

Name: Dr.P. PADMAVATHI
Designation: Assistant Professor
Department: Humanities and Sciences
Mail.I.D: padmavathi_p@vnrvjiet.in
Experience (in years): Teaching: 30yrs, Research: 06 Others (If any, Specify):



1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D	JULY 2016	Environmental Science and Technology
3	M.Sc	1992	Organic Chemistry
4	B.SC	1989	Chemistry

2. Teaching and Learning:

2.1 Teaching Interests:

- Engineering Chemistry, Organic Chemistry, Environmental Chemistry, Instrumental Methods of Analysis,

2.2 Novel Teaching & Learning Techniques adopted:

- Concept maps
- Mind maps
- Cross-Word,
- Word Search
- Cheat Sheet
- Match the following
- Word Scramble
- POGIL
- **Course era and NPTEL courses in the following subjects**
 - Principles of Effective teaching in Engineering practices
 - Principles and applications of NMR spectroscopy
 - Design thinking
 - Mindfulness
 - AI for everyone
 - Covid practices

2.3 Involvement in curriculum updating / Design:

Participated in the I.B.Tech Engineering chemistry and Chemistry of Engineering Materials curriculum design as BOS member .

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

- Mentoring students
- Learning all the novel methods of teaching.
- Music
- Sports

3.2. CCA/ECA Organized:

- Organized Fist full of Rice event in April 2023
- Organized Blood donation camp in March 2023 in association with Lions club International and NTR Trust.
- Organized blood donation camp in March 2022
- Organized SARAADHI programme at VNRVJIET during Convergence 2018 and 2019 and 2020 and 2021 at VNRVJIET.
- Organized Blood donation camp at VNRVJIET and collected 250 units of blood from 250 students and faculty in 2018 and December 2019
- Organized clay Ganesh distribution in August and diya distribution in October 2018 and 2019 at VNRVJIET
- Organized NSS special camp at Reddipalli and Manthur in 2017
- Organized Digidhan parigyan programme on cashless transactions at VNRVJIET in 2017
- Organized VISAKHA an awareness programme on cashless transactions at Suraram village in 2017
- Organized Road safety day program at VNRVJIET in 2017

3.3. CCA/ECA participated:

3.4. Counseling and Mentoring Activity:

3.5. Committees involved in:

Department level:

- Academic coordinator
- NBA coordinator

Institute Level:

- VNRVJIET-BOS member
- NSS Programme officer UNIT-1
- UBA coordinator
- Faculty in charge for Art of living club
- Restart manual committee member

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted:

Workshops

- Organized an STTP program on the topic “Novel materials in energy storage devices for environment and health care applications” sponsored by AICTE and JNTUH from 24th January to 31st January 2022.
- Organized road safety awareness program in December 2021.

- Organized Leadership Boot camp along with VNRSF in February 2020.
- Organized Hands on training workshop on solar study lamp sponsored by MHRD INDIA, and IIT Bombay on 24th September 2019.
- Organized a Guest lecture on :Role of Material in Mechanical Engineering” for I.B.Tech Mechanical engineering students, by K.radhaKrishna Shastry ,Manager ,HAL,Hyderabad ,on 27th February 2018.
- 3-day workshop on “Engineering the Education scenario towards a Learner Centric Environment” from 4th to 6th August in 2014 at VNRVJIET.
- Nano Technology – The Present and Future aspects on 5th April 2010.
- A Two day Workshop on “Faculty Orientation in Engineering Chemistry” on 24th – 25th September,2010, at VNR Vignana Jyothi Institute of Engineering and Technology.
- Organized a guest lecture on carbon nanotubes and applications by U.Padmaja at VNRVJIET IN 2011.
- Organized a guest lecture on Nano Technology and applications by Dr. Ramdevudu at VNRVJIET IN 2010.

4.2Attended:

- Attended a two day webinar on "Fermentation: Interplay of Microbes, Immunity & Nutrition" scheduled on February 03-04, 2023. By BIRAC's BioNEST Bioincubator Facility (B3I) North-Eastern Hill University, Tura Campus,Tura, Meghalaya - 794002
- Attended International Conference on multifunctional Materials Organized by Githanjali College of Engineering and Technology –Hyd from 22nd -24th December-2022.
- One week FDP course on Lead Audit course from September 26th to 30th September 2022
- One week FDP on Recent Advancements in Machine Learning & Deep Learning organized by VNR CSI SC from 26th April to 30th April 2021.
- Attended the launching programe on Energy and Climate Keep UPP Program on April 22nd April 2021 organized by Energy Swaraj foundation .
- Invited as key note speaker for the National science day celebration by Gaudium International school ,Kollur Hyderabad on 19th march 2021.
- One Week International FDP on "LATEST TRENDS IN ENGINEERING, SCIENCE AND TECHNOLOGY: NANOMATERIALS" Organized by Department of Chemistry, Lendi Institute of Engineering and Technology, Vizianagaram, from 10-15, August 2020.
- Participated in in **5 day online FDP** program on “**Role of Materials Science in Engineering; Applications Perspective** .organized by,Dept Of Physics and Chemistry by MGIT college hyderabad from August 3rd to 7th 2020.
- Participated in a **6 day FDP** on Recent developments in “Chemical Research for societal Applications” from 3rd August to 8 th august 2020 organized by Dept of Chemsitry ,Yogi Vemana University, Kadapa.
- Participated in **One week** STTP programe organized by JNTUH on “Synthesis, Characterization and its Applications of Nanomaterials” from 24th to 29th august 2020.

- Actively participated in the Three Day FDP on “ Role of Technology Institutes: In Rural Areas for Livelihood and ATMNIRBHAR ” Organized by the **Unnat Bharat Abhiyan**, Sathyabama Institute of Science and Technology, Chennai held on 10th July, 2020 to 12th July, 2020.
- Attended a **9 day FDP** on “Nanoscience and Technology (Energy, Environment and health care ” from 29th June to 7th July 2020 organized by Sathyabama University.
- Participated in the 3 day workshop on Enabling Self-Reliant Economy through Techno-Social Innovation in a Perspective of Post COVID19 Rural India" organized by UBA CELL Govt of India from 25th June to 27th June 2020.
- Participated a **5 day FDP** program on “Mentoring Institutional Social Responsibility and Community Engagement” organized by MHRD, Govt. Of INDIA from 8th JUNE to 12th JUNE and completed successfully.
- Successfully Completed ‘**Mentoring and Facilitation Skills for Institutional Mentors Ministry of Human Resource Development Government of India Faculty Development** Centre Mahatma Gandhi National Council of Rural Education Department of Higher Education, Ministry of Human Resource Development, Govt. of India Sponsored by Pandit Madan Mohan Malaviya National Mission on Teachers and Training Certificate June **08 - 12, 2020**
- Participated and completed successfully an FDP program on “Sustainable Development with Green Technology ,Precovid, Covid and Post covid times” from 11th June to 13th June ,2020 organized by Dept of chemistry , Anurag University.
- Participated an FDP program on “MOODLE Learning mangement System” organized by JNTUCES from 10th JUNE to 15th JUNE and completed successfully.
- Attended a webinar on “Leadership” ,A talk by Ashwin Deshpande Organized by MHRD Innovation cell on 6th June 2020.
- Participated in the Online AICTE Recognized Faculty Development Programme on Nanomaterials and Devices from 25/05/2020 to 29/05/2020 (One Week) Organized by Applied Science Department NITTTR, Chandigarh
- Attended a 3 day workshop on the topic 'Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop' organized by IIT Bombay .
- Attended a 5day workshop on “Nanomaterials and Devices”, from 25th to 29th May 2020.
- Attended and completed successfully an FDP on “Blended Learning “by TASK Telangana from 20th May to 23rd May 2020.
- Attended an Interaction session on the occasion of “World Meteorology day” Higher educational Institutions and engineering college for quality product ,organized by AICTE .Attended a webinar on the topic “Getting back to work after lock down” organized by HYSEA ,Hyderabad.on 18th May 2020.
- Attended a webinar on “Research work flows, research Metrics and Excellence” in academic institutes by AICTE and Elsevier. On 13th may 2020.
- Attended seminar on the topic “ Virtual labs “organized by MHRD,NMEICT on 3rd May 2020.
- Participated in the panel discussion on Lockdown period on the topic “Work, life and Balance” on 2nd may 2020.
- Attended a webinar on “Need of the hour –wake up and find solutions.”on April 12th 2020.

- Three day workshop on Outcome based Teaching, Learning and Assessment organized by Centre for Education and Teaching VNRVJIET 25th to 27th June 2019.
- A two day workshop, “Technical Writing, 28th to 29th June 2019 organized by Centre for Education and Teaching VNRVJIET
- Attended one day workshop on “ How to write Good project proposals “ ,on 23rd February,2018 at VNRVJIET.
- Attended 3 day workshop in the state level Swach Pakhwada programme organized by NSS Cell ,JNTUH from 13th to 15th August ,2017, at CMR institute of Technology ,Hyderabad.
- Attended a 10 week FDP programme on Use of ICT in Education for Online and Blended Learning from April 2016 to June 2016 and successfully completed the course and got Top Performer award.
- A seminar on”Nanoscience and Technology for sustainable infrastructure”by Dr.Sesha.S Srinivas from Florida Polytechnic University USA, conducted by Centre for Nanoscience and Technology on 6th July 2016.
- Attended a 2 day workshop on “Innovations in Waste, Water and Energy Technologies for Rural Development”, organized by BITS ,Hyderabad on 13th to 14th July 2015
- Attended a 2 day workshop on “3D printing” conducted by the department of Mechanical Engineering at VNRVJIET during 19th -20th March 2015.
- Attended a two day workshop on “ Role of Chemistry in Advanced Engineering Materials” on 26th and 27th July 2013 at Vasavi College of Engineering ,Hyderabad
- Attended a one day workshop on “Advanced Materials and their application 2013”, Organized by H&S Dept VNRVJIET
- Attended a Three day workshop on Art of Teaching Feb 11-13th 2013 by IIIT-Hyderabad.
- Attended a lecture on Teaching methodologies and classroom Management by Prof Rao Unnava at VNRVJIET on 19th March 2013.
- Attended a one day workshop on “INTRO TO POGIL ”at Holy Cross Degree College BHEL-Hyderabad. On JUNE 21st 2013.
- Attended a lecture on “A Birds view of Nanomaterials in Science and Technology” by Dr. Brahmaji Rao at VNRVJIET on 25th July 2013.
- Attended a EMS lecture on Teaching and learning process a Paradigm shift by Dr. Kiranmai at VNRVJIET.
- Attended a EMS lecture on Demystifying Intellectual property Rights by Dr.Ramesh Chandra at VNRVJIET
- Attended a EMS lecture on Classroom Strategies and Management by Dr. C. Jyotsna at VNRVJIET.
- Attended a lecture on “**Our Inputs For Greener Environment**” by Dr.C.Jyotsna at VNRVJIET.
- Attended a one day workshop on “**INTRO TO POGIL** “organized by Dr. Sandhya Kode and Dr.C.Jyotsna on February 16th 2013.
- Attended all the POGIL follow up sessions organized by Dr. Sandhya Kode and Dr.C.Jyotsna conducted on March 1st and 13th, April 13th 2013.
- Attended a one day workshop on “**INTRO TO POGIL**” workshop organized by Dr Sandhya Kode Dr. C. Jyotsna at VJIM.
- Attended a two day workshop on pedagogy of technical writing organized by Humanities and Sciences Dept on 6th and 7th September 2012.

- Attended a lecture on teaching based learning outcomes by Dr P.G. Shastry on August 11th 2012.
- Attended a lecture on “Excellence in Engineering Education” by Dr P. Raghavendra Rao on September 28th 2012.
- Attended a lecture on Teaching Based Learning Outcomes by Dr P.G. Shastry on August 11th 2012.
- Attended a one day workshop on POGIL by Dr.Cliff and Technology for education by Dr. Kinshuk on 23 July 2012 at VNRVJIET.
- Attended a guest lecture on Material science organized by EEE department at VNRVJIET in 2011.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: 02

1. Novel materials in energy storage devices for environment and health care applications sponsored by AICTE and JNTUH from 24th January to 31st January 2022.
2. “IEEE Summer School on Nanotechnology– 2022, A 4-day Training on Fabrication and Characterization of Nanomaterials” held during 16th -19th November-2022.

5.2. Articles / Chapters published in Books: 01

Role of nanotechnology in sciences and Engineering , Published by Scieng publication in January 2021.

Patents :01

Published one design patent, Drinking glass with liquid analyzing mechanism in the December 2021.

5.3. Books published as single author or as editor:

5.4. Projects Guided:

- a) UG: Guided 8 B.tech students for their minor project on Nanomembranes for removing air and water pollutants.
- b) PG:NA

5.5. Research Interests:

Organic chemistry, Environmental Chemistry, Water and Waste Water Treatment, Pollution control Technology

5.6. Ph.D students:

- a) Enrolled: NA
- b) Submitted: NA
- c) Awarded: NA

5.7. Papers published in reviewed Journals:

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	Green synthesis of various metal Oxide nanoparticles for the	Materials Today Proceedings – Elsevier Journal	2214-7853	2.4	International

	Environmental remediation-An overview				
2	Effect of Mn^{2+} ions on spectroscopic and electrical properties of lithium strontium borate glasses	Materials Chemistry and Physics Volume 291, 15 November 2022,	126698	4.0	International
3	Absorption spectrum fitting method (ASF), DASF method and structural studies of $Li_2O-SrO-B_2O_3-MnO$ quaternary glass system	Optical Materials Volume 133, November 2022,	112911	3.08	International
4	Nano Fibrous Materials for Capturing Air Pollutants in the Ambient Air - A Review	Chem Sci Rev Lett 2022, 11 (41), 1-5	ISSN 2278-6783	6.4	International
5	Impact of Air Pollution from a Coal Fired Thermal Power Station on Brinjal and Tomato Crops	Chem Sci Rev Lett 2020, 9 (36), 902-908	ISSN 2278-6783	6.4	International
6	Detection of Tellurium (IV) in High purity metal & Synthetic mixtures using Morpholine dithiocarbamate & U.V Spectrophotometer	International Journal of Scientific Research & Review/ Vol 9 Issue 4 Apr-20	2279-543X	SJI 6.1	International
7	Impact of ash pond on Drinking water quality in	Chem Sci Rev Lett8	ISSN 2278-6783	6.4	International

	the vicinity of thermal power plant	(31), 125-131, November, 2019			
8	Novel Pedagogical methods for Effective Learning of Chemistry in Engineering Education	Journal of Applicable Chemistry 8 (4): 1603-1610 August, 2019	ISSN: 2278-1862	SJIF 3.49	International
9	Ambient air pollutant levels in the vicinity of Thermal power plant.	IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)	E-ISSN: 2319-2402, p- ISSN: 2319-2399. Volume 9, Issue 2 Ver. I (Feb 2015), PP 56-60.	1.82	International
10	Impact of Air Pollution on Crops in the Vicinity of a Power Plant: A Case Study	International Journal of Engineering Research & Technology (IJERT) Vol. 2 Issue 12,	December – 2013 ISSN: 2278-0181	1.76	International
11	A Mini Review on the Minimization of hazardous Compounds in the Pharmaceutical Waste	CSRL 2013, 1(4), 224-227	ISSN 2278-6783	4.0	International

5.8. Papers/Abstract presented at National / International conferences :

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Green synthesis of various metal Oxide nanoparticles for the Environmental remediation-An overview	International Conference on multifunctional Materials Organized by Githanjali College of Engineering and Technology -Hyd	International	22 nd -24 th December - 2022

2	Role of Nanotubes and Nanomembranes to combat Air pollution – A review article (Abstract)	First International Virtual Conference On Nanomaterials, FIVCON-	International	10 th – 12 th , September 2020 organized by Dept. of Nanotechnology, Acharya Nagarjuna university
3	“Effect of Air pollution from a coal fired thermal power plant on Brinjal and Tomato crops” – A case study.	Prof C.R.rao centenary Conference on Statistics and Applications	National	6 th -7 th February 2020
4	Air Pollution Tolerance Index in certain plants in the vicinity of a Thermal power station –A case study	“New Dimensions in Chemistry & Chemical Technologies Applications in Pharma Industry “,conference Proceedings at JNTUH- Hyderabad	International	June 23 rd to 25 th 2014

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
1	MUSHROOM cultivation Project	UBA	2019-2020	One lakh	Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed
	NIL				

6. Awards / Honors received:

- Best academician award –Narishakthi awards by Scieng Publications 2022
- Best Reviewer award by CSRLjournal in 2021.
- Appreciation certificate for doing Social service by Medidhi Subbaiah Trust in2021
- Best Teacher award by Lions club Serilingampally.in 2009
- Top performer in the IIT BombayX FDP programme in 2015

7. Motto: The key to Success is to focus on Goals not obstacles.

