

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	6 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. 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.
2. 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
3. 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](https://doi.org/10.1007/978-981-16-4321-7_48), ISBN: 978-981-16-4320-0, 978-981-16-4321-7.

4. 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](https://doi.org/10.1007/978-981-16-4321-7_49), ISBN: 978-981-16-4320-0, 978-981-16-4321-7.

#### **Faculty Development Programs Attended**

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. A One Week Faculty Development Programme on “Waste Management”, at NITTR, Chandigarh, during 08-06-2020 to 12-06-2020
11. A One Week Faculty Development Program on “Materials: Recent Trends & Engineering Applications”, at GRIET, Hyderabad, during 02-06-2020 to 07-06-2020
12. A One Week Faculty Development Program on “Nanomaterials and Devices”, at NITTR, Chandigarh during 25-05-2020 to 29-05-2020
13. 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
14. 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).
15. 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.
16. 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
17. 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
18. A One-day Workshop on “Performance Measures in Academic & Research Aspects” conducted by IQAC, CBIT, Hyderabad on 20-06-2017.

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

19. 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 NITTTR, Chandigarh on 6th to 9th October.
2. Dr.N. Mahendar Reddy (2020), Presented a paper titled "Silica Immobilized palladium Phosphine Complex as A Catalys<sup>3</sup> 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.