


Department of Chemical Engineering
Faculty Achievements for the Academic Year 2023-24

Sr. No.	Faculty Achievements (Type)	Total Number
1.	Patent published/granted/filed	01
2.	Research articles in different Journals	12
3.	Books/Book Chapters Published	08
4.	Conference Publications	30
5.	FDP/ workshop/seminar attended	17
7.	Acted as Resource Person	11
8.	Awards won by the faculty	05

1. Patent Publications

Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Title of the Patent	Applicant/s Name	Assignee/s Name (Institute Affiliation/s at time of Application)	Here, attach source of proof i.e. URL/website links, etc.
1	2023210379 34	Published filed on 06-02-2023 and published on 15/12/2023	A Reactive Distillation Method For Partial Gas Phase Oxidation By Heterogeneous Catalysis	Dr. BVS Praveen	PANDIT DEENDAYAL ENERGY UNIVERSITY	https://drive.google.com/file/d/1YyGjrTbRHb0aCV7Q4LIWUd6ZlXik2Nve/view?usp=drive_link


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2. Research articles

Summary of publications


Academic Year	Paper Published in SCI	Paper Published in Scopus	Paper Published in others
2023-24	09	03	01

Details of publications


<u>S.No</u>	Faculty Name	Title of the Paper	Authors	Name of Journal	Indexing	Link to PDF Paper
1	Mukunda Vani Medala	Optimizing organically nano-fabricated Ni metal complexes for enhanced antioxidant and anticancer activity using response surface methodology,	Swathi Aleti, Savita Belwal and Mukunda Vani Medala	Future Journal of Pharmaceutical Sciences, 10, 2024	SCI, Springer	https://drive.google.com/file/d/1W9fJqo-duWp4CI9-qOju8R2yNrccn4kw/view?usp=sharing
2	Dr BVS Praveen	Sustainable synthesis of automobile fuel additive from glycerol and acetone and catalyst reusability studies	LR Jeeru, NC Pradhan, P Naveen, RK Guduru, BVS Praveen	Chemical Papers	SCI	https://drive.google.com/file/d/15Z8RKmrQ8t4FqIn7eL92cqKBz2uMphyv/view?usp=sharing
3	Dr Madhuri Pydimalla	An overview on non-wood fiber characteristics for paper production: Sustainable management approach	Madhuri Pydimalla , Hima Vamsi Chirravuri, Appala Naidu Uttaravalli	Elsevier-Materials Today: Proceedings	Scopus	https://www.sciencedirect.com/science/article/abs/pii/S2214785323045479


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4	Dr Raj Kumar Verma	Experimental Visualization of Mass Transfer from a Slug Bubble During Co-Current Flow in a Conventional Channel	Rohilla, L., Prakash, R., Verma, R.K	Chemical Engineering Science	SCI	https://drive.google.com/file/d/18StGaRUfMfw13OuBA0K4BjluZ1k_1BV/F/view?usp=sharing
5	Dr Mallaiah Mekala	Experimental investigations of the production of methyl acetate in batch catalytic distillation process in the presence of Indion 180	Mallaiah Mekala , Sunil Kumar Thamida	International Journal of Chemical Technology	SCI	https://or.niscepr.res.in/index.php/IJCT/article/view/5208
6	Dr Mallaiah Mekala, Dr Prasad Babu Koorla	A review on the biodiesel production: Selection of catalyst, Pre-treatment, Post treatment methods	Sai Mani Yogesh Kosuru, Yashraj Delhiwala, Prasad Babu Koorla, Mallaiah Mekala	Green Technologies and Sustainability	UGC	https://www.sciencedirect.com/science/article/pii/S2949736123000544
7	Dr Mallaiah Mekala, Dr Prasad Babu Koorla	Experimental studies of a continuous catalytic distillation column from startup to steady state for the production of methyl acetate	Mallaiah Mekala	International Journal of Chemical Reactor Engineering	SCI	in press
9	Dr Madhuri Pydimalla, Dr Raj Kumar Verma	Biodiesel production from blended feedstocks and by-product utilization for achieving sustainability	Sadia Husaini , Akshara Kadire , Raj Kumar Verma, Madhuri Pydimalla	Elsevier-Materials Today: Proceedings	Scopus	https://www.sciencedirect.com/science/article/pii/S2214785324004115?dgcid=author
8	Dr Rupam Sinha,	Design of Aluminum Doped ZnO/Phenyl-C-Butyric Acid Methyl Ester/Tungsten Disulfide (AZO/PCBM/WS ₂) Heterojunction-Based Device for Applications in	Rupam Sinha,	Langmuir	SCI	https://doi.org/10.1021/acs.langmuir.4c00251



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		Solar Cells and Broadband Self-Powered Photodetectors				
10	Dr Mallaiiah Mekala	Multi Objective Optimization using Non-Dominated Sort Genetic Algorithm with Artificial Neural Network for Reactive Dividing Wall Column	SR Kavitkar, M Mekala, S Suranani	Theoretical Foundations of Chemical Engineering 57 (4), S121-S130	SCI	https://link.springer.com/article/10.1134/S0040579523070096
11	Dr Raj Kumar Verma	Experimental Interfacial Reconstruction and Mass Transfer Modelling of a Slug Bubble During Co-current Flow in a Millimetric Tube	Rohilla, L., Prakash, R., Verma, R.K., Das, A.K.	Conference Paper, Fluid Mechanics and Fluid Power	Scopus	https://doi.org/10.1007/978-981-99-6074-3_68
12	Dr.B.Ganesh	Optimization of value-added products using response surface methodology from the HDPE waste plastic by thermal cracking	<u>Ganesh Botla</u> , <u>Praveen Barmavatu</u> , <u>Michael Pohorely</u> , <u>Michal Jeremias</u> , <u>Vineet Singh</u> <u>Sikarwar</u>	Thermal Science and Engineering Progress	SCI	https://doi.org/10.1016/j.tsep.2024.102514
13	Dr.B.Ganesh	Time-varying neural networks for multi-input multi-output systems:a reactive batch distillation modeling case study	B. Ganesh,P. Naveen Kumar, M. Vamsi Teja, K. Yamuna Rani	Neural Computing and Applications	SCI	https://doi.org/10.1007/s00521-024-09556-7(0123456789().,-volV)(0123456789().


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3. Book Chapters published in the Academic Year 2023-24


Sl. No.	Faculty Name	Name of the Author/s	Title of the Book/Book Chapter	Name of the publisher	Insert Link of proof of Book/ Book Chapter
1	Dr Mallaiah Mekala	Mallaiah Mekala, Srinath Suranani	Reactive Distillation & Reactive Separations (Process Intensification for Chemical and Biotechnology Industries)	Elsevier	https://www.sciencedirect.com/science/article/abs/pii/B9780323951777000035
2	Dr M. Mukunda Vani	M. Mukunda Vani, D. shruthi Keerthi, R. Prasanna Rani	Green synthesized nanomaterial coatings for high performance electrodes, Functional Coatings: Innovations & Challenges	John Wiley & Sons, Inc., NJ, USA,	https://www.wiley.com/en-in/Functional+Coatings%3A+Innovations+and+Challenges-p-9781394207275
3	Dr M. Mukunda Vani	M. Mukunda Vani, D. shruthi Keerthi, R. Prasanna Rani	"CONVERTING PLASTIC WASTE INTO BUILDING MATERIALS: POLY BRICKS ", accepted , June 2023.	Springer Nature Singapore Pte Ltd	https://link.springer.com/book/10.1007/978-981-99-7552-5
4	Dr M. Mukunda Vani	Vamsi Chirravuri, M. Mukunda Vani, P.V. Naga Prapura	Book Chapter title: Use of banana stalks for biofertilizers production (as part of the Book titled "From Waste to Wealth")	Springer Nature Singapore Pte Ltd	https://www.booktopia.com.au/from-waste-to-wealth-raj-kumar-arya/book/9789819975518.html
5	Dr. Prasanna Rani R	V. Sravani Sameera, A.V.Raghavendra Rao, R. Srividya, Karuna B, R. Prasanna Rani	Ch 28 titled "FROM FARM TO FUEL: ANIMAL-BASED BIOENERGY AND BIO PRODUCTS ", accepted, June 2023.	Springer Nature Singapore Pte Ltd	https://link.springer.com/book/10.1007/978-981-99-7552-5
6	Dr BVS Praveen, Dr Raj Kumar Verma	B.V.S. Praveen, Raj Kumar Verma, Appala Naidu Uttaravalli, Bhanu	Stimuli-responsive polymer nanocomposite films and coatings	Elsevier	https://www.sciencedirect.com/book/9780443191398/polymer-nanocomposite-films-and-coatings


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		Radhika G., Sai Narender Sakhamudi			
7	Dr B Ganesh, Dr BVS Praveen	A V Raghavendra Rao, R Sri Vidya, V Sravani Sameeria, Bhaskar Bethi, KSNV Prasad, T Srinivas, B Ganesh, BVS Praveen	Chapter 12 Safety first: managing hydrogen in production, handling, and applications	De Gruyter	https://doi.org/10.1515/9783111246475
8	Dr Raj Kumar Verma	Vishnu A Gite, Raj K Verma, Ratna S Katiyar	Molecular Mechanisms in Drug Delivery	Springer Nature Singapore Pte Ltd	https://doi.org/10.1007/978-981-99-9617-9_10

4. Conference Publications


Sl. No.	Name of the Author/s	National / International	Date of conference from and to	Name and Details of the Conference	Title of the paper	Proof of Conference paper
1	S. Kalyan Sai, Prasanna Rani R, S. Ambika	International	Sept. 2023	Asia-Oceania Sonochemical Society - 2023	From Source to solution: A comprehensive review on methods and materials for CO2 removal from diverse sources	https://drive.google.com/file/d/13ZQW4yQxDMUNL-MpEM34Fr4goJqELNqS/view?usp=drive_link
2	Nissy, Mounisha, Dr P V Naga Prapurna, Prasanna R. Redapangu	National	Sept. 2023	19th Annual Session of Students' Chemical Engineering Congress - SCHEMCON 2023,	MEA Fabrication and testing for high temperature fuel cell	https://drive.google.com/file/d/11jfw-htnZMfHLLCDz338wK1Bf_ykU32/view?usp=sharing


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				Department of Chemical Engineering, Kongu Engineering College, Coimbatore		
3	Laalasa Kunapareddy, Joju Sabu Mathew, Ramya Sanam, Mukunda Vani, Shaik Basha, P. V. Naga Prapura	National	18-11-2023	5th Research Day, Organised by R&D Centre, CBIT, Hyderabad	Degradation of DOP-HCL from solutions using a metal-organic framework.	https://drive.google.com/file/d/1tF7HnyvrJdOoBDIvrXDjFXcyyEo7DUIN/view?usp=drive_link
4	P. Mahathi Reddy, Joju Sabu Mathew, Ramya Sanam, P. V. Naga Prapura, Shaik Basha, Mukunda Vani	National	18-11-2023	5th Research Day, Organised by R&D Centre, CBIT, Hyderabad	Degradation of Mefenamic Acid from wastewater through the utilization of a Metal-organic framework	https://drive.google.com/file/d/1bJJXcfpmRmzxDbAZHxdLUiLvbede8rQr/view?usp=drive_link
5	AmayVanneldas, GaddeRupesh, DhanushChengal and Dr. R. Prasanna Rani	National	18-11-2023	5th Research Day, Organised by R&D Centre, CBIT, Hyderabad	A sustainable innovation model of Bioplastics from Banana peel: An RSM design	https://drive.google.com/file/d/1O-zLXdKvXabK96XoU6gN1claoDeedWHp/view?usp=sharing
6	Sai Kumar, Syed Sayeeduddin Ahmed, Praneeth, Dr. Prasanna Rani R	National	18-11-2023	5th Research Day 2023, CBIT - 18th November, 2023	Blossoming Solutions: Floral Waste Bioadsorbents for Sustainable Environmental Management	https://drive.google.com/file/d/1w5QaeUjCi1e12M5tFKZIoCT7Bn3zlh4/view?usp=sharing


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7	Byri Harini, Usha Sri, Dr. Prasanna Rani R	National	18-11-2023	5th Research Day 2023, CBIT - 18th November, 2023	Shell to Shelf: Sustainable Bioplastics from Egg Shells	https://drive.google.com/file/d/19gIj1iokT9r8_epfHsfpTAUoy_cBSiKQD/view?usp=sharing
8	Armaan Shaik, G. Venkat Pavan, Dr. Prasanna Rani R	National	18-11-2023	5th Research Day 2023, CBIT - 18th November, 2023	Role of Nano-Technology in Advancing sustainable Energy Solutions	https://drive.google.com/file/d/13bphYMd_bmUZcNN4IPpT_AYWZidRoC13M/view?usp=sharing
9	Priyanka Santhi M, Preethi Bollam, Prasanna R. Redapangu	International	24-11-2023 to 25-11- 2023	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE- 2023), NIT Warangal, 24-25 Nov. 2023	Extraction of essential oils and dyes from Floral Waste: Way to Sustainability	https://drive.google.com/file/d/1XuRoWmQ0_TZLh9ZiGnL0lGnSkLk50F4R/view?usp=sharing
10	Prasanna R. Redapangu, Amay Vanneldas, G. Rupesh, C. Dhanush, K. Manvitha, N. Sailaja, Kiros Birhane	International	24-11-2023 to 25-11- 2023	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE- 2023), NIT Warangal, 24-25 Nov. 2023	Synthesis & Optimization of Biodegradable plastic films Production Parameters Using Response Surface Methodology	https://drive.google.com/file/d/1NMNuGileRhdzDrAmxBQiFBRhDhOOuU1a/view?usp=sharing


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11	Pranay Kumar T, K Chandrakanth Reddy, B Nithesh, SK Jhubair Ali, Dr. P V Naga Prapurna, S Srinath, G Uday Bhaskar Babu	International	24-11-2023 to 25-11-2023	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2023), NIT Warangal, 24-25 Nov. 2023	Vapor recompression in Reactive Distillation for Production Biodiesel to Reduce Energy	https://drive.google.com/file/d/1zDS0UyA2JgHBRJIzfmsUGtDEA24GR1-s/view?usp=sharing
12	Prasanna R. Redapangu, Amay Vanneldas, G. Rupesh	National	27-12-2023 to 30-12-2022	IICHe-CHEMCON 2023 on “Energy Transition: Challenges & Opportunities” organised by Heritage Institute of Technology, Kolkata.		-
13	Mahathi Reddy, Joju Sabu Mathew, Ramya Sanam, P.V. Naga Prapurna, Shaik Basha, Mukunda Vani	International	27-12-2023 to 30-12-2023	IICHe-CHEMCON 2023 on “Energy Transition: Challenges & Opportunities” organised by Heritage Institute of Technology, Kolkata.	Analysing the efficiency of basolite for mefenamic acid degradation in pharma waste using HPLC method	https://drive.google.com/file/d/16YNIwttJ-aoDEBGZN0jZ_vrguKnxO0kf/view?usp=drive_link
14	Laalasa Kunapareddy, Joju Sabu Mathew, Ramya Sanam, Mukunda Vani, Shaik	International	27-12-2023 to 30-12-2023	IICHe-CHEMCON 2023 on “Energy Transition: Challenges & Opportunities”	Studies on the removal of dopamine from wastewater using a metal-organic framework	https://drive.google.com/file/d/18c75d4qt8_WDTLH1u0-WdMksF93AFFtL/view?usp=sharing


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	Basha, P.V. Naga Prapura			organised by Heritage Institute of Technology, Kolkata.		
15	Prasad Babu K , Nishita Reddy	International	27-12-2023 to 30-12-2022	IChE-CHEMCON 2023 on “Energy Transition: Challenges & Opportunities” organised by Heritage Institute of Technology, Kolkata.		
16	Yash Raj Delhiwala, Sai Mani Yogesh Kosuru, Prasad Babu Koorla, Mallaiah Mekala	International	27-12-2023 to 30-12-2022	IChE-CHEMCON 2023 on “Energy Transition: Challenges & Opportunities” organised by Heritage Institute of Technology, Kolkata.	A review on bioethanol production: First generation to third generation	-
17	Sumanth Goddenla, Harsha Pradha Kadmuru, Prasad Babu Koorla, Mallaiah Mekala	International	27-12-2023 to 30-12-2022	IChE-CHEMCON 2023 on “Energy Transition: Challenges & Opportunities” organised by Heritage Institute of Technology, Kolkata.	Development of kinetic model for the esterification of n-propionic acid and n-propyl alcohol	-


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18	Venkat sainath Reddy, Navpreet Kaur, Mallaiiah Mekala	International	27-12-2023 to 30-12- 2022	IIChE-CHEMCON 2023 on “Energy Transition: Challenges & Opportunities” organised by Heritage Institute of Technology, Kolkata.	Modelling and simulation of reactive distillation for ethyl acetate production	-
19	Ganesh B, K Yamuna Rani	International	18-12-2023 to 20-12- 2023	Ninth Indian Control Conference (ICC)	Dynamic modeling and optimal control of reactive batch distillation: an experimental case study for Methyl Acetate Production	https://drive.google.com/file/d/1x9EmoNCd1rQhJdCUh4jP8eztv3tfaN5R/view?usp=sharing
20	P. Alekhya, MSV Krishna, Prasanna R. Redpangu, Ambika. S	International	18-01-2024 to 19-01- 2024	International Conference on Science & Technology Integration for Circular Economy	Sensing the Unseen: Sensing and Remediation of Pollutants in Aqueous Solutions	https://drive.google.com/file/d/1_iLRH2HvPhiiqwaOgu28MWxrPX7P-I9U/view?usp=sharing
21	C. Dhanush, S. Kalyan Sai, Prasanna R. Redpangu, Ambika. S	International	18-01-2024 to 19-01- 2024	International Conference on Science & Technology Integration for Circular Economy	Turning Trash into Treasure: Plant and Waste- Derived Nanomaterials for Agricultural Advancement	https://drive.google.com/file/d/1yMuPjHg6jNgoUNOUpanhSbcgAjbUtGKC/view?usp=sharing


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22	I. Nissy Kiranmai	International	12-01-2024 - 14-01-2024	International Conference on “Macromolecules: Synthesis, Morphology, Processing, Structure, Properties and Applications (ICM-2024)”	Polymer Panorama in Medicine: A Closer Look at Biomedical Applications	
23	D. Shruthi Keerthi, M Mukunda Vani, Balaji Krishna Murthy	International	24-11-2023 to 25-11-2023	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2023), NIT Warangal, 24-25 Nov. 2023	Surface Modification of Pencil Graphite Electrodes for Enhanced Energy Applications using Green Synthesis	https://drive.google.com/file/d/1r_SOTM2JobBqKl8_5QqpPo4fmU4laakD/view?usp=sharing
24	Anvith Reddy S, Vara Prasad D, M Mukunda Vani	National	22nd Sept 2023-23rd Sept 2023	19th Annual Session of Students’ Chemical Engineering Congress, SCHEMCON-2023	Measuring The Air Core Diameter Of Operating HydroCyclone Using Edge Detection Technique (Image Processing)	https://drive.google.com/file/d/11FnRvaAdmay61z1wsM7_Og5i5AVOoukD/view?usp=sharing
25	MVS Krishna, Sathwika, M Mukunda Vani	National	27-12-2023 to 30-12-2022	IICHE-CHEMCON 2023 on “Energy Transition: Challenges & Opportunities” organised by Heritage		https://drive.google.com/file/d/10MT82TcBjxtZY4e_qt4q-82mp39jleYa/view?usp=sharing


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				Institute of Technology, Kolkata.		
26	Mahathi Reddy, Joju Sabu Mathew, Ramya Sanam, P.V. Naga Prapurna, Shaik Basha, Mukunda Vani	International	27-12-2023 to 30-12-2023	IICHE-CHEMCON 2023 on "Energy Transition: Challenges & Opportunities" organised by Heritage Institute of Technology, Kolkata.	Analysing the efficiency of basolite for mefenamic acid degradation in pharma waste using HPLC method	https://drive.google.com/file/d/16YNIwtJ-aoDEBGZN0jZ_vrguKnXO0kf/view?usp=drive_link
27	Amulya Pathuri, Abhitha Suggala, Aman Dubey, BVS Praveen, Madhuri Pydimalla	International	February 17-18, 2024	2nd International conference on "Novel Materials and Technologies for Energy and Environment Applications"	A Comparative Study of Bioplastic Sheets from Floral Waste with Different Plasticizers to Promote Environmental Sustainability	https://drive.google.com/file/d/1NG8Sm0D-pDIgMCid36oBhzbesj6twEic/view?usp=sharing
28	Sadia Husaini, Akshara Kadire, Raj Kumar Verma, Madhuri Pydimalla	International	February 17-18, 2024	2nd International conference on "Novel Materials and Technologies for Energy and Environment Applications"	Optimizing Mixed Oil Ratios for Eco-Friendly Biodiesel Production: A Sustainable Approach towards Green Energy	


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29	B Vishnu Teja, CH Nickey, BVS Praveen, P. Madhuri	International	February 29 to March 01, 2024	Nanoscience and Nanotechnology, organized by Manipal Academy of Higher Education (MAHE)	Development and Evaluation of Bioplastic Sheets from Starch and Cellulose-Based Materials with Natural Plasticizers for Eco-Friendly Disposal	-
30	Sadia Husaini, Akshara Kadire, Raj Kumar Verma, Madhuri Pydimalla	International	Nov. 23-25, 2023	3rd International Conference on Materials Science & Engineering (ICMSE)	Biodiesel Production from Blended Feedstocks and By-product Utilization for Achieving Sustainability	-
31	Anvith Reddy, Vara Prasad, M Mukunda Vani	National	April 18-20, 2024	Catalysis 2k24 under Technosmania 2k24, A National level techno cultural fest, Department of Chemical Engineering, University College of Technology, Osmania University, Hyderabad	High Performance H2 Production using SESMR Process	
32	Udesh Salver, Omesh, M Mukunda Vani	National	April 18-20, 2024	Catalysis 2k24 under Technosmania 2k24, A National level techno cultural fest, Department of Chemical Engineering, University College of Technology,	A Sustainable approach through pyrolysis for converting polymers to ecofriendly Biofuels	


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				Osmania University, Hyderabad		
33	Sathwika, Abhinay, M Mukunda Vani	International	April 5-6, 2024	International conference on Sustainable Research Energy and Environment (SREE- 2024), Department of Chemical Engineering and Centre for Energy and Environment, Dr B R Ambedkar National Institute of Technology, Jalandhar	Synthesis of Green Nanoparticles applications in Microbial Fuel Cell	
34	Udesh Salver, Omesh, M Mukunda Vani	International	April 5-6, 2024	International conference on Sustainable Research Energy and Environment (SREE- 2024), Department of Chemical Engineering and Centre for Energy and Environment, Dr B R Ambedkar National Institute of Technology, Jalandhar	Pyrolysis of Polymers To Alternate Fuels Using Effective Equipment And Procedures	


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35	Sai Sriya, Anjali, M Mukunda Vani	International	February 17- 18, 2024	2nd International conference on Novel materials and Technologies for Engineering for Engineering and Environment applications NMTE2A- 2024. BITS Pilani, Hyderabad Campus	Isolation of Bioactive Molecules using Pathimugam.	
36	Sailaja, Prashanth, M Mukunda Vani	International	February 17- 18, 2024	2nd International conference on Novel materials and Technologies for Engineering for Engineering and Environment applications NMTE2A- 2024. BITS Pilani, Hyderabad Campus	Green Treatment Approaches for Heavy Metals Contaminated Soil: Semantic Analysis of 28 Years Data – Part I”.	
37	Mahathi, Lalasa, Ramya Sanam, M Mukunda Vani, Naga Prapurna	International	February 17- 18, 2024	2nd International conference on Novel materials and Technologies for Engineering for Engineering and	Degradation of DOP-HCl from solutions using a metal organic framework	


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				Environment applications NMTE2A-2024. BITS Pilani, Hyderabad Campus		
38	Mahathi, Lalasa, Ramya Sanam, M Mukunda Vani, Naga Prapurna	International	February 17-18, 2024	2nd International conference on Novel materials and Technologies for Engineering for Engineering and Environment applications NMTE2A-2024. BITS Pilani, Hyderabad Campus	Degradation of Mefenemic acid from wastewater through the utilization of a Metal organic framework	
39	Shravya, Jyothi, M Mukunda Vani	International	February 17-18, 2024	2nd International conference on Novel materials and Technologies for Engineering for Engineering and Environment applications NMTE2A-2024. BITS Pilani, Hyderabad Campus	A review on potential application of bio-based cellulose nanocrystals (CNC) for the removal of particulate matter	


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40	D Shruthi Keerthi, Balaji Krishnamurthy, M Mukunda Vani	International	24-11-2023 to 25-11- 2023	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE- 2023), NIT Warangal, 24-25 Nov. 2023	Surface Modification of Pencil Graphite Electrodes for Enhanced Energy Applications using Green Synthesis	
41	Shruthi Ravinder, Shanmukhi, Mukunda Vani	National	18-11-2023	5th Research Day, Organised by R&D Centre, CBIT, Hyderabad	Engineering Chemicals in cosmetics and personal care products	
42	Anvith Reddy, Vara Prasad, M Mukunda Vani	National	September 22-23, 2023	19th Annual Session of Students Chemical Engineering Congress (SCHEMCON 2023), IChE Students Chapter, Kongu Engineering College, Perundurai in Association with IChE- CRC, Coimbatore	Measuring The Air Core Diameter Of Operating Hydro Cyclone Using Edge Detection Technique (Image Processing) Best Paper Award	
43	Nishitha, Ramya Sanam, M Mukunda Vani, Naga Prapurna	National	September 22-23, 2023	19th Annual Session of Students Chemical Engineering Congress (SCHEMCON 2023), IChE Students Chapter,	Studies on the removal of phosphorus from wastewater using a metal- organic framework	


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				Kongu Engineering College, Perundurai in Association with IChE-CRC, Coimbatore		
44	Allika, Shruthi, I Balakrishna, M Mukunda Vani	National	September 22-23, 2023	19th Annual Session of Students Chemical Engineering Congress (SCHEMCON 2023), IChE Students Chapter, Kongu Engineering College, Perundurai in Association with IChE-CRC, Coimbatore	Quenching Of Paraformaldehyde From Clopidogrel Bisulphate	

5. Faculty acted as Resource person


Sl. No.	Faculty Name	Event in which acted as resource person	Role	Name and Details of the events	Insert Link of proof of Certificate
1	Dr. Prasanna Rani R	INCEEE-2023	Session Chair	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2023), NIT Warangal, 24-25 Nov. 2023	https://drive.google.com/file/d/1ykbNg77Wt7Vt2xL4NDsnW5zn-leWp_vD/view?usp=sharing
2	Dr. P.V. Naga Prapurna	INCEEE-2023	Session Chair	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2023), NIT Warangal, 24-25 Nov. 2023	https://drive.google.com/file/d/19F1dz8lKmtsAfpcsvqYMU8EiwgF-0dVA/view?usp=sharing


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3	Dr. M Mukunda Vani	INCEEE-2023	Session Chair	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2023), NIT Warangal, 24-25 Nov. 2023	https://drive.google.com/file/d/1hGHyLqM4J9gp6X2y10T4ZzwD-CXO9np8/view?usp=sharing
4	Dr. P.V. Naga Prapurna	State Board of Technical Education & Training, Telangana, Hyderabad.	Appointed as Advisor member for Diploma in Chemical Engineering (CH) team.	Preparation of C-24 Curriculum, gap analysis for C-21 with respect to CO PO Mapping along with the structure of the new Curriculum.	https://drive.google.com/file/d/1fHA03zpNT6MYUq8fQlnY-uIPd1FI-H61/view?usp=sharing
5	Dr BVS Praveen	INCEEE-2023	Session Chair	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2023), NIT Warangal, 24-25 Nov. 2023	https://drive.google.com/file/d/1wrDhL2vfhiElq5K57J3j1V5m-PTT0D6W/view?usp=drive_link
6	Dr Raj Kumar Verma	INCEEE-2023	Session Chair	3rd International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2023), NIT Warangal, 24-25 Nov. 2023	https://drive.google.com/file/d/1VoxEJPlx6MynFAqYbF47bueXV-sSIMU1/view?usp=sharing
7	Dr BVS Praveen	FDP	Resource Person	Current Science and Development in nanobiotechnology	https://drive.google.com/file/d/1IOIL0ns3arYSAh5SYYBtRkBE0r2iv5IM/view?usp=sharing
8	Dr BVS Praveen	FDP	Resource Person	AI Tools for Engineering and Technology	https://drive.google.com/file/d/1OpMwzQjVHODFNmmZ03NKwvIH9NB_rIb0/view?usp=drive_link


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9	Dr. Prasanna Rani R	FDP	Resource Person for 1 session	One- week Online Faculty development program on "Empowering Educators: AI Tools for Engineering and Technology" organized by the Department of Chemical Engineering, CBIT Hyderabad.	https://drive.google.com/file/d/1MkQJ8ypkF4_2qFj_BZXn0P0KTV6V_JAR/view?usp=sharing
10	Dr. Prasanna Rani R	IIC Event	Speaker	Speaker for National Youth Day Event - Youth and Innovation	https://drive.google.com/file/d/1KQCZIULAA0W5Y_RamnFNQHKfKRGmNYe0/view?usp=sharing
11	Dr. Prasanna Rani R	ACIC-GRIP Program	Evaluator	ACIC-GRIP Program	https://drive.google.com/file/d/1EqnOKsQet6Cj_Nmnan8UXjDFyWRl_6Jb/view?usp=sharing
12	Dr. M Mukunda Vani	Training Program	Guest speaker	Newly Recruited GP A Officers (Probationers) of Military Engineer services, Conducted by Engineering staff college of India (ESCI), Hyderabad, 4 th -23 rd December 2023	https://drive.google.com/file/d/19d72TFk7fuGBqkRFEukg7JLTyvWzaBQo/view?usp=sharing
13	Dr. M Mukunda Vani	Training Program on Enforcement of Act and Rules	Guest speaker	Newly Recruited GP A Officers (Probationers) of Military Engineer services, Conducted by Engineering staff college of India (ESCI), at Lakshadweep, 19-21 March 2024	https://drive.google.com/file/d/1zndc9pldqzNRKMaSifwYVhdXOTupgwQ/view?usp=sharing
14	Dr. M Mukunda Vani	Walk-in Interview against CSIR-IICT Notification	Member of Selection Committee for the	Walk-in Interview against CSIR-IICT Notification No. 06/2024, May 2, 2024	https://drive.google.com/file/d/12SSlhmvs2vFIo_GGWbOejd_kjrCerTqG/view?usp=sharing


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15	Dr. M Mukunda Vani	Walk-in Interview against CSIR-IICT Notification	Member of Selection Committee for the	Walk-in Interview against CSIR-IICT Notification No. 07/2024, June 12, 2024	https://drive.google.com/file/d/10WT0XD1uvrV4nvhgDa5aSTNaYQ68QW7U/view?usp=sharing
16	Dr. M Mukunda Vani	AOSS-5, 2023	Session Chair	Asia Oceania Sono Chemical Society 2023, NIT Warangal, 28-30 September. 2023	https://drive.google.com/file/d/1hNMMOWaOPdrOgdbEEaAWWAuHBGVJP-_A/view?usp=sharing
17	Dr. M Mukunda Vani	IChE-Chemcon 2023	Session Chair	AN International Conference on Energy Transition: challenges and opportunities, Heritage Institute of Technology, Kolkata, December 27-30, 2023	https://drive.google.com/file/d/15zcTURTCaV0Too4BTaonqcNnqsNgYN5/view?usp=sharing
18	Dr. M Mukunda Vani	National Workshop	Delegate	CSIR-NEERI, Hyderabad, 06-10-2023	https://drive.google.com/file/d/1CZ_5v9jqCwP0gIf38PyLyXtJmO4DItQR/view?usp=sharing

6. FDP/Workshop/Seminar attended by Faculty


Sr. No.	Faculty Name	Event Name	Date of event from and to	National / International	Name and Details of the Conference	Insert Link of proof of Certificate
1	Dr. Rupam Sinha	Faculty Development Program (online)	12-06-2023 to 16-06-2023	National	Inculcating Universal Human Values in Technical Education, organized by AICTE, New Delhi	https://drive.google.com/file/d/1MskkyZ6p8aaJTbtArJx3jTxfinf09QUT/view?usp=sharing


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2	Dr. P.V. Naga Prapurna	Faculty Development Program (online)	21-08-2023 to 25-08-2023	National	Recent Trends in Exergy and Sustainability" IChE Students' Chapter, School of Chemical Engineering, MITAoE, Alandi (D), Pune	https://drive.google.com/file/d/1dmjaqM4npyrW5mYaTZTiiMXEP8NEhnpV/view?usp=sharing
3	Dr. P.V. Naga Prapurna	Faculty Development Program (online)	28-08-2023 to 01-09-2023	National	Industrial Waste Water Management (IWWM-2023), organised by Department of Chemical Engineering, inAssociation with IQAC, Haldia Institute of Technology, Haldia, West Bengal, India.	https://drive.google.com/file/d/1aETfShC1WAs_ybBwiSOvoZq1vPjiqFjc/view?usp=sharing
4	Dr. P. Madhuri	Faculty Development Program (online)	28-08-2023 to 01-09-2023	National	Industrial Waste Water Management (IWWM-2023), organised by Department of Chemical Engineering, inAssociation with IQAC, Haldia Institute of Technology, Haldia, West Bengal, India.	https://drive.google.com/file/d/11H2Q3jymzGj7lsq-oCfeJ7L_upWfPjU/view?usp=sharing
5	Dr BVS Praveen	Faculty Development Program (online)	28-08-2023 to 01-09-2023	National	Industrial Waste Water Management (IWWM-2023), organised by Department of Chemical Engineering, inAssociation with IQAC, Haldia Institute of	https://drive.google.com/file/d/1ZXtrw9ZEockRJPT7pz_uL4LV2bjukB-B/view?usp=drive_link


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					Technology, Haldia, West Bengal, India.	
6	Dr. P. Madhuri	Faculty Development Program (online)	20-11-2023 to 01-12-2023	National	Data Analytics with Excel - Basics to Advanced, organized by Department of Management Studies - Dayananda Sagar College of Engineering in Collaboration with ExcelR Edtech Pvt. Ltd.	https://drive.google.com/file/d/1PoY5AkuxX3iE68FtgGiLnrZrBLzujPCL/view?usp=sharing
7	Dr. BVS Praveen	Faculty Development Program (online)	20-11-2023 to 01-12-2023	National	Data Analytics with Excel - Basics to Advanced, organized by Department of Management Studies - Dayananda Sagar College of Engineering in Collaboration with ExcelR Edtech Pvt. Ltd.	https://drive.google.com/file/d/11p6jr7HhZd3OS6mHMnIsHImj7KsY0LmJ/view?usp=drive_link
8	Dr. BVS Praveen	Faculty Development Program (online)	18-12-2023 to 22-12-2023	National	Sustainability in Process Engineering, Organized by Department of Chemical Engineering, Dr. Vishwanath Karad, MIT World Peace University, Pune, India	https://drive.google.com/file/d/16qHqrxDyUuAl7iRilsDVmzmcFXJO6kn6/view?usp=drive_link
9	Dr. Raj Kumar Verma	Faculty Development Program (online)	18-12-2023 to 22-12-2023	National	Sustainability in Process Engineering, Organized by Department of Chemical Engineering, Dr. Vishwanath Karad,	https://drive.google.com/file/d/1idal7x-VzQrtaer1syFeapZV6df3kW4t/view?usp=sharing


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					MIT World Peace University, Pune, India	
10	Dr. P.V. Naga Prapurna	e - STC (Short term course)	15-01-2024 to 19-01-2024	National	Principles of Analytical Instruments for Chemical and Environmental Engineers (PAICEE-2024), organised by Department of Chemical Engineering at NIT, Hamirpur	Certificate is to be released by organisers
11	Dr. Prasanna Rani R	e - STC (Short term course)	15-01-2024 to 19-01-2024	National	Principles of Analytical Instruments for Chemical and Environmental Engineers (PAICEE-2024), organised by Department of Chemical Engineering at NIT, Hamirpur	yet to be released
12	Dr. M Mukunda Vani	Faculty Development Program (online)	15-01-2024 to 19-01-2024	National	Principles of Analytical Instruments for Chemical and Environmental Engineers (PAICEE-2024), organised by Department of Chemical Engineering at NIT, Hamirpur	Certificate is to be released by organisers
13	Dr. P.V. Naga Prapurna	Short Term Course	08-01-2024 to 12-01-2024	National	Effective Curriculum Implementation Using Foss, organised by NITTTR, Chandigarh.	Certificate is to be released by organisers


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14	Dr. P. Madhuri	Short Term Course	08-01-2024 to 12-01-2024	National	Effective Curriculum Implementation Using Foss, organised by NITTTTR, Chandigarh.	Certificate is to be released by organisers
15	Dr. Raj Kumar Verma	Faculty Development Program (online)	28-08-2023 to 01-09-2023	National	Industrial Waste Water Management (IWWM-2023), organised by Department of Chemical Engineering, in Association with IQAC, Haldia Institute of Technology, Haldia, West Bengal, India.	https://drive.google.com/file/d/12ZWmL4mU7phRX-ImrEQCnXZ7GkIPBhjz/view?usp=sharing
16	Dr. P. Madhuri	Faculty Development Program (online)	22nd - 27th January 2024	National	"Quality Education through OBE", organized by CBIT in association with IEEE Education Society Student Branch Chapter during January 2024.	https://drive.google.com/file/d/1CBWC0B63y8-Ig3wpW_DAWgDnmqqHfCsO/view?usp=sharing
17	Dr. P. Madhuri	Faculty Development Program (online)	20th Nov to 1st Dec 2023.	National	Data Analytics with Excel - Basics to Advanced organized by Department of Management Studies - Dayananda Sagar College of Engineering in Collaboration with ExcelR Edtech Pvt. Ltd.	https://drive.google.com/file/d/1PoY5AkuxX3iE68FtgGiLnrZrBLzujPCL/view?usp=sharing
18	Dr. M Mukunda Vani	One week self sponsored short term course	1 to 5 June 2023	National	Advances in Energy and Environment for sustainable development (AEESD 2023) organized by Department of Chemical Engineering and Center for	https://drive.google.com/file/d/1L3yMTNOWh0IDuE77-zAtZ2jSQUAbK64G/view?usp=sharing


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					Energy and Environment, Dr B R Ambedkar National Institute of Technology, Jalandhar,	
19	Dr. M Mukunda Vani	Three day In-house MATLAB training programme	3rd -5th July 2023.	National	Simulink, HDL code generation, Medical Imaging, Optimization, Electric Vehicle, Machine and Deep Learning Toolboxes organized by Department of ECE and EEE, Chaitanya Bharathi Institute of Technology, Hyderabad	https://drive.google.com/file/d/1LFT9saWjFWoHe7us6uYjGDEqxOtUgGwf/view?usp=sharing
20	Dr. M Mukunda Vani	One Week International Short Term Training Program (Online)	09 - 13 October, 2023.	International	Recent Advancements in Fuel Cell and Hydrogen Storage, Department of Mechanical Engineering, Anurag University, in Collaboration with Centre for New Energy Transition Research, Federation University Australia	https://drive.google.com/file/d/1MRMWOMA_jcDY6Eq85OYH7lc0Q_rty0iq/view?usp=sharing
21	Dr. M Mukunda Vani	One day National Workshop	06 Oct, 2023	National	“Environmental Challenges in Pharmaceutical Industries: A Sustainable Management Approach” organized by CSIR-NEERI, Hyderabad	https://drive.google.com/file/d/1CZ_5v9jqCwP0gIf38PyLyXtJmO4DItQR/view?usp=sharing
22	Dr. M Mukunda Vani	Expert Talks	23 Sep, 30 Sep, 14 Oct, 2023	National	CBIT R& D team	https://drive.google.com/file/d/1mq99txyTHtE3T27PNIUUUpdRhvJCzCP/view?usp=sharing


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23	Dr. M Mukunda Vani	Two week Yoga training programme in view of 9th International Day of Yoga	29th May -10th June 2023	National	Yoga training and practice daily	https://drive.google.com/file/d/1uOqw2kCDXorNt1obFPbeKo9GqgcqO0_K/view?usp=sharing
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7. Awards won by the faculty

- 1) Dr. M Mukunda Vani received Best Researcher Award For the Contribution and Honourable Achievement in Innovative Research in 10th Edition of International Research Awards on Advanced Nanomaterials And Nanotechnology (September 2023)
- 2) Dr. P.V. Naga Prapurna, won the "Best Inspiring Teacher" award, Instituted by Knowledge Research Academy, International Award Ceremony on Academic Achievers in Higher Educational Institutions (AAHEI 2023), Coimbatore, Tamil Nadu
- 3) Dr. Prasanna Rani R won the "Best Faculty" award, Instituted by Knowledge Research Academy, International Award Ceremony on Academic Achievers in Higher Educational Institutions (AAHEI 2023), Coimbatore, Tamil Nadu
- 4) Dr BVS Praveen won the "Best Researcher Award" in an International Award Ceremony on Academic Achievers in Higher Educational Institutions organized by Knowledge Research Academy Coimbatore, Tamil Nadu, India.
- 5) Dr Raj Kumar Verma won the "Best Young Researcher Award" in an International Award Ceremony on Academic Achievers in Higher Educational Institutions organized by Knowledge Research Academy Coimbatore, Tamil Nadu, India.
- 6) Dr. P. Madhuri won "Best Young Researcher Award" from Novel Research Academy for academic contribution in Science & Technology under the category of "Chemical Engineering" Specialization.
- 7) Dr. M Mukunda Vani received Best Presentation Award at International conference on Sustainable Research Energy and Environment (SREE-2024)
- 8) Dr. M Mukunda Vani received Best Paper Award at 19th Annual Session of Students Chemical Engineering Congress (SCHEMCON 2023), organized by IChE Students Chapter, Kongu Engineering College, Perundurai in Association with IChE-CRC, Coimbatore
- 9) Dr. M Mukunda Vani received High Appreciation for significant contributions to IChE-HRC at Indian Institute of Chemical Engineers, Hyderabad Regional Centre on 29th July 2023.


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