


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		
<b>Education Qualifications</b>	<b>Name of the Degree</b>		<b>Class</b>
Ph. D	Doctor of Philosophy (Chemistry)		Awarded
PG	M. Sc. (Chemistry)		First
UG	B. Sc. (with Botany, Zoology, Chemistry)		Pass
<b>Work Experience</b>			
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 <sup>st</sup> 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	--		
Patents	--		
Technology Transfer	--		
Invited Speaker	--		
No. of Books/Chapter Published with details	1. G. Ameer Basha, C. V. Krishna Reddy, E. Hariprasad, <b>N. Mahendar Reddy</b> , Gubbala Venkata Ramesh, Gadolinium-Doped Spinel Ferrites with Improved Antimicrobial Efficacy and Magnetic Properties, Patent Application No.202541004270 A, Publication Date : 24/01/2025 2. 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 <a href="https://doi.org/10.1016/B978-0-443-19012-4.00022-9">https://doi.org/10.1016/B978-0-443-19012-4.00022-9</a> 3. 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. Deshmukh, S.K.K. Pasha and K.K. Sadasivuni). <a href="https://doi.org/10.1002/9783527835478.ch3">https://doi.org/10.1002/9783527835478.ch3</a> . 4. 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.		

	<p>Veerakumar).  <a href="https://doi.org/10.1002/9783527832903.ch13">https://doi.org/10.1002/9783527832903.ch13</a></p> <ol style="list-style-type: none"> <li>5. 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: <a href="https://doi.org/10.1016/j.matpr.2022.04.705">https://doi.org/10.1016/j.matpr.2022.04.705</a>.</li> <li>6. 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, <a href="https://doi.org/10.1016/j.matpr.2022.04.531">https://doi.org/10.1016/j.matpr.2022.04.531</a>.</li> <li>7. 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: <a href="https://doi.org/10.1007/978-3-030-94995-2_6">https://doi.org/10.1007/978-3-030-94995-2_6</a>.</li> <li>8. 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: <a href="https://doi.org/10.1016/B978-0-323-85725-3.00015-5">https://doi.org/10.1016/B978-0-323-85725-3.00015-5</a>.</li> <li>9. 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.</li> <li>10. 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</li> <li>11. 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, <a href="https://doi.org/10.1007/978-981-16-4321-7_48">https://doi.org/10.1007/978-981-16-4321-7_48</a>, ISBN: 978-981-16-4320-0, 978-981-16-4321-7.</li> <li>12. 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, <a href="https://doi.org/10.1007/978-981-16-4321-7_49">https://doi.org/10.1007/978-981-16-4321-7_49</a>, ISBN: 978-981-16-4320-0, 978-981-16-4321-7.</li> </ol>
<p>Details of Short-Term Training Programs / Faculty Development Programs / Seminars / Workshops. Other Trainings (Attended /or organized).</p>	<ol style="list-style-type: none"> <li>1. FDP on Outcome based Education and Accreditation Process, NITTTR and MGIT from 25-11-2024 to 29-11-2024</li> <li>2. FDP on “GREEN CHEMISTRY FOR SUSTAINABLE DEVELOPMENT” SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, from 16-05-22 to 21-05-22</li> <li>3. FDP on “Personality Development” NITTTR, Chandigarh from 28-02-22 to 04-03-22</li> <li>4. FDP on “Analytical Techniques for Material Characterization” NITTTR, Chandigarh, from 07-03-22 to 11-03-22</li> <li>5. FDP on “Recent Trends on Smart Materials and Their Applications” Vardhaman College of Engineering from 07-02-22 to 11-02-22</li> </ol>

	<ol style="list-style-type: none"> <li>6. FDP on "Role of Chemistry in Advanced Engineering Materials (RCAEM-2021)" VASAVI COLLEGE OF ENGINEERING (A) from 25-10-21 to 29-10-21</li> <li>7. 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</li> <li>8. FDP on "Inculcating Universal Human Values in Technical Education" All India Council for Technical Education (AICTE), from 8-11-21 to 12-11-21</li> <li>9. 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.</li> <li>10. 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.</li> <li>11. 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.</li> <li>12. 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.</li> <li>13. 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.</li> <li>14. 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.</li> <li>15. 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.</li> <li>16. 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.</li> <li>17. 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.</li> <li>18. A One Week Faculty Development Programme on "Waste Management", at NITTR, Chandigarh, during 08-06-2020 to 12-06-2020</li> <li>19. A One Week Faculty Development Program on "Materials: Recent Trends &amp; Engineering Applications", at GRIET, Hyderabad, during 02-06-2020 to 07-06-2020</li> <li>20. A One Week Faculty Development Program on "Nanomaterials and Devices", at NITTR, Chandigarh during 25-05-2020 to 29-05-2020</li> <li>21. 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</li> <li>22. 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).</li> <li>23. 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 20<sup>th</sup>, 2019.</li> <li>24. A one-day seminar on "Physics and its Applications in Engineering" organized by department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, March 13<sup>th</sup>, 2019</li> <li>25. 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</li> <li>26. A One-day Workshop on "Performance Measures in Academic &amp; Research Aspects" conducted by IQAC, CBIT, Hyderabad on 20-06-2017.</li> </ol>
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	27. 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.
<b>Details of Journal Publications/ Conferences (National and International) from the year 2017</b>	
<b>International / National Conferences from the year 2017</b>	
<ol style="list-style-type: none"> <li>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.</li> <li>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 &amp; Characterization (ICMP&amp;C-2020) Organized by Department of Physics, Chaitanya Bharathi Institute of Technology (A), Hyderabad-500075, during 18/09/2020 to 19/09/2020.</li> </ol>	