, "Inspecting Satellite Data for Surface Air Quality Monitoring and Prediction of Surface AQI using Machine Learning Models and Prophet," *Journal of Emerging Technologies and Innovative Research*, June 2021, ISSN 2349-5162.
6. Dr. J. R. Pitroda, "Machine Learning and the Role of Artificial Intelligence in Optimizing Work Performance and Employee Behavior," *Materials Today: Proceedings*, Volume 51, Part 8, Pages 2327-2331, March 2022, ISSN 2214-7853.
7. Dr. J. R. Pitroda, "Multiple Regression Models for Compressive and Flexural Strength of Recycled Printed Circuit Board Concrete," *Materials Today: Proceedings*, Volume 62, Part 13, Pages 6992-6997, March 2022, ISSN 2214-7853.
8. Dr. J. R. Pitroda, "An Experimental Investigation on the Strength Properties of Bacterial Concrete Using Ceramic Tile Waste Powder," *Materials Today: Proceedings*, Volume 62, Part 13, Pages 7062-7067, March 2022, ISSN 2214-7853.
9. Dr. J. R. Pitroda, "Assessing the Applicability of Fine Copper Slag in Road and Structural Fill Applications," *Materials Today: Proceedings*, Volume 62, Part 13, Pages 7040-7043, March 2022, ISSN 2214-7853.
10. Dr. J. R. Pitroda, "Hard-Hat Detection Using YOLOv4," *IEEE*, ISBN 978-1-6654-2867-5/21, pp. 1122-1129, August 2021, ISSN 2473-9464/2471-6146.
11. Dr. J. R. Pitroda, "Application of the Last Planner System in Construction of Real Estate Projects," *ECS Transactions*, Volume 107, Number 1, 6019, August 2021.
12. Dr. J. R. Pitroda, "Investigating the Impact of Ceramic Tile Powder on Concrete Properties," *International Journal of Engineering Trends and Technology (IJETT)*, August 2021, ISSN 2231-5381.

Research Publications

June 2021 to May 2022

13. Dr. J. R. Pitroda, *Current Scenario of Documentation in the Construction Sector of the Surat Region*, Journal of The Institution of Engineers (India): Series A (IEIA), Volume 102, Issue 03, J. Inst. Eng. India Ser. A, 102, 687–695, June 2021.
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23. Darshankumar C. Dalwadi, Sanket Amin | “ANPR-Based Toll Tax Collection System” | 2023 IEEE 11th Region 10 Humanitarian Technology Conference | October 2023 | ISBN: 979-8-3503-2614-7-23.
24. Darshankumar C. Dalwadi, Utkarsh Jha | “Smart Attendance System Using KNN Algorithm” | 2024 IEEE 11th Region 10 Humanitarian Technology Conference | October 2023 | ISBN: 979-8-3503-2614-7-23.
25. Khushi Patel, Diksha Bhatia, Prof. Bijal Dalwadi | “Vehicle Detection and Counting System” | International Journal of Creative Research Thoughts (IJCRT), Volume 11, Issue 7 | July 2023 | ISSN: 2320-2882.
26. Sneha Bavarva, Kalpesh Sena, Prof. Priyank Bhojak | “SQLI Attack: An Approach Using ML and Hybrid Techniques” | International Journal for Research in Applied Science and Engineering Technology (IJRASET), Volume 11, Issue XI | October 2023 | ISSN: 2321-9653.
27. Yaksh Shah, Nandan Jariwala, Bhakti Kachhia, Prachi Shah | Delving Deep into NutriScan: Automated Nutrition Table Extraction and Ingredient Recognition | International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 11 Issue XI | Nov 2023 | ISSN: 1596-1601.
28. Kashish Datta, Aadityasinh Jadeja, Duttresh Spara, Zankhana Shah | Classification and Analysis of Solar X-ray Monitoring Data for Intensity Monitoring | International Journal for Research in Applied Science & Engineering Technology (IJRASET), VOLUME 11, Issue XI | October 2023 | ISSN: 2321-9653.

Research Publications

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1. Dr. Hitesh Bhargav, "Design and Performance Evaluation of Inverted Downdraft Biomass Gasifier Cook Stove for Enhancing the Kitchen Environment in Rural Areas," *Applied Chemical Engineering*, Apr-24, 2578-2010.
2. Dr. Hitesh Bhargav, "Performance Analysis of Triple Basin Solar Still with an Energy-Exergy Analysis Approach," *Applied Chemical Engineering*, Oct-24, 2578-2010.
3. Sujal Traya, "Multi-Step Closed Die Hot Forging Simulation of Alloyed Steel Billets for Manufacturing a Constant Mesh Gear," *International Journal of Scientific Development and Research (IJS DR)*, Apr-25, 2455-2631.
4. Alpeshkumar B. Damor, Vinay J. Patel, "Design Optimization of Compliant Joint of Humanoid Robot Using Multi-Criteria Decision-Making (MCDM): GRA and TOPSIS," *Indian Journal of Natural Sciences*, Apr-25, 0976-0997.
5. Alpeshkumar B. Damor, Vinay J. Patel, "Response Surface Optimization for the Compliant Joint of a Humanoid Robot Using ANSYS - Design of Experiment," *Indian Journal of Science and Technology*, May-24, 0974-5645.
6. Kamlesh D. Bhatt, Harsh Bhowmick Patel, "Development of an Accurate Demand Forecasting Model and Production Planning Strategies to Ensure Optimal Resource Utilization," *Journal of Emerging Technologies and Innovative Research*, Jun-24, 2349-5162.
7. Purvi D. Chauhan, Mohmad Maaz Vhora, "Optimization in Packing and Handling of Cartons with the Help of Automation," *Indian Journal of Natural Sciences*, Feb-24, 0976-0997.
8. Mayur H. Mandviwala, Purvi D. Chauhan, "A Review of Microstructural Evolution in Steel: From Cementite to Spheroids," *Indian Journal of Natural Sciences*, Feb-24, 0976-0997.
9. Purvi D. Chauhan, Khushboo Soni, Darshan Patel, "Productivity Improvement for the Manufacturing Process of Bearing Plate," *Indian Journal of Natural Sciences*, Feb-24, 0976-0997.
10. Harsh Aacharya, Jigisha Thakkar, Jay Makani, "Alternative Options to Black Oxidizing for Aesthetic Metal Surfaces," *International Research Journal of Modernization in Engineering Technology and Science*, May 2024, 2582-5208.
11. Jigisha Thakkar, Harsh Aacharya, Jay Makani, "Lead Time Reduction for Manufacturing of Geared Coupling," *Journal of Emerging Technologies and Innovative Research*, May 2024, 2349-5162.
12. Dr. Dharmesh Modi, "Monitoring Landform Dynamics of Mahi River Estuary at Gulf of Cambay, Gujarat Using RS-GIS Techniques," *International Journal for Research in Applied Science and Engineering Technology (IJRASET)*, Volume 13, Issue V, May 2025, 2321-9653.
13. Dr. Dharmesh Modi, "Spatial and Temporal Analysis of LULC Dynamics of Mahi and Dhadhar River Estuaries at Gulf of Cambay, Gujarat Using RS-GIS Technique," *International Journal of Innovative Research in Technology (IJIRT)*, Volume 12, Issue 1, 2349-6002.
14. Dr. S. D. Dhiman, "Analysis of Groundwater Quality in the Coastal Stretch of Bhavnagar, Gujarat," *ICAWTM 2023. Lecture Notes in Civil Engineering*, Vol 536, 06 October 2024 (Conference Paper), 978-981-97-5954-5 (Print ISBN), 978-981-97-5955-2 (Online ISBN).

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- 15.** Dr. S. D. Dhiman, “Multivariate Analysis of Inland Water Quality Index in Parts of Vapi District, Gujarat, India,” **Water Supply**, Vol. 25, Issue 2, February 1, 2025, 1606-9749.
- 16.** Bhatt Pratiti, Dr. Khadija Priyan, Er. Snehal Patel, “Experimental Study on Pile Behavior of Various Materials and Soil Conditions Under Uplift Load,” **Indian Journal of Natural Sciences**, Vol. 14, Issue 82, February 2024, 0976-0997.
- 17.** Mistry Yash, Dr. Vishal Arekar, Prof. Vishal Patel, Prof. Pratiti Bhatt, “Seismic Control of Buildings Using Tuned Mass Damper – A Review,” **Indian Journal of Natural Sciences**, Vol. 14, Issue 82, February 2024, 0976-0997.
- 18.** Patel Anvay, Prof. Vishal Patel, Prof. (Dr.) Indrajit Patel, Prof. Vimlesh Agrawal, Prof. Pratiti Bhatt, “Behavior of Twisted Buildings with Various Structural Configurations – A Review,” **Indian Journal of Natural Sciences**, Vol. 14, Issue 82, February 2024, 0976-0997.
- 19.** Jay Patel, Prof. Vishal Patel, Prof. (Dr.) Indrajit Patel, Prof. (Dr.) D. R. Bhatt, “Analyzing the Effects of Variable Diagrid Angles on Tall Building Performance – A Review,” **Indian Journal of Natural Sciences**, Vol. 14, Issue 82, February 2024, 0976-0997.
- 20.** Dhodiya Dixika, Dr. Vishal Arekar, Prof. Vishal Patel, “Seismic Effect of Multi-Tower Connected with Sky Bridge – A Review,” **Indian Journal of Natural Sciences**, Vol. 14, Issue 82, February 2024, 0976-0997.
- 21.** Parth Rathod, Prof. Sumant Patel, Prof. Pratiti Bhatt, “Backstay Effect on Tall Structures with Podium Structure – A Review,” **Indian Journal of Natural Sciences**, Vol. 14, Issue 82, February 2024, 0976-0997.
- 22.** Tushar K., Prof. Vishal Patel, Prof. Vimlesh Agrawal, Prof. Pratiti Bhatt, “Seismic Behavior of Outrigger System in RC Tall Buildings – A Review,” **Indian Journal of Natural Sciences**, Vol. 14, Issue 82, February 2024, 0976-0997.
- 23.** Nikhar Pandya, Prof. Vishal Patel, Prof. Vimlesh Agrawal, Prof. Pratiti Bhatt, “A Comprehensive Study of Fiber Reinforced Polymer Composites: A Review,” **Indian Journal of Natural Sciences**, Vol. 14, Issue 82, February 2024, 0976-0997.
- 24.** Milan Viradiya, Prof. Jagruti Shah, Prof. (Dr.) Indrajit Patel, “Experimental Study on Precast Structures and Cast-in-Situ Structures for Metro Project in Gujarat,” **Indian Journal of Natural Sciences**, Vol. 14, Issue 82, February 2024, 0976-0997.
- 25.** Dhaval Mistry, Prof. Jagruti Shah, Prof. (Dr.) Indrajit Patel, “Evaluating the Suitability of Aggregate and Grout for the Development of Semi-Flexible Pavement,” **Indian Journal of Natural Sciences**, Vol. 14, Issue 82, February 2024, 0976-0997.
- 26.** Vijayant Singh, Prof. Jagruti Shah, Prof. (Dr.) Indrajit Patel, “Sustainable Highway Subgrades for Unsaturated Saline Coast in Ahmedabad Region,” **Indian Journal of Natural Sciences**, Vol. 14, Issue 82, February 2024, 0976-0997.
- 27.** Chirag Prajapati, Prof. Jagruti Shah, Prof. (Dr.) Indrajit Patel, Prof. Pratiti Bhatt, “Sustainable Solid Waste Management by Integration of Waste at Taluka Level – A Case Study of Petlad, Gujarat,” **Indian Journal of Natural Sciences**, Vol. 14, Issue 82, February 2024, 0976-0997.
- 28.** Bhargav Patel, Prof. Jagruti Shah, Prof. (Dr.) Indrajit Patel, “Planning Proposal for Road Infrastructure Development for Vapi – Silvassa Corridor,” **Indian Journal of Natural Sciences**, Vol. 14, Issue 82, February 2024, 0976-0997.

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- 29.** Jagruti Kautker, Prof. Jagruti Shah, Prof. (Dr.) Indrajit Patel, *A Sustainable Approach for Pollution-Free Mobility: Green Airport*, Indian Journal of Natural Sciences, Vol. 14 / Issue 82 / Feb / 2024, 0976-0997
- 30.** Sohil Badi, Prof. Jagruti Shah, Prof. (Dr.) Indrajit Patel, *Sustainability and Urban Development: An In-depth Study of Self-Sustainable Integrated Townships for Rajkot*, Indian Journal of Natural Sciences, Vol. 14 / Issue 82 / Feb / 2024, 0976-0997
- 31.** Baldaniya Pradip, Rana Shrey, Subhash Sachin, Kanjariya Bharat, Prof. Jagruti Shah, Dr. Indrajit Patel, *Experimental Study on the Performance of COVID Waste in Developing Construction Components of Next Generation*, Indian Journal of Natural Sciences, Vol. 14 / Issue 82 / Feb / 2024, 0976-0997
- 32.** Vishal Nihalani, Aashish Chhatani, Prof. Dr. Deepa Sinha, Prof. Nekzad Umrigar, *Evaluation of Strength and Comparative Study on Silica Fume*, Indian Journal of Natural Sciences, Vol. 14 / Issue 82 / Feb / 2024, 0976-0997
- 33.** Vimleshkumar V. Agrawal, Indrajit N. Patel, *Nonlinear Static and Dynamic Analysis of the Elevated Water Tank Considering Soil Structure Interaction*, Indian Journal of Natural Sciences, Vol. 14 / Issue 82 / Feb / 2024, 0976-0997
- 34.** Jagruti Shah, Dr. Rajiv Bhatt, *Integrating Dynamic Modeling and Decision Support Systems for Sustainable Urban Planning in a Changing Climate*, Urban Water Journal, Volume 21, 2024 - Issue 6, 1744-9006
- 35.** Bhargav Raval, Dr. Snehal V Mevada, *Seismic Response Control of Tall Buildings Installed with Linear and Nonlinear Viscous Dampers*, SSRG International Journal of Civil Engineering, Volume 11 Issue 8, 46-66, August 2024, 2348-8352
- 36.** Bhatt Pratiti, Dr. Khadija Priyan, Er. Snehal Patel, *Analysing Pile Foundation Settlement using Bi-Directional Static Load Test and Equivalent Top Load Theory: A Study with ANSYS Software*, Indian Journal of Natural Sciences, Vol. 15 / Issue 87 / Dec / 2024, 0976-0997
- 37.** Dr. Deepa Sinha, Dr. Elizabeth George, *Experimental Study on Lightweight Structural Concrete*, Indian Journal of Natural Sciences, Vol. 14 / Issue 82 / Feb / 2024, 0976-0997
- 38.** Cherish Vaidya, Bhargav Goradiya, Mehfuza Holia, *Leveraging Inverse Reinforcement Learning for Cyber Security in Smart Cities: Learning from Patterns*, Safeguarding Cities: Inverse Reinforcement Learning Strategies for Resilient Cyber Defenses in Smart Urban Infrastructures, Indian Journal of Natural Science, Jan 2024, 0976-0997
- 39.** Kaushika D. Patel, Darshankumar C. Dalwadi, Rakesh D. Patel, *Performance Analysis of Lean Six Sigma using Machine Learning Approach*, Indian Journal of Natural Science, Jan 2024, 0976-0997
- 40.** Dhrumil Gajera, Prit Vadalia, Dr. Darshankumar Dalwadi, Dr. Kaushika Patel, *Comprehensive Analysis of Microstrip Patch Antennas in the Context of Satellite Communication*, Indian Journal of Natural Science, Jan 2024, 0976-0997
- 41.** Prathviraj Singh, Dhweep Shah, Darshankumar C. Dalwadi, *Survey on Massive MIMO and Smart Antenna System*, Indian Journal of Natural Science, Jan 2024, 0976-0997

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42. Bhavesh A. Tanawala, Darshankumar C. Dalwadi, *GANs in Crafting Visual Realms: A Comprehensive Examination of Image Synthesis Applications*, Indian Journal of Natural Science, Jan 2024, 0976-0997
43. Kaushika D. Patel, Darshankumar C. Dalwadi, Rakesh D. Patel, *Home Automation Using Mitsubishi GOC35 PLC*, Indian Journal of Natural Science, Jan 2024, 0976-0997
44. Ami H. Bhensjaliya, Darshankumar C. Dalwadi, *Performance Analysis of Rice Grains Using Neural Network*, Indian Journal of Natural Science, Jan 2024, 0976-0997
45. Jaydeepsinh C. Baria, Darshankumar C. Dalwadi, Keyursinh Chauhan, *High-Performance and Robust Control of Interior Permanent Magnet Synchronous Motor (IPMSM) Drives Using Fuzzy Logic Controller (FLC) with Different Defuzzification Methods Across Varied Speed Ranges*, Indian Journal of Natural Science, Jan 2024, 0976-0997
46. A. B. Bambhaniya, Viny Selopal, Deepak Vala, Jagdish Rathod, Devang Rathod, *Facial Emotion Recognition Using Deep Learning*, Indian Journal of Natural Science, Jan 2024, 0976-0997
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48. Kaushal Patel, Falgun Thakkar, *Design and Analysis of Dual-Band Dual-Polarized Hybrid Half Cylindrical Dielectric Resonator Antenna for Satellite Base Station and Wireless Applications*, International Journal of Microwave and Optical Technology, Jan 2024, 1553-0396
49. Rohan Badga, Abhishek Dey, Mayur M. Sevak, *Survey of Air Quality Index Monitoring Using Sensor-Based Drone*, Journal of Control and Instrumentation Engineering, Jan 2024, 2582-3000
50. Harsh O. Khandelwal, Aryan Shah, Prerna Sharma, Mayur M. Sevak, *Advancements in Earth Observation Satellites: A Case Study of ISRO's Missions*, Research & Reviews: Journal of Space Science & Technology, Jan 2024, 2321-2837
51. Dr. Y. R. Prajapati, *A Social Responsibility of Energy Conservation and the Need for Energy Conservation Awareness in India*, Perspectives in Social Work, Volume: XXXIX, No. 2, August 2024, 0974-5114
52. Hitarth Solanki, Tarang Patel, Chintan Bamania, Vithal Kamat, Dharita Patel, *Chargers for Solar and E-Vehicles*, Indian Journal of Natural Sciences, Vol. 14 / Issue 82 / Feb / 2024, 0976-0997
53. Pritesh Pandey, Dr. Keyur N. Brahmabhatt, *A Comprehensive Guide to Deep Neural Network-Based Image Captions*, International Journal of Innovative Science and Research Technology, March 2024, 2456-2165
54. Bhoomi Parikh, Dr. Zankhana Shah, *Promoting Technological Advancements in a Non-Invasive Manner to Facilitate Mental Health Services for Women: A Comprehensive Study*, Indian Journal of Natural Sciences (Web of Science Indexed), February 2024, 0976-0997
55. Dr. Zankhana Shah, Jayraj Malamdi, Bhavya Dave, Shrey Bhatt, Dhruv Shah, *Real-Time Cartoonization: Fusion of Computer Vision and Artistic Rendering in Python*, Indian Journal of Natural Sciences (Web of Science Indexed), February 2024, 0976-0997

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56. Dr. Zankhana Shah, Komal Vaswani, Smit Patel, Devangiri Goswami, Dhruv Purohit, *Automated Classroom Attendance System Using Image Processing*, Indian Journal of Natural Sciences (Web of Science Indexed), February 2024, 0976-0997
57. Jayati Raval, Ayush Patel, Prof. Prachi Shah, *Furniture Fusion: Elevating Your Shopping Journey*, Indian Journal of Natural Sciences (Web of Science Indexed), February 2024, 0976-0997
58. Maitri Patel, Krunal Shinde, Manav Shah, Bijal Dalwadi, *Fake News Detection Using Machine Learning and Natural Language Processing*, Indian Journal of Natural Sciences (Web of Science Indexed), February 2024, 0976-0997
59. Ami H. Bhensjaliya, Dr. Darshankumar C. Dalwadi, *Performance Analysis of Rice Grains Using Neural Network*, Indian Journal of Natural Sciences, February 2024, 0976-0997 (Print)
60. Kavya Dave, Yuvrajsinh Chauhan, Zeelrajsinh Mahida, Jaydeep Baldaniya, Mayur Vegad, Narendra Patel, *POCUS: Enhancing Productivity - Integrating Pomodoro, To-Do Lists, and Performance Evaluation*, Indian Journal of Natural Sciences, February 2024, 0976-0997 (Print)
61. Bhavesh Tanawala, Dr. Darshankumar C. Dalwadi, *GANs in Crafting Visual Realms: A Comprehensive Examination of Image Synthesis Applications*, Indian Journal of Natural Sciences, February 2024, 0976-0997 (Print)
62. Lata Bhavnani, Narendra M. Patel, *Attention Mechanisms in VQA: A Comparative Exploration of Soft, Stack, and Additive Attention Approaches*, Indian Journal of Natural Sciences, February 2024, 0976-0997 (Print)
63. Ankita Gandhi, Dr. Udesang K. Jaliya, *Stress Detection Through EEG Signals: Employing a Hybrid Approach Integrating Time Domain, Frequency Domain Features, and Machine Learning Techniques*, J. Electrical Systems, March 2024, 3965-3973
64. Kaushika Patel, *Recent Advancements and Challenges in the Integration of MANET for 5G Technologies*, Indian Journal of Natural Sciences, February 2024, 0976-0997
65. Chetan Jayaswal, *Analysis of Healthcare 4.0: Shaping the Future of Healthcare*, Indian Journal of Natural Sciences, February 2024, 0976-0997
66. A. N. Bhatt, J. M. Rathod, *A Comprehensive Survey of Two-Wheeler Security and Monitoring Technologies for Riders*, Indian Journal of Natural Sciences, February 2024, 0976-0997
67. Parul Panchal, *A Multi-Mode Frequency Reconfigurable Antenna for 5G and WLAN Applications*, Indian Journal of Natural Sciences, February 2024, 0976-0997
68. Deepak Vala, Jagdish Rathod, Mehfuza Holia, *Image Captioning Using Deep Learning – An Overview*, Indian Journal of Natural Sciences, February 2024, 0976-0997
69. Kaushika D. Patel, *Performance Analysis of Lean Six Sigma Using Machine Learning Approach*, Indian Journal of Natural Sciences, February 2024, 0976-0997
70. Kaushika Patel, *Comprehensive Analysis of Microstrip Patch Antennas in the Context of Satellite Communication*, Indian Journal of Natural Sciences, February 2024, 0976-0997
71. A. N. Bhatt, *Advanced Lightweight AI Model for Indian Fruit Quality Evaluation Using Computer Vision*, Indian Journal of Natural Sciences, October 2024, 0976-0997

Book / Chapter/Conference Paper Published

June 2021 to May 2022

Sr. No.	Name of the Faculty	Title of the Book published	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/Conference Proceeding	Name of the Publisher
1	Dr. A. K. Verma	Geotechnical and Foundation Engineering	—	—	Sep-21	978-938-50-39515	Charotar Publishing House Pvt Ltd
2	S D Dhiman	Advances in Intelligent Systems and Computing , book series (AISC, volume 1405)	Multivariate Analysis and Human Health Risk Assessment of Groundwater in Amreli District of Gujarat State, India	Second International Conference MMCITRE 2021	December, 2021	978-981-16-5952-2	Springer Nature
3	R S Barot, Janak B. Valaki, Alpesh H. Makwana, Hardik Beravala	Technology Innovation in Mechanical Engineering, Lecture notes in Mechanical Engineering	Experimental Investigation and Machinability Study of Ni-Cr-Based Super Alloy Using Powder Mixed EDM.	Proceeding of Technology Innovation in Mechanical Engineering (TIME 2021)	April, 2022	Electronic ISSN 2195-4364, Print ISSN 2195-4356	Springer
4	J. M. Rathod	Automation in Construction Industry (Volume-1)	—	—	Aug 2021	978-19-56102-36-9	INSC International Publisher
5	J. M. Rathod	Automation in Construction Industry (Volumn-2)	—	—	Sep 2021	978-93-89779-53-0	Sarth Publication-Sardar Gunj Anand
6	J. M. Rathod	Smart Antennas	Design and Fabrication of Axially Corrugated Gaussian Profiled Horn Antenna	—	Feb 2022	978-3-030-76636-8	Springer Innovations in Communication and Computing
7	T. D. Pawar	IoT Applications for Healthcare Systems	Computation Offloading for Smart Healthcare Applications	—	Apr 2022	978-3-030-91096-9	Springer Innovations in Communication and Computing

Book / Chapter/Conference Paper Published

Sr. No.	Name of the Faculty	Title of the Book published	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/Conference Proceeding	Name of the Publisher
8	Dr. Darshankumar C. Dalwadi	Advanced Informatics for Computing Research	Smart Approach for Identification of Pneumonia Using Real-Time Convolutional Neural Networks	Communications in Computer and Information Science	Jun 2021	978-981-16-3660-8	Springer
9	Dr. Darshankumar C. Dalwadi	Machine Learning: A Programming Approach for Model Conversion	—	—	Dec 2021	979-8783928307	Amazon
10	Mayur Sevak, Tanmay Pawar	ICT Systems and Sustainability	ECG Signal Compression Using Singular Value Decomposition and Implementation on PYNQ-Z2	Lecture Notes in Networks and Systems (LNNS, volume 321)	Jan 2022	978-981-16-5987-4	Springer
11	Dr. Robinson P. Paul	Novel Algorithm for Medical Image Compression	—	—	May 2022	978-620-4-95513-1	Lambert Academic Publishing
12	Vishal Polara, Dr. Pooja Bhatt, Dharmesh Patel, Ketan Rathod	Block chain technology in application development and Its associated challenges	Block chain technology in application development and Its associated challenges	Lecture Notes on Data Engineering and Communications Technologies	December, 2021	ISSN 2367-4512	Springer

Book / Chapter/Conference Paper Published

June 2022 to May 2023

Sr. No.	Name of the Faculty	Title of the Book published	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/Conference Proceeding	Name of the Publisher
1	Neha Patel, Darshana Bhatt	--	--	Insights of Ground Water Quality assessment methods- A Review	Mar 2023	-	
2	Neha Patel, Darshana Bhatt	--	--	Ground Water Quality assessment using multivariate statistical Analysis: A case study of Anand, Gujarat, India	Mar 2023	-	
3	Prof. V. B. Patel	--	--	Closed-form derivation of optimum Tuned Mass Damper Parameter Based on Modal Multiplicity criteria	Dec 2022	ISSN 2830- 09X (Vol:1, Issue 4, pp-1041-1049)	
4	Prof. V. B. Patel	--	--	Seismic risk assessment of Asymmetric Buildings using fragility curve	Dec 2022	ISSN-2830-09X(Vol:1,Issue 6,pp-1727-1739)	
5	Dr. T. D. Pawar	Lecture Notes in Networks and Systems	Investigation of Bypass Routing Protocol and Multipath Routing Protocol of Castalia Simulator in Underwater Environment	7th International Conference on ICT for Sustainable Development		6,pp-1727-1739)	Springer Science and Business Media Deutschland GmbH
6	Dr. T. D. Pawar	Conference Proceeding	Automated System for Lung Nodule Classification Based on ResNet50 and SVM	3rd International Conference on Issues and Challenges in Intelligent Computing Techniques	Nov 2023	978-166548268-4	Institute of Electrical and Electronics Engineers Inc.

Book / Chapter/Conference Paper Published

June 2022 to May 2023

Sr. No.	Name of the Faculty	Title of the Book published	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/Conference Proceeding	Name of the Publisher
7	Nishant K. Singh, Yashvir Singh, Bholey Singh, Hardik Berawala amd Edited By Yashvir Singh, Nishant K. Singh, Mangey Ram	Advanced Manufacturing Processes	Electrical Discharge Drilling of Al-SiC Composite with Gas-Assisted Multi-Hole Rotary Slotted Tool	--	Aug 2022	9781003220237 (eISBN)	CRC Press, Taylor and Francis
8	Hardik Beravala, Nishant K. Singh, Editor of Book: Sharma, V., & Pandey, P.M.	Additive and Subtractive Manufacturing Processes: Principles and Applications (1st ed.)	Thermal-Energy-Based Advanced Manufacturing Processes	--	Nov 2022	9781000000000	CRC Press.
9	Priyanka Jain, Parth Langalia, Zankhana Shah	Sequence to Sequence Video Captioning System	Springer Book Chapter on Smart Innovation, Systems and Technologies	--	Oct 2022	2190-3026 (eISSN),	Springer
10	Rajnik Katriya, Vishal Polara, Pooja Bhatt	Privacy perserving of vertically partitioned data using elliptical curve cryptography	--	--	Dec 2022	-	

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Sr. No.	Name of the Faculty	Title of the Book published	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/ Conference Proceeding	Name of the Publisher
11	Hasmukh Chauhan, Pranav Pandya, and Chancy Shah	--	Spacio-Statistical Model to Predict Crime Locations based on Past Crime Events and UAV Based Monitoring of the Predicted Surveillance Route	Proceedings of UASG 2021: Wings 4 Sustainability	Mar 2023	978-3-031-19308-8	Springer
12	Dr. A. B. Bambhaniya	Design and Development of Channel Estimation Techniques for OFDM System	--	--	2022	978-620-4-98648-7	LAMBERT Academic Publishing
13	Dr. J. M. Rathod	Springer Tracts in Electrical and Electronics Engineering book series	Design and Analysis of Wideband Polarization Independent Absorber for L and S Band		May 2023	978-981-99-0211-8	Springer Nature

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Sr. No.	Name of the Faculty	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/Conference Proceeding	Name of the Publisher
1	J R Pitroda, Jagdish M Rathod, Yogesh R. Prajapati, Arjan B. Bambhaniya, Rupam kumar Maru, Dr.Indrajit N Patel	An Investigation: Effective Use of the Internet of Things (IoT) in the Construction Industry	International Conference on Computer, Electronics, and their Applications (IC2E3-2023), 8-9th June 2023, NIT Uttarakhand	2023	DOI: 10.1109/IC2E35769 7.2023.10262546	IEEE Xplore.
2	Dr. Y. R. Prajapati, Dr. Jayesh R. Pitroda, Dr. J. M. Rathod, Dr. I. N. Patel	Analytics and computation of Energy Conservation through energy audit for sustainability in energy consumption development in Education Building: A Case Study	1st International Conference on Intelligent Computation and Analytics on Sustainable Energy and Environment (ICICASE-2023) 21st to 23rd September, 2023	2023	978-93-6678-905-7	GKCIT, Malda, West Bangal
3	M. M. Chokhawala, J. R. Pitroda, Indrajit N. Patel, Reshma L. Patel	Rising to the Sky: A Historical and Psychological Exploration of Skyscrapers	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	
4	Ms. Purna Vachhani, J. R. Pitroda, Indrajit N. Patel, Reshma L. Patel	Nanostructured Materials in Construction: A Path to High-Performance Infrastructure	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
5	Divyesh Sanjaybhai Solanki, J. R. Pitroda, Indrajit N. Patel, Reshma L. Patel	Micro-Pile: New Era for Construction Industry	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
6	Mohit Maheshbhai Mojidra, J. R. Pitroda, Indrajit N. Patel, Reshma L. Patel	Exploring Crane Systems and Innovative Erection Methods in Building and Infrastructure Projects	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	
7	Hardik J. Jethwa, J. R. Pitroda, Indrajit N. Patel, Reshma L. Patel	Transforming Urban Infrastructure: The Evolution and Advantages of Trenchless Technology in Road Construction	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	

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Sr. No.	Name of the Faculty	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/ Conference Proceeding	Name of the Publisher
8	M. M. Chokhawala, J. R. Pitroda, Indrajit N. Patel, Reshma L. Patel	Automation and Robotics: A future/trend of Construction Industry	3rd International Conference on "Women in Science & Technology: Creating Sustainable Career"/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
9	Nijal Alpeshkumar Kadia, J. R. Pitroda, Reshma L. Patel, Indrajit N. Patel	Prefabricated Modular Construction in Recent Time	3rd International Conference on "Women in Science & Technology: Creating Sustainable Career"/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
10	Malav Nileshbhai Shah, J. R. Pitroda, Reshma L. Patel, Indrajit N. Patel	Sustainable Building Materials: Lightweight Aggregates from Industrial Waste	3rd International Conference on "Women in Science & Technology: Creating Sustainable Career"/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
11	Pinkal Rameshbhai Chauhan, J. R. Pitroda, Reshma L. Patel, Indrajit N. Patel	Transforming Textile Waste into Sustainable Construction Materials: A Comprehensive Study	3rd International Conference on "Women in Science & Technology: Creating Sustainable Career"/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
12	Jaydeep J. Chavda, Dr. Indrajit N. Patel, Prof. Jagruti P. Shah, Dr. Jayeshkumar R. Pitroda, Dev Bhavsar	Experimental Investigation on Nitrogen Oxides Pollutant Reduction Characteristics of Cement Mortar using Photocatalytic Material	3rd International Conference on "Women in Science & Technology: Creating Sustainable Career"/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
13	Bhatt Pratiti, Dr. Khadija Priyan, Er. Snehal Patel	Experimental Study on Pile Behavior of various material and Soil Conditions under Uplift Load	3rd International Conference on "Women in Science & Technology: Creating Sustainable Career"/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
14	Bhatt Pratiti, Dr. Khadija Priyan, Er. Snehal Patel	Determination of Mobilized Pile Capacity using Bi-directional Static Load Test	3rd International Conference on "Women in Science & Technology: Creating Sustainable Career"/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication

Book / Chapter/Conference Paper Published

Sr. No.	Name of the Faculty	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/ Conference Proceeding	Name of the Publisher
15	Mistry Yash, Dr. Vishal Arekar, Prof. Vishal Patel, Prof. Pratiti Bhatt	Seismic Control of Building Using Tuned Mass Damper – A Review	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
16	Patel Anvay, Prof. Vishal Patel, Prof. (Dr.) Indrajit Patel, Prof. Vimlesh Agrawal, Prof. Pratiti Bhatt	Behavior of twisted building with various structural configurations- A review	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
17	Jay Patel, Prof. Vishal Patel Prof. (Dr.) Indrajit Patel, Prof. (Dr.) D. R. Bhatt	Analyzing the effects of variable diagrid angles on tall building performance -A review	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
18	Dhodiya Dixika, Dr. Vishal Arekar, Prof. Vishal Patel	Seismic effect of multi-tower connected with sky bridge-a review	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
19	Parth Rathod, Prof. Sumant Patel, Prof. Pratiti Bhatt	Backstay effect on Tall Structures with Podium Structure -A Review	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
20	Jaimin Parmar, Dr. Naval Kishor, Dr. Chandan Swaroop, Prof. Jagruti Shah	The behavior of Prefabricated Reinforced Concrete (RC) Structural Elements under Fire: A theoretic review of methodologies and solutions	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
21	Tushar K. Prof. Vishal Patel, Prof. Vimlesh Agrawal, Prof. Pratiti Bhatt	Seismic behavior of outrigger system in RC tall building - A review	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication

Book / Chapter/Conference Paper Published

Sr. No.	Name of the Faculty	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/ Conference Proceeding	Name of the Publisher
22	Kirit Prajapati, Prof. Pratiti Bhatt, Prof. G. B. Rathod	Study on compressive strength of plastic grain reinforced piles using temperature sensor- A review	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
23	Nikhil Pandya, Prof. Vishal Patel, Prof. Vimlesh Agrawal, Prof. Pratiti Bhatt	A Comprehensive Study of Fiber Reinforced Polymer Composites: A Review	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
24	Milan Viradiya, Prof. Jagruti Shah, Prof.(Dr.) Indrajit Patel	Experiment Study on Precast Structure and Cast in Situ Structure for Metro Project in Gujarat	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
25	Dhaval Mistry, Prof. Jagruti Shah, Prof.(Dr.) Indrajit Patel	Evaluating the Suitability of Aggregate and Grout for the Development of Semi-Flexible Pavement	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
26	Vijayant Singh, Prof. Jagruti Shah, Prof.(Dr.) Indrajit Patel	Sustainable Highway Subgrades for Unsaturated Saline Coast in Ahmedabad Region	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
27	Chirag Prajapati, Prof. Jagruti Shah, Prof.(Dr.) Indrajit Patel, Prof. Pratiti Bhatt	Sustainable Solid Waste Management by Integration of waste at Taluka level-A Case study of Petlad, Gujarat	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
28	Bhargav Patel, Prof. Jagruti Shah, Prof.(Dr.) Indrajit Patel	Planning Proposal of Road Infrastructure Development for Vapi – Silvassa Corridor	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication

Book / Chapter/Conference Paper Published

Sr. No.	Name of the Faculty	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/ Conference Proceeding	Name of the Publisher
29	Jagruti kautker, Prof. Jagruti Shah, Prof.(Dr.) Indrajit Patel	A Sustainable Approach for Pollution-Free Mobility: Green Airport	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
30	Sohil Badi, Prof. Jagruti Shah, Prof.(Dr.) Indrajit Patel	Sustainability and Urban Development: An In-depth Study of Self-Sustainable Integrated Townships for Rajkot	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	
31	Dr. Deepa Sinha, Dr. Elizabeth George	Experimental Study on Lightweight Structural Concrete	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	
32	Baldaniya Pradip, Rana Shrey, Subhash Sachin, Kanjariya Bharat, Prof. Jagruti Shah Dr.Indrajit Patel	Experimental Study on the Performance of COVID Waste in Developing Construction Components of Next Generation	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	
33	Prof. Jagruti Shah, Dr. Rajiv Bhatt, Prof.(Dr.) Indrajit Patel	Critical review study on climate change estimation models to reduce the future risk	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	
34	Vishal Nihalani, Aashish Chhatani, Prof. Dr. Deepa Sinha, Prof.Nekzad Umrigar	Evaluation of strength and comparative study on silica fume	3rd International Conference on “Women in Science & Technology: Creating Sustainable Career”/2023	2023	978-93-6678-905-7	
35	Tanvi S. Laddha, Darshak G. Thakore and Udesang K. Jaliya	Generating Human-Like Descriptions for the Given Image Using Deep Learning	Gandhinagar University - Journal of Engineering and Technology (GU-JET)		https://doi.org/10.1051/itmconf/20235302001	

Book / Chapter/Conference Paper Published

Sr. No.	Name of the Faculty	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/Conference Proceeding	Name of the Publisher
36	Chris Chauhan, Bhavesh Tanawala, Mosin Hasan	Multi Genre Symbolic music generation using Deep convolution Generative Adversarial Networks	Gandhinagar University - Journal of Engineering and Technology (GU-JET)	May 2023	ISSN 2249-6157	
37	Dhruvisha N. Jaiswala, Kirtikumar J. Sharma, Prashant B. Swadas	Wheat Head Detection Using Deep Learning Techniques	Gandhinagar University - Journal of Engineering and Technology (GU-JET)	May 2023	ISSN 2249-6157	
38	Nihal Kumar, Aman Shaikh, Shery Hingu, Mosin Hasan and Dr N M Patel	Breaking Barriers: An application for the empowerment of deaf individuals	Gandhinagar University - Journal of Engineering and Technology (GU-JET)	May 2023	ISSN 2249-6157	
39	Ami H Bhensjaliya and Dr Darshankumar C. Dalwadi	Performance Analysis of Rice grains Using Neural Network	3rd International Conference on "Women in Science & Technology: Creating Sustainable Career"/2023	December, 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
40	Bhavesh A. Tanawala, Dr. Darshankumar C. Dalwadi	LSTM, RNN and GAN models effectiveness for Flute Music Generation: A thorough expedition	2nd International Conference on Advancements in Smart Computing and Information Security, Springer CCIS	December, 2023	DOI: https://doi.org/10.1007/978-3-031-58604-0_24	
41	Kavya Dave, Yuvrajsinh Chauhan, Zeelrajsinh Mahida, Jaydeep Baldaniya, Mayur Vegad, Narendra Patel	POCUS: Enhancing productivity – Integrating Pomodoro, To-Do lists, and Performance Evaluation	3rd International Conference on "Women in Science & Technology: Creating Sustainable Career"/2023	December, 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
42	Bhavesh Tanawala, Dr. Darshankumar C. Dalwadi, Palak Patel	GANs in crafting Visual Realms: A Comprehensive Examination of Image Synthesis Applications	3rd International Conference on "Women in Science & Technology: Creating Sustainable Career"/2023	December, 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication

Book / Chapter/Conference Paper Published

Sr. No.	Name of the Faculty	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/ Conference Proceeding	Name of the Publisher
43	Lata Bhavnani, Dr N M Patel	Attention Mechanisms in VQA: A Comparative exploration of soft, stack and additive approaches	3rd International Conference on "Women in Science & Technology: Creating Sustainable Career"/2023	December, 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
44	Hitesh B. Patel, Dr. Keyur Brahmabhatt, Dr. Mahasweta Joshi	Data augmentation approach for Type-2 diabetes prediction and classification	3rd International Conference on "Women in Science & Technology: Creating Sustainable Career"/2023	December, 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
45	Jay Goswami, Vinay J. Patel, M S Holia, Ashish M. Thakkar	Unity-Based Digital Twin for 3D Printers: Bridging the Gap between Virtual and Physical Realities enabling real time monitoring & Synchronization in additive manufacturing	3rd International Conference on "Women in Science & Technology: Creating Sustainable Career" (ICWSTCSC: 2023)	December, 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
46	H G Katariya, Bhagyesh Suryavanshi, Vasim Kaji, Deval Pachchigar, Dharmin Bhandari	"Experimental study of double slope solar still for enhancing performance through innovative design"	2nd International Conference on Aspects of Materials and Mechanical Engineering (ICMME-2023) jointly organized by Department of Mechanical Engineering, GLA University, Mathura (India) and UFRGS, Porto Alegre (Brazil) held on 13th – 14th October 2023	October, 2023		

Book / Chapter/Conference Paper Published

Sr. No.	Name of the Faculty	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/Conference Proceeding	Name of the Publisher
47	Kaushika Patel, Darshankumar C. Dalwadi	Home automation using Mitsubishi GOC35 PLC	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
48	Kaushika Patel, Darshankumar C. Dalwadi	Performance analysis of lean six sigma using machine learning approach	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
49	Prathviraj Singh, Darshankumar C. Dalwadi, Kaushika Patel	Survey on Massive MIMO and Smart antenna system	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
50	Bhargav Goradiya, M. S. Holia	Leveraging inverse reinforcement learning for cyber security in smart cities learning from patterns, safeguarding cities: Inverse reinforcement learning strategies for resilient cyber defenses in smart urban infrastrucutres	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
51	Anish Vahora, Ronak Vashi	Reconfigurable Graphene based flexible antenna for switching in between LTE band and L5 band	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
52	Niksha Patel, Dr. Keyur Brahmbhatt	Vehicle Tracking Technologies for Speed Measurement: A Comprehensive Study with novel approach	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication

Book / Chapter/Conference Paper Published

Sr. No.	Name of the Faculty	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/ Conference Proceeding	Name of the Publisher
53	Pritesh Pandey, Dr.Keyur Brahmbhatt, Dr.Kaushika Patel, Dr.N.M.Patel	Automatic Image Tagging and Retrieval of Images based on Visual Features	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
54	Hitesh B Patel, Dr. Keyur Brahmbhatt, Dr.Mahasweta Joshi	Data Augmentation approach for Type 2 Diabetes Prediction and Classification	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
55	Vishal Polara,Dr. Jagdish Rathod, Dr. Keyur Brahmbhatt, Dr. Kaushika Patel	Recent advancement and challenges in integration of MANET for 5G Technologies	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
56	Dharmesh Patel, Dr. Keyur Brahmbhatt, Dipika Kothariya, vishal polara, Dr. Nilesh Prajapati	Review on Blind Image steganalysis using DCT	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
57	Dhruval Patel, Gupta Badal, Mr. Hiren Mer, Mrs.Vaidehi Patel, Vishal Polara,	Prediction of Heart Failure using machine learning algorithms	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
58	Dharmesh Patel, Kinjal Gandhi, Vishal Polara, Nehali Jain	An Empowering Women in STEM: Bridging Gaps and Fostering Inclusivity for Sustainable Careers	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication

Book / Chapter/Conference Paper Published

Sr. No.	Name of the Faculty	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/ Conference Proceeding	Name of the Publisher
59	Prof.Dipika Kothariya, Dr. K.N.Brahmbhatt, Prof. Dharmesh B.Patel,Prof. Vishal Polara,Prof.Dharmesh G.Patel	Navigating the Educational Landscape: Understanding the Post-COVID-19 Effects on Education	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
60	Bhoomi Parikh, Dr. Zankhana Shah	Promoting technological advancements in a non-invasive manner to facilitate mental health services for women: A Comprehensive Study	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
61	Dr Zankhana Shah, Komal Vaswani, Smit Patel, Devangiri Goswami, Dhruv Purohit	Automated Classroom Attendance System Using Image Processing	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
62	Duttresh Sapra, Aadityasinh Jadeja, Bhavin Vhanesha, Dr. Zankhana Shah	Real-Time Cartoonization: Fusion of Computer Vision and Artistic Rendering in Python	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
63	Dr. Vatsal Shah, Dr. Jayna Donga	A Novel Multiprocessor Scheduling Algorithm for Soft Real-Time System	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
64	Sneh Bavarva, Kalpesh Senva, Prof. Priyank Bhojak, Kashish Datta	Enhancing OSINT Practices with Eye-Sint: A Multi-Module Intelligence Tool	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication

Book / Chapter/Conference Paper Published

Sr. No.	Name of the Faculty	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/ Conference Proceeding	Name of the Publisher
65	Jayati Raval, Ayush Patel, Prof. Prachi Shah	Furniture Fusion: Elevating Your Shopping Journey	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
66	Prof. Sanket Suthar, Prof. Bijal Dalwadi	Empirical Analysis of Classification Approaches for Indian Language Processing	International Conference on Communication and Intelligent Systems (ICCIS 2023)	Dec 2023	978-981-97-2082-8	https://link.springer.com/chapter/10.1007/978-981-97-2082-8_18#citeas Springer, Singapore
67	Yash Sindha, Duttresh Sapra, Tilak kundaliya, Keyur N. Brahmhatt and Dipika Kothariya	Captioning the Visual World: A Survey of Image-To-Text Approaches	International Conference On Women In Science & Technology: Creating Sustainable Career	Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
68	Nitin Bathani Dr. J. M. Rathod, Utkal Mehta	Design and Analysis of Wideband Polarization Independent Absorber for L and S Band		May 2023	978-981-99-0211-8	SpringerLink
69	Jaydeepsinh Baria, Darshankumar C. Dalwadi, Dharita Patel	High Performance and Robust control of Interior Permanent Magnet Synchronous Motor (IPMSM) Drives using Fuzzy logic controller (FLC) with different defuzzification methods across varied speed ranges	International Conference On Women In Science & Technology: Creating Sustainable Career	1 Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication
70	Dhrumil Gajera, Darshankumar C. Dalwadi, Kaushika Patel	Comprehensive analysis of microstrip patch antennas in the context of satellite communication	International Conference On Women In Science & Technology: Creating Sustainable Career	1 Dec 2023	978-93-6678-905-7	Birla Vishvakarma Mahavidyalaya Engineering College and Mahi Publication

Book / Chapter/Conference Paper Published

June 2024 to May 2025

Sr. No.	Name of the Faculty	Title of the Book published	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/ Conference Proceeding	Name of the Publisher
1	Mr. Nikhar Pandya, Dr. I. N. Patel, Prof. Vishal Patel, Dr. Vimlesh V. Agrawal			Numerical, Analytical and experimental investigation of Reinforced concrete beams with Glass fiber Reinforces Polymer bars	Dec 2024		
2	Dr. D. A. Sinha Dr. E. P. George			Design and Durability aspect of hybrid fiber Reinforced self-compacting Concrete	Dec 2024		
3	ByJaimin Sureshbhai Parmar, Chandan Swaroop Meena, Nawal Kishor Banjara, Jagruti Piyushkumar Shah	Sustainable Technologies for Energy Efficient Buildings	India's future on sustainable infrastructure A systematic review of initiatives		Jul 1905	978100349665	Taylor & Francis group
4	Anant Parghi, Jay Gohel, and Snehal V. Mevada	Springer Nature Switzerland, LNCE, volume 511	Effect of Re-centering Shape Memory Alloy Damper on Seismic Response of Torsionally Coupled Idealized Frame System		Aug 2024	2366-2557	Springer Nature Link
5	Shailesh Kakaiya, Dr. Rashesh P. Mehta	Protection of Series Compensated Networks Using Different Techniques: An Overview		Power Engineering and Intelligent Systems - PEIS 2024, NIT, Uttarakhand			
6	Dharita K. Patel, Dr. Rashesh P. Mehta	Modeling and Implementation of Efficient Control for Permanent Magnet Synchronous Motor: A Review		Lecture Notes in Electrical Engineering 1304/Control Applications in Modern Power Systems, Select Proceedings of EPREC 2024, Volume 3		978-981-96-0104-2	link.springer.com/chapter/10.1007/978-981-96-0104-2_9

Book / Chapter/Conference Paper Published

Sr. No.	Name of the Faculty	Title of the Book published	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/ Conference Proceeding	Name of the Publisher
7	Dr. Y R Prajapati	Intelligent Frequency Regulation under a Deregulated Control System Using Distributed Energy Storage Systems,” in 2025 International Conference on Sustainable Energy Technologies and Computational Intelligence				979-8-3315-2054-0	ieeexplore.ieee.org/document/10932373
8	Sanket Suthar, Rajnik KatriyaRajnik Katriya, Bijal Dalwadi		Computational Intelligence in Pattern Recognition (Book Chapter)	Typeface Identification for English using Convolutional Neural Networks	March, 2024		
9	Jayesh R. Pitroda, Udesang Jaliya, Jagdish Rathod, Keyur Brahmhatt, and Rajesh Gujar			Compressive Strength Prediction Using Machine Learning Techniques for Recycled E-waste Concrete	August, 2024		Springer
10	Vatsal Hasmukhbhai Shah,Rahil Maniar		IGI Global, Scopus Index	A Comprehensive Review of Ontologies in Cybersecurity	November, 2024		Scopus

Book / Chapter/Conference Paper Published

Sr. No.	Name of the Faculty	Title of the Book published	Title of the Chapter published	Title of the proceedings of the conference	Year and month of publication	ISBN of the Book/ Conference Proceeding	Name of the Publisher
11	Pari Patel, Om Beladiya, Dr. Zankhana Shah			ResNet-Defake: Detecting Deepfake Images with Customized ResNet	January, 2025	ISSN: 3004-9598	Springer
12	Het patel, Darshak Thakore & Narendra Patel			Skin Cancer classification using deep learning techniques	May, 2024		
13	Dr. Udesang K. Jaliya, Prof. Megha Shah, Prof. Neeta Chudasama, Prof. Miti Desai			A Novel Approach for Human Action Recognition from Video		Yet not received	
14	Editors: Indrajit N. Patel , B.Kondraivendhan, C.D. Modhera, U. Johnson Alengaram	Lecture Notes in Civil Engineering	Recent Advances in Structural in Structural Engineering-Vol.1	Selected Proceeding of RAISE 2024			Springer
15	Editors: Indrajit N. Patel , B.Kondraivendhan, C.D. Modhera, U. Johnson Alengaram	Lecture Notes in Civil Engineering	Recent Advances in Structural in Structural Engineering-Vol.2	Selected Proceeding of RAISE 2024			Springer
16	Editors: Indrajit N. Patel , B.Kondraivendhan, S.A. Vasanwala, U. Johnson Alengaram	Lecture Notes in Civil Engineering	Recent Advances in Structural in Structural Engineering-Vol.3	Selected Proceeding of RAISE 2024			Springer
17	Editors: Indrajit N. Patel , B.Kondraivendhan, S.A. Vasanwala, U. Johnson Alengaram	Lecture Notes in Civil Engineering	Recent Advances in Structural in Structural Engineering-Vol.4	Selected Proceeding of RAISE 2024			Springer

Doctoral Research

Ph.D. Degree Awarded

2021-2025



Dr. Y R Prajapati

Title : Price Based Intelligent Automatic Generation and Control
Gujarat Technological University
27 Jan 2021

Dr. A.B. Bambhaniya
Title : Design And Development of Pilot Based Channel Estimation Techniques For OFDM System
Charusat University
5 Jan 2022



Dr. Kanu Patel
Title : Design and development of energy efficient cluster based routing protocol for wireless sensor network
Charusat University
3 Apr 2023

Dr. Anishbhai A. Vahora
Title : Design and Development of Cylindrical Dielectric Resonator Antenna(CDRA) Array For Wireless Communication
Charusat University
26-Sep-23



Dr Nilesh Sonara
Title: Applications of spline function to the flow through porous media
Veer Narmad South Gujarat University
25 May 2023

Dr. Mahasweta Joshi
Title : Abnormal Activity Detection in Surveillance videos
Charusat University
4 Dec 2023



Dr. Ronak R. Vashi
Title : Design and Development of Graphene Paper based Flexible antennas For Smart Wireless Devices
Charusat University
16 Oct 2023

Dr Vimleshkumar V Agrawal
Title :Evaluation of Dynamic Parameters of Elevated water Tank Considering Soil Structure Interaction
Gujarat Technological University
12 june 2024



Dr. Ami B Parekh
Title : Classic Algorithm for Organic Cereals
Gujarat Technological University
21 sept 2024

Dr Ashish M Thakkar
Title: Development of Energy Efficient walking pattern for Biped Robot
Gujarat Technological University
10 Dec 2024



Dr Amit H Chokshi
Title : Machine Learning-Based Energy Efficient Routing Protocols for Vanet Applications via Dynamic Clustering Madel
Gujarat Technological University
29 June 2024

Dr Vishalkumar A Polara
Title : Cost Optimization Approach for Manet using Particle Swarm Optimization
Gujarat Technological University
26 Dec 2024



Dr Pinakin N Patel
Title : Analysis of Traffic Stream Characteristics at Urban Signalised Intersections under Mixed Traffic Conditions
Sardar Vallabhbhai National Institute of Technology
2021

Dr H G Katariya
Title : Experimental Studies on Biogas Enrichment and Comparative Performance Evaluation of Spark Ignition Engine with Enriched Biogas as Fuel
Gujarat Technological University
2023



Dr Jagruti P. Shah
Title : Innovative Support Framework to estimate the Climate Change Effects for Sustainable Future
CVM University
23 July 2025

Dr Pratiti M Bhatt
Title : Analysis of Pile Foundation for Ground Improvement
CVM University
31 July 2025



Doctoral Research

List of Faculty Pursuing PhD Degrees

SR.No	NAME OF FACULTY	DEPARTMENT	UNIVERSITY
1	PROF. NEHA R PATEL	CIVIL	GUJARAT TECHNOLOGICAL UNIVERSITY
2	PROF. NEKZAD F UMRIGAR	CIVIL	GUJARAT TECHNOLOGICAL UNIVERSITY
3	PROF. AMIT A AMIN	CIVIL	GUJARAT TECHNOLOGICAL UNIVERSITY
4	PROF. VISHAL B PATEL	STRUCTURE	IIT BOMBAY
5	PROF. RIDHI VASHI	STRUCTURE	CVM UNIVERSITY
6	PROF. BHAVESH A TANAWALA	COMPUTER	GUJARAT TECHNOLOGICAL UNIVERSITY
7	PROF. KIRTI J SHARMA	COMPUTER	GUJARAT TECHNOLOGICAL UNIVERSITY
8	PROF. CHAUHAN DIVYANG J.	COMPUTER	GUJARAT TECHNOLOGICAL UNIVERSITY
9	PROF. PARUL H PANCHAL	ELECTRONICS	CHARUSAT, CHANGA
10	PROF. CHINTAN S PATEL	ELECTRONICS	GUJARAT TECHNOLOGICAL UNIVERSITY
11	PROF. CHETAN J JAYASWAL	ELECTRONICS	GUJARAT TECHNOLOGICAL UNIVERSITY
12	PROF. NIRAJ R ADA	ELECTRONICS	GUJARAT TECHNOLOGICAL UNIVERSITY
13	PROF. ANITA N BHATT	ELECTRONICS	GUJARAT TECHNOLOGICAL UNIVERSITY
14	PROF. JAYDEEPSINH C BARIA	ELECTRICAL	GUJARAT TECHNOLOGICAL UNIVERSITY
15	PROF. SWAPNIL V ARYA	ELECTRICAL	GUJARAT TECHNOLOGICAL UNIVERSITY
16	PROF MANISHKUMAR N SINHA	ELECTRICAL	GUJARAT TECHNOLOGICAL UNIVERSITY
17	PROF DHARITA K PATEL	ELECTRICAL	GUJARAT TECHNOLOGICAL UNIVERSITY
18	PROF ASHISH R PATEL	ELECTRICAL	GUJARAT TECHNOLOGICAL UNIVERSITY
19	PROF. RAMESHKUMAR G JIVANI	MECHANICAL	GUJARAT TECHNOLOGICAL UNIVERSITY
20	PROF. VIPUL H CHAUDHARI	MECHANICAL	GUJARAT TECHNOLOGICAL UNIVERSITY
21	PROF. JAYESH R KOISA	MECHANICAL	GUJARAT TECHNOLOGICAL UNIVERSITY
22	PROF. ALPESHKUMAR B DAMOR	MECHANICAL	GUJARAT TECHNOLOGICAL UNIVERSITY
23	PROF. VIJAYPRATAP R SINGH	MECHANICAL	GUJARAT TECHNOLOGICAL UNIVERSITY
24	PROF. CHINTN P MAZMUDAR	MECHANICAL	GUJARAT TECHNOLOGICAL UNIVERSITY

Doctoral Research

List of Faculty Pursuing PhD Degrees

SR.No	NAME OF FACULTY	DEPARTMENT	UNIVERSITY
25	PROF. TRAYA SUJAL UMARBHAI	MECHANICAL	GUJARAT TECHNOLOGICAL UNIVERSITY
26	PROF. KANKESH DAVE	MECHANICAL	MARWADI UNIVERSITY
27	PROF. JIGISHA B THAKKAR	PRODUCTION	CHARUTAR VIDYAMANDAL UNIVERSITY
28	PROF AKIL H JARIYA	PRODUCTION	GUJARAT TECHNOLOGICAL UNIVERSITY
29	PROF.GHANSYAM B RATHOD	ELECTRONICS & COMMUNICATION	CHARUSAT, CHANGA
30	PROF. PALAK K PATEL	ELECTRONICS & COMMUNICATION	GUJARAT TECHNOLOGICAL UNIVERSITY
31	PROF. KAUSHAL R PATEL	ELECTRONICS & COMMUNICATION	GUJARAT TECHNOLOGICAL UNIVERSITY
32	PROF. MAYUR M SEVAK	ELECTRONICS & COMMUNICATION	GUJARAT TECHNOLOGICAL UNIVERSITY
33	PROF. BIJAL N DALWADI	INFORMATION TECHNOLOGY	GUJARAT TECHNOLOGICAL UNIVERSITY
34	PROF. DHARMESH G PATEL	INFORMATION TECHNOLOGY	GUJARAT TECHNOLOGICAL UNIVERSITY
35	PROF PRACHI K SHAH	INFORMATION TECHNOLOGY	GUJARAT TECHNOLOGICAL UNIVERSITY
36	PROF. PRIYANK N BHOJAK	INFORMATION TECHNOLOGY	GUJARAT TECHNOLOGICAL UNIVERSITY
37	PROF. DIPALI H GAJJAR	MATHEMATICS	SARDAR PATEL UNIVERSITY
38	PROF. AJIT MARCHANT	MATHEMATICS	CVM UNIVERSITY

Doctoral Research

The scholars registered for PhD under the faculty of BVM during years 2014-25

Sr No	Name of the scholar	Year of registration of the scholar	Name of Supervisor
1	YASHWANTSINH ZALA	2014	DR A.K. VERMA
2	PRATIK SOMAIYA	2014	
3	POORAV SHAH	2014	
4	NITENDRA MAHAJAN	2014	
5	PRATIK SONI	2018-19	
6	ADITI K SHETH	2019-20	
7	BHAVIK K. DAXINI	2014	DR INDRAJIT N PATEL
8	DUSHYANT R. BHIMANI	2014	
9	DARSHAN SHAH	2015-16	
10	GOHIL GAURAV PRAKASHBHAI	2019-20	
11	CHAVDA JAYDEEPCBNAI J*	2020-21	
12	KIRTIKUMAR SHARMA	2015-16	DR. N M PATEL
13	KINJAL V JOSHI	2016-17	
14	PRADIP R PATEL	2016-17	
15	HETAL GODANI	2016-17	
16	LATA BHAVNANI	2019-20	
17	JAYKUMAR VALA	2018-19	DR. U. K. JALIYA
18	JAYMIT PANDYA	2018-19	
19	ANKITA GANDHI	2018-19	
20	AMIT BHUPENDRABHAI PARMAR	2017-18	DR. KEYUR BRAHMBHATT
21	PRITESH PANDEY	2017-18 Completed	
22	JAGRATI HARIBHAI PRAJAPATI	2019-20	
23	PATEL NIKESHABAHEN SANJAYBHAI	2019-20	
24	BHAVESH ASHOKKUMARTANAWALA	2019-20	DR. DARSHANKUMAR C. DALWADI
25	JAYDEEPSINH CHHATRASINH BARIA	2019-20	
26	BAMNIYA KISHOR HIMSINH	2019-20	

Doctoral Research

The scholars registered for PhD under the faculty of BVM during years 2014-25

Sr No	Name of the scholar	Year of registration of the scholar	Name of Supervisor
27	AMIT A. AMIN	2018-19	DR. L.B. ZALA
28	NIKUNJ V THAKAR	2016-17	
29	BHARVI AKIN SHAH	2018-19	
30	NAYANKUMAR P SONI	2015-16	DR. S D DHIMAN
31	KISHOR BHIKHABHAI VAGHELA	2017-18	DR. JAYESHKUMAR R. PITRODA
32	NEKZAD FAROKH UMRIGAR	2017-18	
33	HIREN AMRATLAL RATHOD	2019-20	
34	CHINTAN SHAILESHBHAI RAICHURA	2019-20	
35	TANUJ PRAVINBHAI PARMAR	2019-20	
36	CHAUHAN DHYEY BHARATBHAI	2020-21	DR. S. V. MEVADA
37	JAY D GOHEL	2019-20	
38	MOHIT K PARMAR	2019-20	
39	BHARGAV S RAWAL	2019-20	DR. D. A. SINHA
40	RASOOLBHAI I USMANGANI	2019-20	
41	PRAJAPATI KRUNALB	2020-21	
42	ZEESHAN I MUNSHI	2019-20	DR. VISHAL A. AREKAR
43	RAMESHKUMAR G JIVANI (Retired)	2018-19	DR. P M GEORGE
44	SHYAM VARGHESE	2015-16	
45	PRADHYUMAN PARMAR	2016-17	

Doctoral Research

The scholars registered for PhD under the faculty of BVM during years 2014-25

Sr No	Name of the scholar	Year of registration of the scholar	Name of Supervisor
46	ALPESHKUMAR B DAMOR	2018-19	DR. VINAYKUMAR J PATEL
47	ASHISH M THAKKAR	2018-19(completed)	
48	VIPUL H CHAUDHRY	2018-19	
49	RAKESH S BAROT	2019-20	
50	SINGH VIJAYPRATAP RAMSEN	2019-20	
51	KOISA JAYESHKUMAR RASIKLAL	2020-21	
52	SANADIYA JAYDEEPKUMAR V	2022-23	DR. HARESH P PATOLIA
53	MAKWANA MAHESHKUMAR A	2016-17	
54	TANDEL KENALKUMAR DAYARAM	2019-20	
55	PAREKH RAVIKUMAR PRAKASHBHAI	2019-20	
56	IMRAN MOHAMMEDAMIN MOLVI	2016-17	DR. HITESH BHARGAV
57	MAZMUDAR CHINTAN PUSHPVADAN	2020-21	
58	PATEL MAYURKUMAR H	2020-21	
59	ANAND PANDYA	2017-18 (completed)	DR. TANMAY D PAWAR
60	ASHWINIKUMAR JHA	2016-17	
61	MAYUR M SEVAK	2017-18	
62	PATEL CHINTAN S	2019-20	
63	ADA NIRAJKUMAR RATUBHAI	2019-20	
64	JAYASWAL CHETAN JAYPRAKASH	2019-20	

Doctoral Research

The scholars registered for PhD under the faculty of BVM during years 2014-25

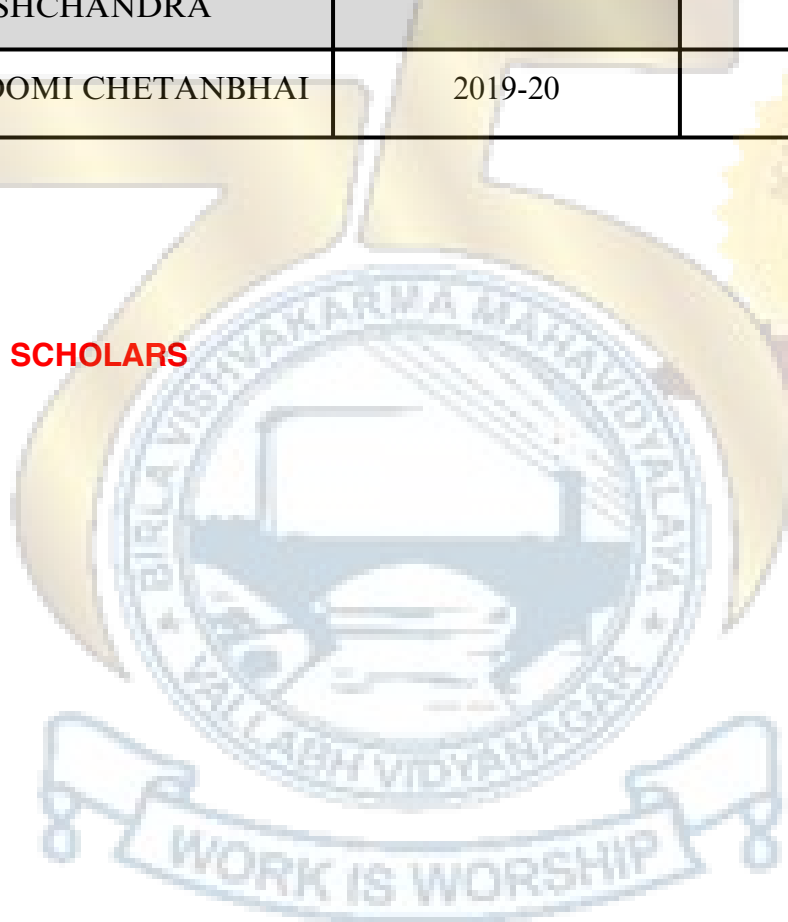
Sr No	Name of the scholar	Year of registration of the scholar	Name of Supervisor
65	MEHUL ANANTRAI JALAL	2019-20	DR. JAGDISH M RATHOD
66	UTKARSHKUMAR V SHAH	2019-20	
67	VISHALKUMAR A POLARA	2019-20 completed	
68	BATHANI NITINKUMAR J	2017-18	
69	HARDIK PATEL	2019-20	
70	SHAH PRIYANKA MUKESHCHANDRA	2019-20	
71	DALSANIA PIYUSHKUMAR C	2019-20	
72	DAMOR SANGRAMSINH NATUBHAI	2019-20	
73	GHARIYA RUTIKABEN PRADIPSINH	2020-21	
74	MOHAMMAD NADIMKHAN H. PATHAN	2022-23	
75	HETAL SHAH	2018-19	DR. MAFUZA S HOLIA
76	AMITKUMAR M SHETH	2019-20	DR.KAUSHIKA D PATEL
77	PATEL KAUSHIKKUMAR S	2019-20	
78	PATEL BRIJESHKUMAR U	2019-20	
79	SHAILESHKUMAR U KAKAIYA	2022-23	DR. RASHESH P MEHTA
80	ASHISH R PATEL	2022-23	
81	DHARITA K PATEL	2022-23	
82	KAKAIYA SHAILESHKUMAR U	2022-23	
83	PATEL ASHISH R	2022-23	

Doctoral Research

The scholars registered for PhD under the faculty of BVM during years 2014-25

Sr No	Name of the scholar	Year of registration of the scholar	Name of Supervisor
84	PRACHI K SHAH	2022-23	DR. VATSAL H SHAH
85	NAINA PARMAR	2022-23	
86	PARMAR JINALBA D	2022-23	
87	AKIL H JARIYA	2022-23	DR. HARDIK S BERAVALA
88	KOTHARI HARSH PARESHBHAI	2019-20	DR RAJIV GANDHI
89	KARIYA SHRUTI SHAILESHBHAI*	2020-21	
90	VERMA USHA HARIPRASAD	2020-21	
91	PATEL NEHA RAMESHCHANDRA	2019-20	DR. DARSHANA BHATT
92	PARIKH BHOOMI CHETANBHAI	2019-20	DR. ZANKHANA H SHAH

* FULL-TIME RESEARCH SCHOLARS



Research Awards

Research Awards Received by the Faculty Members

Sr.No.	Name of Faculty	Award Title	Event Name
1	Dr. Vatsal Shah	NPTEL Discipline Stars	NPTEL, Swayam, Ministry of HRD
2	Dr. Vatsal Shah	NPTEL Enthusiast	NPTEL, Swayam, Ministry of HRD
3	Dr. J.M. Rathod	INSPIRA-IRA academic excellence award – 2020	INSPIRA Research Association, Jaipur
4	Dr. J.M. Rathod	Gaurav Purshkar	Individual faculty's Excellence category
5	Dr. M. S. Holia	Received Gold medal and top position in NPTEL,	NPTEL, MHRD MOOC course, “Microprocessors and Microcontrollers”
6	Dr. Vatsal Shah	NPTEL Domain Scholars	IIT Madras, NPTEL, Swayam, MHRD
7	Dr. Vatsal Shah	NPTEL Discipline Stars	IIT Madras, NPTEL, Swayam, MHRD
8	Dr. Vatsal Shah	Certificate of Elite + Silver	Course on Python for Data Science
9	Dr. Vatsal Shah	NPTEL Domain Scholars	NPTEL, Swayam, MHRD
10	Dr. Vatsal Shah	NPTEL Discipline Stars	NPTEL, Swayam, MHRD
11	Prof. Neha Patel	Received appreciation certificate as Guide	Interlinking of academicians, Industries and Government, supported by Forests and Environmental Dept. GOG.

Research Awards

Research Awards Received by the Faculty Members

Sr.no.	Name of the Faculty	Award Title	Event Name
12	Dr.Jagdish M Rathod	Research Excellence	Research Award received by APEEJAY School of Management, Dwarka, Delhi at World Innovation Patent Conclave
13	Dr. Jagdish M Rathod	Tech Guru Award - 2022 (Best Teacher Award)	GTU Tech Guru awards declared in every year.
14	Dr. Vatsal Shah	Topper and Elite	NPTEL SWYAM, MINISTRY Of HRD,
15	Prof. Nilesh Sonara	Best research paper Presentation Awarded	GUJCOST (DST), Govt of Gujarat Sponsored International Conference on Applied Mathematical Sciences (ICAM-2022)
16	Prof. Vishal Patel	Best paper	12th Structural Engineering Convention, SEC-22,MNIT, Jaipur
17	Dr. J.M.Rathod	Gaurav Puraskar 2023	Tech-Guru 2022 (Best Teacher) by GTU
18	Prof. Ronak Vashi	Research Paper Award	Best Paper Award For Publish Paper In Web of Sci. Charusat
19	Dr. K.D.Patel	Gaurav Puraskar 2023	ISTE National Award for Promising Engineering TEacher
20	Dr. R.B. Gandhi Dr. H.P.Patolia Dr. M.S.Holia Prof. A.M.Thakkar	Gaurav Puraskar 2023	Winner in ROBOFEST 2.0

Research Awards

Research Awards Received by the Faculty Members

Sr.no.	Name of the Faculty	Award Title	Event Name
21	Dr. H G Katariya	Best paper award	2nd International Conference on Aspects of Materials and Mechanical Engineering (ICMME-2023) jointly organized by GLA University, Mathura & UFRGS, Porto Alegre (Brazil)
22	Dr. Indrajit Patel, Prof. Jagruti Shah, Jaydeep J. Chavda	Best paper award	International Conference on Women in Science & Technology: Creating Sustainable Career
23	Dr. Vatsal Shah	Best paper award	International Conference on Women in Science & Technology: Creating Sustainable Career
24	Dr. Darshan Dalwadi	Best paper award	International Conference on Women in Science & Technology: Creating Sustainable Career
25	Prof. Swapnil Arya	“Dronacharya Award” for the Best Mentorship	National level competition eBAJA 2024 by SAE INDIA at Hyderabad, Telangana.
26	Dr. Robinson Paul	Static Timing Analysis-I	Udemy Course
27	Dr. H. G. Katariya	Best paper award	2nd International Conference on Aspects of Materials and Mechanical Engineering (ICMME-2023) jointly organized by GLA University, Mathura & UFRGS, Porto Alegre (Brazil)
28	Dr. J. R. Pitroda	A P J Abdul Kalam Award for Outstanding Researchers 2024	Association of Researchers & Academicians (India) – ARAI
29	Dr. Indrajit Patel Prof. Vishal Patel Dr. V. V. Agrawal	Best Paper Award	RAISE 2024
30	Dr. Vinay J Patel, Dr. Ashish Thakkar, Dr. Mehfuza Holia and team	Qualified level 1 and selected for Grand Finale	SAUVC 2025 (Singapore Autonomous Underwater Vehicle Challenge)

R & D Activities

ICRISET-2020
TEQIP III sponsored
2nd INTERNATIONAL CONFERENCE (DIGITAL)
ON
**RESEARCH AND INNOVATIONS IN
SCIENCE, ENGINEERING & TECHNOLOGY**
4 - 5 SEPTEMBER, 2020

NPIU

Organized by:
Birla Vishvakarma Mahavidyalaya
Engineering College
[An Autonomous Institution]
Managed by Charutar Vidya Mandal
Affiliated by Gujarat Technological University
Vallabh Vidyanagar - 388120 Dist. : Anand, Gujarat, INDIA

R & D Activities

International Conference Women in Science & Technology: Creating Sustainable Career (ICWSTCSC-2023)

Objectives of the Conference:

Science and technology is improving day by day to help mankind and providing facilities in improving the quality of life. Innovation, entrepreneurship and science and technology activities are today increasingly being dominated by women in India who represent half the resources and half the potential in all the society.

The first and second version of ICWSTCSC which has created benchmark in the History of BVM with more than 300 publications and 500 participations across the globe and association with Gujarat Technological University, ISTE, AICTE, IE(I) and foreign universities from Canada, Island, Russia and USA as academic partner in ICWSTCSC 2016 & 2018. We continuously received feedbacks from the experts and participants to organize this mega event which has encouraged us to organize this event once again which provides professional women in technological space be it in industry, academia, or government, the opportunity to create communities that fuel innovation, facilitate knowledge sharing and provide support through highly interactive sessions designed to foster discussion and collaboration. It focuses on providing cutting-edge professional development for women.

ICWSTCSC 2023 is a multi-disciplinary event encompassing themes related to various disciplines of Science, Engineering & Technology. The objective of the conference is to bring female professionals from industry, academics, research organizations and research scholars of matching interests on a common platform to share new ideas, experiences and knowledge in various fields. The 3rd International Conference on "Women in Science & Technology: Creating Sustainable Career" is organized by BVM Engineering College, Vallabh Vidyanagar, Gujarat, India. All honorable authors are kindly encouraged to contribute to and help shape the conference through submissions of their research papers. High quality research contributions describing original and unpublished results of conceptual, constructive, empirical, experimental, or theoretical work in all areas of Women in Engineering, Technology, Science and all other relevant fields are cordially invited for presentation and publication at the conference.



International Conference Women in Science & Technology: Creating Sustainable Career (ICWSTCSC-2023)

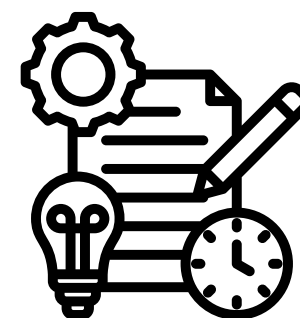


Expert Sessions on Research Methodology

Date: 12/11/22 to 13/11/22

Venue: Dr. Subhash University, Junagadh

Experts: Dr. Jagdish M. Rathod Dr. Darshankumar C. Dalwadi Dr. Jayesh Pitroda
Dr. Mukesh Shimpi



Research Week 2023

14th to 18th March 2023

Venue: LRUC Hall at BVM Engineering College

Experts: Dr. J. M. Rathod , Dr. D. C. Dalwadi , Dr. M. E. Shimpi , Dr. J. R. Pitroda,
Dr. Snehal Popli



Expert Sessions on Research Methodology and Research & Publication Ethics

Date: 25/03/23 to 27/03/23

Venue: Dr. Subhash University, Junagadh

Experts: Dr. Jagdish M. Rathod Dr. Darshankumar C. Dalwadi Dr. Jayesh Pitroda,
Dr. Mukesh Shimpi



Expert Sessions on Research Methodology and Research & Publication Ethics

Date: 16/09/23 to 18/09/23

Venue: Dr. Subhash University, Junagadh

Experts: Dr. Jagdish M. Rathod Dr. Darshankumar C. Dalwadi Dr. Jayesh Pitroda Dr. Mukesh Shimpi



National Workshop on “Recent Trends and Applications In Machine Learning & IoT”

Date : 15th July 2023



About the Course

Course Objectives

1. To understand the fundamentals of machine learning and Internet of Things (IoT).
2. To explore recent trends in machine learning and IoT.
3. To study the integration of machine learning and IoT.
4. Hands-on experience with machine learning and IoT tools.
5. To explore real world applications.
6. To promote critical thinking and problem solving skills.



National Workshop on “Strategic Planning for Educational Institutions/Universities”

Date : 6th July 2024



**BIRLA VISHVAKARMA MAHAVIDYALAYA
(ENGINEERING COLLEGE)**
[An Autonomous Institution] [NAAC Accredited: 'A' Grade]
Managed by Charutar Vidya Mandal

NATIONAL WORKSHOP
“Strategic Planning for Educational Institutions/Universities”
6th July 2024

Key-Note Speaker:
Prof. (Dr.) Indrajit N. Patel
Principal, BVM

Resource Person:
Prof. (Dr.) Tejash V Pujara
Tolani Motwane Institute of Management Studies

Convener:
Prof. (Dr.) Jagdish M. Rathod
Associate Dean-Degree Engineering
(GTU-Zone 3)

Jointly Organized by
IQAC Birla Vishvakarma Mahavidyalaya Engineering College
The Institution of Engineers (India) Vallabh Vidyanagar Local Center

Coordinator
Dr. Darshankumar C. Dalwadi

Organizing Secretary
Prof. (Dr.) J. R. Pitroda

Co-Coordinator
Prof. Vishal A. Polara

Venue: Centre of Excellence Geo Spatial, E-Block



National Workshop on “Optimizing Construction Projects with Primavera”

March 28 & 29, 2025



One -day Workshop on “Basic Concepts and Scientific Writing in LaTeX”



चारुतर विद्यामंडल - बल्लभ विद्यानगर
कर्मण्येवाधिकारस्ते



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BIRLA VISHVAKARMA MAHAVIDYALAYA
(An Autonomous Institution)
NAAC Accredited: 'A' Grade
Managed by Charutar Vidya Mandal



70th Anniversary
IETE
We do what we say
1955-2025

One-day Workshop on

Basic Concepts and Scientific Writing in LaTeX

The primary goal of this workshop is to provide participants with a solid foundation in LaTeX, enabling them to create professional-quality documents with ease. You will be equipped with the knowledge and skills to:

- Understand the basic structure and syntax of LaTeX.
- Create well-formatted documents, including articles, reports, and presentations.
- Incorporate tables, figures, and mathematical equations seamlessly.
- Manage references and citations effectively using BibTeX.
- Customize document layouts to meet various formatting requirements.

14 Aug 2024

3:00 pm to 5:00 pm

Expert:-
Dr. N C Sonara
Department of Mathematics, BVM

Scan QR Code for Registration:



Selected applicants for the workshop will be intimated via email about the session timings of the workshop.

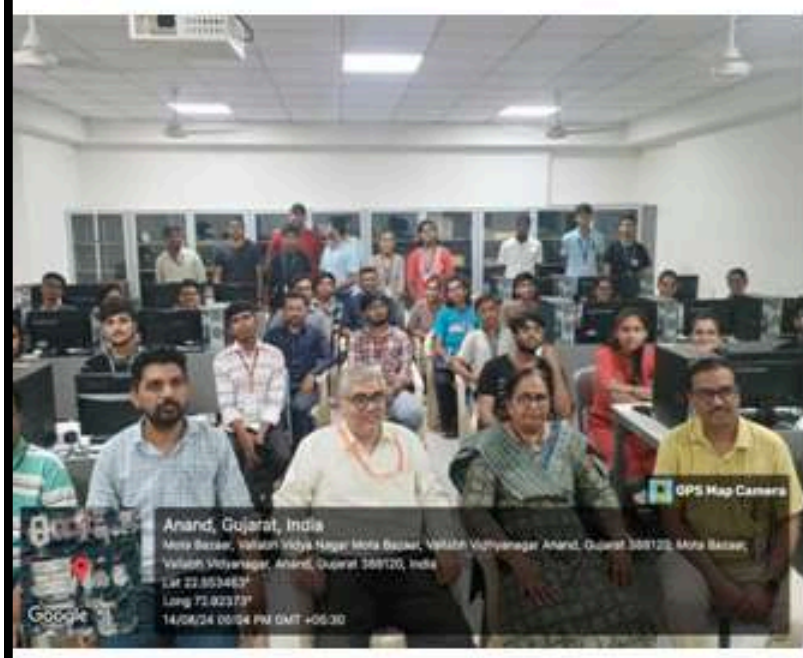
Conveners

Prof.(Dr.) T A Desai Prof.(Dr.) T D Pawar
Prof.(Dr.) J M Rathod


Coordinators

Prof. (Dr.) M E Shimpi
Dr. Darshan Dalwadi
Dr. D.L. Vala
Dr. A. B. Bambhaniya


IEEE BVM SB



One -day Workshop on Research Paper Writing using Latex: Practical Exposure




चारुतर विद्यामंडल - वल्लभ विद्यानगर
कर्मण्येवाधिकारस्ते



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A NAAC

BIRLA VISHVAKARMA MAHAVIDYALAYA
(An Autonomous Institution)
NAAC Accredited: 'A' Grade
Managed by Charutar Vidya Mandal
Electronics Department, ISTE is
organizing



INDIAN SOCIETY FOR TECHNICAL EDUCATION

One-day Workshop on

Research paper writing using LATEX: Practical Exposure

The primary goal of this workshop is to provide participants with a solid foundation in LaTeX, enabling them to create professional-quality documents with ease. You will be equipped with the knowledge and skills to:

- Understand the basic structure and syntax of LaTeX.
- Create well-formatted documents, including articles, reports, and presentations.
- Incorporate tables, figures, and mathematical equations seamlessly.
- Manage references and citations effectively using BibTeX.
- Customize document layouts to meet various formatting requirements.


18 Oct 2024

10:30 am

Conveners
Prof.(Dr.) T A Desai Prof.(Dr.) T D Pawar
Dr. M. M. Solanki

Expert:-
Dr. N C Sonara
Department of Mathematics, BVM

Scan QR Code for Registration:



Selected applicants for the workshop will be intimated via email about the session venue of the workshop.

Coordinators
Prof. C.S. Patel,
Prof. C. J. Jayaswal,
Prof. N. R. Ada



One day visit for Industry-Institute Interaction

**JCB INDUSTRIES PVT LIMITED,
Halol, Gujarat**

**STBI -DST Incubation Centre,
Gujarat Government, Savli**

Date : 18/08/2023



One day visit for Industry-Institute Interaction

1. Intech System Pvt. Ltd., S. G. Highway, Ahmedabad
2. Bacancy Technology, Thaltej, Ahmedabad
3. Tatvasoft , Tatvasoft house, Thaltej, Ahmedabad
4. Crest Data System Pvt. Ltd., S G Highway, Ahmedabad

Date : 21/09/2023



Contact Us



researchcell@bvmengineering.ac.in

Disclaimer: All information given in this R & D Cell Report is based on NAAC criteria III details submitted by respective Departments.

BIRLA VISHVAKARMA MAHAVIDYALAYA
(An Autonomous Institution)
NAAC Accredited: 'A' Grade
Managed by Charutar Vidya Mandal