

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	9 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 from the University Paul Sabatier in 2003.				
Courses Handled at Under Graduate / Post Graduate Level.	UG-Chemistry				
No. of Papers Published	National Journals – Nil	International Journals – 06			
	National Conference – Nil	International Conference – 04			
Projects Carried out	--				
Patents	--				
Technology Transfer	--				
Invited Speaker	--				
No. of Books/Chapter Published with details	1. Sravya Kolluru, Sahasra Reddy, M. Mukunda Vani, Gubbala V. Ramesh, and N. Mahendar Reddy, Recent Developments in Glucose Detection Technologies: Advancements and Implications for Human Health. In: Singh, S.A., Dutta, A., Murthy, Z. (eds) Novel Materials and Technologies for Energy and Environment Applications, Volume 1. NMTE2A 2024. Springer Proceedings in Materials, vol 77. Springer, Singapore. https://doi.org/10.1007/978-981-96-6107-7_5 2. G. Ameer Basha, C. V. Krishna Reddy, E. Hariprasad, N. Mahendar Reddy , Gubbala Venkata Ramesh, Gadolinium-Doped Spinel Ferrites with Improved Antimicrobial Efficacy and Magnetic Properties, Patent Application No.202541004270 A, Publication Date : 24/01/2025 3. N. Mahender Reddy, Gubbala V. Ramesh, Shravan Kumar Reddy, D. Saritha (2024) Functionalized magnetic nanosystems for medical imaging, <i>Functionalized Magnetic Nanosystems for Diagnostic Tools and Devices: Current and Emerging Research</i> , ISBN 978-0-443-19012-4 https://doi.org/10.1016/B978-0-443-19012-4.00022-9 4. 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 <i>Nanotechnology-Based Additive Manufacturing</i> (eds K.				

	<p>Deshmukh, S.K.K. Pasha and K.K. Sadasivuni). https://doi.org/10.1002/9783527835478.ch3.</p> <p>5. 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 <i>Biomass-Derived Carbon Materials</i> (eds A. Pandikumar, P. Rameshkumar and P. Veerakumar). https://doi.org/10.1002/9783527832903.ch13</p> <p>6. D. Saritha, N. Mahender Reddy, Gubbala V. Ramesh, Pt- and Pd- based intermetallic anode catalysts for direct ethanol fuel cell (DEFC): An overview, <i>Materials Today: Proceedings</i>, Volume 64, Part 1, 2022, Pages 357-362, DOI: https://doi.org/10.1016/j.matpr.2022.04.705.</p> <p>7. N. Mahender Reddy, Gubbala V. Ramesh, D. Saritha, Contemporary advancement on the alloy-based anodes for Sodium-ion batteries, <i>Materials Today: Proceedings</i>, Volume 64, Part 1, 2022, Pages 290-294, https://doi.org/10.1016/j.matpr.2022.04.531.</p> <p>8. Kiran Kumar Tadi, N. Mahender Reddy, Ch. G. Chandaluri, Gowri Priya Sakala, Gubbala V. Ramesh, Functional Polymer Nanocomposites for Wastewater Treatment. Book Title: <i>Functionalized Biopolymer Nanocomposites for the Degradation of Textile Dyes</i>. Springer Series in Materials Science, 2022, vol 323. Springer, Cham, pp 175–200, ISBN 978-3-030-94994-5, DOI: https://doi.org/10.1007/978-3-030-94995-2_6.</p> <p>9. 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: <i>Advanced Nanomaterials for Point of Care Diagnosis and Therapy</i>, 2022, Pages 211-248. Elsevier, DOI: https://doi.org/10.1016/B978-0-323-85725-3.00015-5.</p> <p>10. Book Title: <i>2D Functional Nanomaterials: Synthesis, Characterization, and Applications</i>, Chapter Title: <i>2D Nanomaterials for Photocatalysis and hot electrocatalysis</i>. Authors: Gubbala V. Ramesh, * N. Mahendar Reddy, Muwa D. Prasad, D. Saritha, Kola Ramesh. Wiley-VCH, Weinheim, Chapter 22, pp 383-411, 2021, ISBN: 9783527823949, 3527823948.</p> <p>11. Book Title: <i>Functional Materials Processing for Switchable Device Modulation</i>, Chapter Title: <i>Recent advances in functional materials: Bioelectronics-integrated biosensor applications</i> 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</p> <p>12. Book Title: <i>Proceedings of Fourth International Conference on Inventive Material Science Applications. Advances in Sustainability Science and Technology</i>. Chapter Title: <i>Ordered Pt3M (M= Early d- block Metals) Intermetallic Nanocrystals: Synthesis and Electrocatalysis</i> 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.</p> <p>13. Book Title: <i>Advances in Sustainability Science and Technology</i>, Chapter Title: <i>Modern progression in anode materials for lithium-ion batteries: Review</i>, 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.</p>
<p>Details of Short-Term Training Programs / Faculty Development Programs / Seminars / Workshops. Other Trainings (Attended/or organized).</p>	<ol style="list-style-type: none"> One week online Short-Term Training Program (STTP) on “Cutting-Edge Chemical Technologies and Industry Relevance” (CCTIR-2025) from 3rd - 7th March, 2025, organized by Department of Chemistry, Vardhaman College of Engineering, Hyderabad. FDP on Outcome based Education and Accreditation Process, NITTTR and MGIT from 25-11-2024 to 29-11-2024

3. FDP on "GREEN CHEMISTRY FOR SUSTAINABLE DEVELOPMENT" SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, from 16-05-22 to 21-05-22
4. FDP on "Personality Development" NITTTR, Chandigarh from 28-02-22 to 04-03-22
5. FDP on "Analytical Techniques for Material Characterization" NITTTR, Chandigarh, from 07-03-22 to 11-03-22
6. FDP on "Recent Trends on Smart Materials and Their Applications" Vardhaman College of Engineering from 07-02-22 to 11-02-22
7. FDP on "Role of Chemistry in Advanced Engineering Materials (RCAEM-2021)" VASAVI COLLEGE OF ENGINEERING (A) from 25-10-21 to 29-10-21
8. 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
9. FDP on "Inculcating Universal Human Values in Technical Education" All India Council for Technical Education (AICTE), from 8-11-21 to 12-11-21
10. 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.
11. 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.
12. 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.
13. Participated in One-week Faculty Development Programme on Research Paper Writting" Organized by K.G. Reddy College of Engineering Technology, Moinabad, Hyderabad, during 10/05/2021 to 15/05/2021.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. A One Week Faculty Development Programme on "Waste Management", at NITTR, Chandigarh, during 08-06-2020 to 12-06-2020
20. A One Week Faculty Development Program on "Materials: Recent Trends & Engineering Applications", at GRIET, Hyderabad, during 02-06-2020 to 07-06-2020
21. A One Week Faculty Development Program on "Nanomaterials and Devices", at NITTR, Chandigarh during 25-05-2020 to 29-05-2020
22. 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
23. 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).
24. 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.
25. A one-day seminar on "Physics and its Applications in

	<p>Engineering" organized by department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, March 13th, 2019</p> <p>26. 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</p> <p>27. A One-day Workshop on "Performance Measures in Academic & Research Aspects" conducted by IQAC, CBIT, Hyderabad on 20-06-2017.</p> <p>28. 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.</p>
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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 NITTTR, Chandigarh on 6th to 9th October.
2. Dr.N. Mahendar Reddy (2020), Presented a paper titled "Silica Immobilized palladium Phosphine Complex as A Catalyst 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.