

Name of Faculty Dr. N. Mahender Reddy
 Designation Assistant Professor
 Nature of Job/Appointment Regular
 Date of Joining 24 - 06 - 2019
 E-mail nmahenderreddy_chm@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Chemistry)	Awarded
PG	M. Sc. (Chemistry)	First
UG	B. Sc. (with Botany, Zoology, Chemistry)	Pass

Work Experience

Teaching	8 Years
Research	05 years
Industry	08 Years
Others	
Area of Specialization	Catalysis, Inorganic and Organic chemistry
Professional Memberships	--
Responsibilities held at Institution Level	--
Responsibilities held at Department Level	1. Mentor for Induction program to the 1 st Year Students. 2. Class In-charge/Teacher 3. Member- Disciplinary committee
Research Guidance	--
Awards Received	1. Senior research fellowship award from CSIR in 2002 2. Post-doctoral research fellowship form University Paul Sabatier in 2003.
Courses Handled at Under Graduate / Post Graduate Level.	UG-Chemistry
No. of Papers Published	National Journals – Nil International Journals – 04 National Conference – Nil International Conference – 02
Projects Carried out	స్వయం తేజస్విన భవన్
Patents	--
Technology Transfer	--
Invited Speaker	--
No. of Books/Chapter Published with details	1. Kurapati, S.K., Mahendar Reddy, N., Sujithra, R., Kola, R., Ramesh, G.V. and Saritha, D. (2023). Nanomaterials and Nanostructures in Additive Manufacturing: Properties, Applications, and Technological Challenges. In Nanotechnology-Based Additive Manufacturing (eds K. Deshmukh, S.K.K. Pasha and K.K. Sadasivuni). https://doi.org/10.1002/9783527835478.ch3 . 2. Reddy, N.M., Saritha, D., Dandu, N.K., Chandaluri, C.G. and Ramesh, G.V. (2022). Recent Advances of Biomass-Derived Porous Carbon Materials in Catalytic Conversion of Organic Compounds. In Biomass-Derived Carbon Materials (eds A. Pandikumar, P. Rameshkumar and P. Veerakumar). https://doi.org/10.1002/9783527832903.ch13 3. D. Saritha, N. Mahender Reddy, Gubbala V. Ramesh, Pt- and Pd- based intermetallic anode catalysts for direct ethanol fuel cell (DEFC): An overview, Materials Today:

Proceedings, Volume 64, Part 1, 2022, Pages 357-362, DOI: <https://doi.org/10.1016/j.matpr.2022.04.705>.

4. N. Mahender Reddy, Gubbla V. Ramesh, D. Saritha, Contemporary advancement on the alloy-based anodes for Sodium-ion batteries, *Materials Today: Proceedings*, Volume 64, Part 1, 2022, Pages 290-294, <https://doi.org/10.1016/j.matpr.2022.04.531>.
5. Kiran Kumar Tadi, N. Mahender Reddy, Ch. G. Chandaluri, Gowri Priya Sakala, Gubbala V. Ramesh, *Functional Polymer Nanocomposites for Wastewater Treatment*. Book Title: *Functionalized Biopolymer Nanocomposites for the Degradation of Textile Dyes*. Springer Series in Materials Science, 2022, vol 323. Springer, Cham, pp 175–200, ISBN978-3-030-94994-5, DOI: https://doi.org/10.1007/978-3-030-94995-2_6.
6. Naveen K. Dandu, Ch. G. Chandaluri, Kola Ramesh, D. Saritha,* N. Mahender Reddy,* Gubbala V. Ramesh*, *Carbon nanomaterials: application as sensors for diagnostics*. Book Title: *Advanced Nanomaterials for Point of Care Diagnosis and Therapy*, 2022, Pages 211-248. Elsevier, DOI: <https://doi.org/10.1016/B978-0-323-85725-3.00015-5>.
7. Book Title: *2D Functional Nanomaterials: Synthesis, Characterization, and Applications*, Chapter Title: *2D Nanomaterials for Photocatalysis and hot electrocatalysis*. Authors: Gubbala V. Ramesh, * N. Mahendar Reddy, Muvva D. Prasad, D. Saritha, Kola Ramesh. Wiley-VCH, Weinheim, Chapter 22, pp 383-411, 2021, ISBN: 9783527823949, 3527823948.
8. Book Title: *Functional Materials Processing for Switchable Device Modulation*, Chapter Title: *Recent advances in functional materials: Bioelectronics-integrated biosensor applications*. Authors: Gubbala V. Ramesh,* Ch. G. Chandaluri, * Kiran Kumar Tadi, Naveen K. Dandu, and N. Mahender Reddy. Elsevier Ltd, Chapter 12, pp 221-239, 2021, ISBN: 9780128242339, 9780128239728
9. Book Title: *Proceedings of Fourth International Conference on Inventive Material Science Applications*. *Advances in Sustainability Science and Technology*. Chapter Title: *Ordered Pt3M (M= Early d- block Metals) Intermetallic Nanocrystals: Synthesis and Electrocatalysis*. Authors: D. Saritha, N. Mahendar Reddy*, Gubbala V. Ramesh*, Springer-Accepted, pp 585-594, 2021, https://doi.org/10.1007/978-981-16-4321-7_48, ISBN: 978-981-16-4320-0, 978-981-16-4321-7.
10. Book Title: *Advances in Sustainability Science and Technology*, Chapter Title: *Modern progression in anode materials for lithium-ion batteries: Review*, Authors: Gubbala V. Ramesh, N. Mahendar Reddy, D. Saritha* Springer-Accepted, pp 595-603, 2021, https://doi.org/10.1007/978-981-16-4321-7_49, ISBN: 978-981-16-4320-0, 978-981-16-4321-7.

1. FDP on “GREEN CHEMISTRY FOR SUSTAINABLE DEVELOPMENT” SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, from 16-05-22 to 21-05-22
2. FDP on “Personality Development” NITTTR, Chandigarh from 28-02-22 to 04-03-22
3. FDP on “Analytical Techniques for Material Characterization” NITTTR, Chandigarh, from 07-03-22 to 11-03-22
4. FDP on “Recent Trends on Smart Materials and Their Applications” Vardhaman College of Engineering from 07-02-22 to 11-02-22
5. FDP on “Role of Chemistry in Advanced Engineering Materials (RCAEM-2021)” VASAVI COLLEGE OF ENGINEERING (A) from 25-10-21 to 29-10-21

Details of Short-Term Training Programs / Faculty Development Programs / Seminars / Workshops. Other Trainings (Attended /or organized).

6. FDP on “Applied Chemistry to Design Smart Materials for Device Applications” Geethanjali College of Engineering and Technology, from 20-10-21 to 24-10-21
7. FDP on “Inculcating Universal Human Values in Technical Education” All India Council for Technical Education (AICTE), from 8-11-21 to 12-11-21
8. Participated in the online AICTE Recognized one week FDP on “Multifunctional Nanomaterials and Characterization” Organized by NITTTR, Chandigarh, during 21-06-2021 to 25-06-2021.
9. Participated in the online AICTE Recognized one week FDP on “Quantum and Energy Materials: Potential and Applications” Organized by NITTTR, Chandigarh, during 14-06-2021 to 18-06-2021.
10. Participated in the online AICTE Recognized one week FDP on “Nanotechnology: Development and Challenges” Organized by NITTTR, Chandigarh, during 17-05-2021 to 21-05-2021.
11. Participated in One-week Faculty Development Programme on Research Paper Writing” Organized by K.G. Reddy College of Engineering Technology, Moinabad, Hyderabad, during 10/05/2021 to 15/05/2021.
12. Participated in the online AICTE Recognized one week FDP on “Essential Chemistry for Engineers” Organized by NITTTR, Chandigarh, during 03-05-2021 to 07-05-2021.
13. Participated in the online AICTE Recognized one week FDP on “Accreditation and Outcome Based Curriculum Design” Organized by NITTTR, Chandigarh, during 08-03-2021 to 12-03-2021.
14. Participated in One week online Faculty Development Program on “Student Induction and Universal Human Values” Organized by Department of Physics, Chaitanya Bharathi Institute of Technology (A), Hyderabad-500075, during 26/08/2020 to 30/08/2020.
15. Participated in One week online Faculty Development Program on “Role of materials science in engineering: Applications Perspective” Organized by Department of Physics, Mahatma Gandhi Institute of Technology, Hyderabad-500075, during 03/08/2020 to 07/08/2020.
16. A One Week Faculty Development Program on “Advanced Materials for Energy Harvesting, Conversion and Storage”, at MLRIT, Hyderabad, during 19-06-2020 to 23-06-2020.
17. A One Week Faculty Development Programme on “Waste Management”, at NITTR, Chandigarh, during 08-06-2020 to 12-06-2020
18. A One Week Faculty Development Program on “Materials: Recent Trends & Engineering Applications”, at GRIET, Hyderabad, during 02-06-2020 to 07-06-2020
19. A One Week Faculty Development Program on “Nanomaterials and Devices”, at NITTR, Chandigarh during 25-05-2020 to 29-05-2020
20. A One Week Faculty Development Program on “Outcome based education and NBA accreditation Process (UG)”, at CBIT, Hyderabad, during 28-05-2020 to 01-06-2020
21. A Two-Week course on “Digital Transformation in Teaching Learning Process” at IIT, Bombay, during 14-02-2020 to 06-03-2020 (TEQIP Online certification).
22. Attended a One Day Workshop on “Recent Trends in Materials and Its Applications in Engineering” organized by department of Physics, Chaitanya Bharathi Institute of Technology (A), Hyderabad, November 20th, 2019.
23. A one-day seminar on “Physics and its Applications in Engineering” organized by department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, March 13th, 2019
24. A Faculty Orientation Workshop for “Enabling student’s induction in technical institutions” organized by AICTE-South central regional office, Hyderabad at JNTU-Hyderabad, during 27-06-2017 to 01-07-2017

25. A One-day Workshop on "Performance Measures in Academic & Research Aspects" conducted by IQAC, CBIT, Hyderabad on 20-06-2017.
26. A one-week Faculty Development Program on "Meeting the challenges of teaching in modern engineering education" conducted by ITC, CBIT, Hyderabad, during 12-06-2017 to 17-06-2017.

Details of Journal Publications/ Conferences (National and International) from the year 2017

International / National Conferences from the year 2017

1. Dr.N. Mahender Reddy, (2021), Presented a paper titled "Quantum Dots in Point-of-Care Testing Devices for Disease Diagnosis" at "(ICMPC-2021) ", organized by NITTTTR, Chandigarh on 6th to 9th October.
2. Dr.N. Mahendar Reddy (2020), Presented a paper titled "Silica Immobilized palladium Phosphine Complex as A Catalys3 for Sonogashira Coupling Reactions" at International e-Conference on Materials Processing & Characterization (ICMP&C-2020) Organized by Department of Physics, Chaitanya Bharathi Institute of Technology (A), Hyderabad-500075, during 18/09/2020 to 19/09/2020.

