



Name of Faculty Dr. C. OBULA REDDY
 Designation Assistant Professor
 Nature of Job/Appointment Regular
 Date of Joining 14 – 08 - 2006
 E-mail cobulreddy_biotech@cbit.ac.in

Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Biotechnology)	Awarded
PG	M. Tech (Biotechnology)	Distinction
PG	M.Sc. (Biotechnology)	First
BEd	BEd (Biology and English)	First
UG	B. Sc. (with Mb.Z.c)	Second

Work Experience
 Teaching 19 Years (Includes Research Experience)
 Research 05 years
 Industry --
 Others --

Area of Specialization Biotechnology

Professional Memberships
 1.Member, ISCA Number: L 24120
 2 .Life member for society for stem cell and Tissue Engineering

Responsibilities held at Institution Level
 Convenor, Career Guidance cell from 01-01-22 to till date.

Responsibilities held at Department Level
 1. Member, Board of Studies
 2. Member, Course Expert Group
 3. Coordinator, Industry Institute Interaction
 4. Coordinator, NAAC
 5. Class coordinator for 2nd year students from the inception of the department.
 6. MOU Coordinator

Research Guidance Guided more than 40 B. Tech Biotech Projects

Awards Received
 1) Awarded Fellow of society for Bioengineering and Biotechnology.
 2) Awarded center for excellence for reviewing journal of pharmaceutical research and Journal Asian journal of pregnancy and child birth
 3) Received 8 times First Best Teacher appreciation letters from Head of the Institute

Courses Handled at Under Graduate / Post Graduate Level.
 Cell Biology, Microbiology, Industrial Biotechnology, Virology, Cancer Biology, Downstream Processing, Protein Engineering and Enzyme Technology, Fundamentals of Biotechnology, Medical Biotechnology, Developmental Biology Environmental Biotechnology, Environmental Science, Immunology, Food Biotechnology, Fermentation Technology, Molecular Biology, Cell and Molecular Biology.

No. of Papers Published
 National Journals – Nil International Journals – 16
 National Conference – 2 International Conference – 4

Projects Carried out Inhouse R&D project carried out in 2013 for the 'Fabrication of Photo tubular Reactor for the Production of Biodiesel from Microalgae Botryococcus Braunii'.

Patents Published 3 Indian patents

Technology Transfer --

Invited Speaker 1) Invited for the Adjudication of PhD Thesis at VITUniversity.
2) Invites as guest speaker for delivering lecture on Types of Biomaterials and their use in health care at SAIRAM PG College, Kurnool.

No. of Books/ChapterPublished with details : 1) Published Book Titled "Phytochemical Investigation of Calotropis gigantea",2019, Lambert Publications.
2) Published a book Titled" Biomass A Valuable Product",2022,Lambert Publications.
3) Published a book Titled" Role of Nanomedicine in the treatment of Lung cancer,2025, Lambert Publications.

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

	<ol style="list-style-type: none"> 1. Attended one-week online FDP on Smart Materials Processing and Applications conducted by applied Science Department,NITTTTR,Chandigarh held at Chaitanya Bharathi Institute of Technology(A),from 25-07-22 to 29-07-22. 2. Attended one-week online FDP on 2D Nanomaterials: Potential and applications conducted by applied Science Department,NITTTTR,Chandigarh held at Chaitanya Bharathi Institute of Technology(A),from 17-10-22 to 21-10-22. 3. Attended Online Advanced ATAL FDP Advanced Manufacturing of Biomedical Devices for Precision Health Technologies " at IITT from 24/01/2022 to 28/01/2022. 4. Attended Online Elementary ATAL FDP on Advanced Manufacturing of Biomedical Devices for Precision Health Technologies, Organized by ATAL Academy from 13-12-2021 to 17-12-2021 5. Attended online webinar on Bioinformatics and Molecular tools to understand Plant Genome Diversity (NBMPGD 2021) Organized by UCAS, Krishna university, Machilipatnam on August 12th,2021 6. The coordinator at "SUDHEE 2021" held on 3rd - 4th March 2021 at Chaitanya Bharathi Institute of Technology(A), Hyderabad - 500 075, Telangana, India. 7. Attended FDP on "Recent Trends in Advanced Materials Science & Engineering Technology", Dept of Chemistry, CBIT, 08-03-2021 to 12-3-21. 8. Attended online webinar on Present and future opportunities in the biopharma and vaccine industries" Organized by FABA Academy, on 26th June, 2021 9. Attended FDP on Advances in Biotechnology and Bioinformatics, 10. Dept of Biotechnology, NIT Warangal from 22-03-2021 to 26-03-2021. 11. The coordinator at "SUDHEE 2021" held on 3rd - 4th March 2021 at Chaitanya Bharathi Institute of Technology(A), Hyderabad - 500 075, Telangana, India. 12. Attended FDP on "Recent Trends in Advanced Materials Science & Engineering Technology", Dept of Chemistry, CBIT, 08-03-2021 to 12-03-2021. 13. Presented a paper in Two-Day Online National Conference on Biological, Biochemical, Biomedical, Bioenergy, and Environmental Biotechnology, NIT Warangal from 29th to 30th January, 2021.
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14. Attended online webinar on Bioinformatics and Molecular tools to understand Plant Genome Diversity (NBMPGD 2021) Organized by UCAS, Krishna university, Machilipatnam on August 12th, 2021
15. Attended STC on Recent advances in Biomedical Engg, DBT, IITRoorkee from 30-11-2020-04-12-2020.
16. Attended FDP on Advances in Biological, Biochemical and Bioenergy, DBT, NITWarangal from 09-11-2020 to 13-11-2020.
17. Attended FDP on Advances and Applications of Bioprocess Engineering, DBT, NIT Warangal from 24-08-2020 to 28-08-2020.
18. Presented paper in international conference on advance materials science and applications, MSRIT, Bangalore from 3-4 September, 2020mber, 2020.
19. Presented a paper in international conference on materials processing & characterization, ICMP&C, CBIT, Hyderabad from 18th to 19th August 2020.
16. Attended FDP on Evaluation and setting of Question papers, NITTTR, Chandigarh from 20-07-2020 to 24-07-2020.
17. Participated Online National Webinar on "Statistical Analysis with an interface of Engineering Problems", at CBIT, Gandipet, on 13-07-2020.
18. A Five day online Faculty Development Programme and webinar series on "Latest trends and Future Prospects of Biotechnology", at NIT, Andhra Pradesh, during 06-07-2020 to 10-07-2020.
19. Participated online webinar on "Current Trends and Challenges in 3DBioprinting Technology-2020", at VIT, Vellore, India on the 05-07-2020.
20. Participated online National webinar on "Innovation, Incubation and Entrepreneurship", at Engineering Staff College of India, on 26-06-2020.
21. Participated Online Webinar on "CO-PO Attainment", at Inpods, on 13-06-2020
22. Organized a one-week FDP on "Current Progress and Future prospects of Biotechnology", during 08-06-2020 to 13-06-2020.
23. A One Week Online Faculty Development Program on "Waste Management", at NIITTR, Chandigarh, during 08-06-2020 to 12-06-2020.
24. Participated online webinar on "Reverse Genetics in Genomics Era", at AV College, on 07-06-2020.
25. A One Week Online Faculty Development Program on "Outcome Based Curriculum Design", at NIITTR, Chandigarh, during 01-06-2020 to 05-06-2020.
26. A One Week Online Faculty Development Program on "Outcome Based Education", at CBIT, Gandipet, during 28-05-2020 to 01-06-2020.
27. Successfully completed online Training on "How to setup Food Business and Food Processing unit: Impact and Opportunities Post Covid-19", at MSME technology Development center Agra, during 24-05-2020 to 26-05-2020
28. Participated the India First Leadership Talk Webinar with Mr. Mahesh Babu CEO Mahindra Electric Mobility Ltd., 23rd May 2020 conducted by MHRD's Innovation Cell.
29. Participated online National Workshop on "Effective and Efficient online teaching in the age of corona", A Hands-on Workshop. at IIT, Bombay, on 23-05-2020
30. Participated in the IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from 28th April to 22nd May 2020.
31. Successfully Completed "Thoracic Oncology" an online non-credit course authorized by University of Michigan and offered through Coursera on 20-05-2020.
32. Participated Online Webinar organized on "NAAC accreditation Demo", at Inpods, on 20-05-2020.
33. Participated the India First Leadership Talk Webinar with Dr. Pramod Chaudhari, Founder, Chairman, Praj Industries Limited, 16th May 2020 conducted by MHRD's Innovation Cell.
34. A One Week Online Faculty Development Program on "OBE step towards Excellence", at Govt College of Engg, Karad during 11-05-

	<p>2020 to 15-05-2020.</p> <p>35. Participated the India First Leadership Talk Webinar with Prof D. P. Singh, Chairman UGC, 9th May, 2020 conducted by MHRD's Innovation Cell.</p> <p>36. Participated the India First Leadership Talk Webinar with Shri Mahesh Babu, Mahindra Electricals, 2nd May, 2020 conducted by MHRD's Innovation Cell.</p> <p>37. Attended one-week National Workshop on "3DBioprinting and Bio fabrication Technologies and Their Applications", at IIT, Hyderabad, during 09-12-2019 to 14-12-2019.</p> <p>38. Organized a Two-day National Workshop on Current Trends in Bioinformatics, at CBIT, Gandipet, during 16-03-2019-17-03-2019.</p> <p>39. Attended 3day Workshop on "Animal cell culture", at CFRD, Osmania university,2018.</p> <p>40. Organized a Two-Day National Level Technical Symposium "Neozion2018", during 27-09-2018 to 28-09-2018.</p>
<p>Details of Journal Publications/ Conferences (National and International)</p>	<p>International /National journals from the year 2017</p> <ol style="list-style-type: none"> 1. Narendra Kumar Papathoti a, Bala Hanumath Sriram Kanduria, Keerthi Gorrekanti b,Obula Reddy Chittepu c, Wannaporn Thepbandit a, Nguyen Huy Hoang a ,Rungthip Sangpueak a , Chanon Saengchan a, Toan Le Thanh d , Kumrai Buensanteai,Structural insights into methanol to ethanol conversion through pMMO and MDH from <i>Methylococcus capsulatus</i> using the protein-protein interactions and molecular dynamics simulations, JBB, Biomass and Bioenergy 201 (2025) 108031. 2. Satyanarayana Swamy Vyshnava, ad Surendra Babu Numbury,Obula Reddy Chittepu Kamala Prasad Vasikarla,d Roja Rani Anupalli,Peddiahgari Vasu Govardhana Reddy and Muralidhara Rao Dowlathabad, Deciphering breast cancer cell heterogeneity: a quantum dot-conjugate approach employing MCF-7 and THP-1 co-cultures. RSC, New journal of chemistry, DOI: 10.1039/d4nj01990c, ISSN: 1369-9261,Issue 29,2024. 3. Chittepu Obula Reddy1*, Sudhamayee Behura2, Prem Vijoy3, Kanu Shil4, Nagar, Panikhaiti5, Santanu Sarma6, Roop Raj7, Shital P. Dehankar8,BALANCING ENERGY NEEDS AND ENVIRONMENTAL CONSERVATION: THE CASE OF HYDROPOWER DEVELOPMENT IN BHUTAN, Journal of Environmental Protection and Ecology (2024), Vol. 25, Issue 8, pp. 2710–2724. 4. Dr. G.Narsimlu,Dr.B R Sreedhar,Mr.M Amarnath. Deepa,V Omeshwar Reddy,Dr. Chittepu Obula Reddy,Smart Health Care using Artificial Intelligence-Powered Electronics and Internet of Things, Proceedings of the International Conference on Trends in Material Science and Inventive Materials (ICTMIM-2025)IEEE Xplore Part Number: CFP250J1-ART; ISBN: 979-8-3315-0148-8. 5. M. Venkateswarulu, Kurapati Rajagopal, C. Obula Reddy. S. Reddy, Investigation of ground water contamination due to landfill leachate, IJEP, Volume 42, Issue 7, ISSN-0253-7141,2022(Scopus indexed) 6. Kurapati Rajagopal, Y. S. Reddy, Chittepu Obula Reddy, Impact of various factors on the stability of Biodiesel, JBR, Volume13, Issue 10, ISSN-.1944-3285, pp 64-77,2022. (Scopus indexed). 7. Chittepuobulareddy, Kurapati Rajagopal, Homology Modeling and Drug Designing of Tumor Necrosis Factor14 Involved in Rheumatoid Arthritis, IJPR, Volume, Issue13, ISSN 0975-2366, July-sep2021. 8. Kurapati Rajagopal1, Y.S. Reddy2, ChittepuObulaReddy3Distortion of Ultrasonic Waves in Long – Term Stored Biodiesels and Blends, EuropeanjournalofclinicalandMolecularMedicine, volume7, Issue11, ISSN-2515-8260,2020. (Wos indexed). 9. Chittepuobulareddy, YS Reddy, M. Subhadra, Rajagopal Kurapati (2020), Effect of long-term storage on the fatty acid profile of biodiesel and its impact on the key ultrasonic properties of biodiesel and its blends. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. Taylor and Francis. online Impact factor3.447, Print ISSN: 1556- 7036 Online. (Scopus indexed). 10. Y. sreenivasa Reddy, Chittepu Obula Reddy, Subhadra, Rajagopal Kurapati, (2020) "Long – term storage effect on molecular interactions

- of biodiesels and blends”, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. Taylor and Francis. online Impact factor 3.447, Print ISSN: 1556- 7036 Online. (Scopus indexed).
11. M.V.N.L. Chaitanya, P. Narendra Kumar, C. Obula Reddy, K. Madhuri, K. Shanthi, S Jubie (2019) “In- silico docking studies of phytometabolites from traditional plant Rujamari (*Rosmarinus officinalis*) against human Topoisomerases I&II” in International Journal of Pharmaceutical Research | Oct - Dec 2019 | Vol 11 | Issue 4, ISSN 0975-2366, pp. 918-934. (Scopus indexed)
 12. Obula Reddy Chittepu (2019) “Isolation and characterization of biosurfactant producing bacteria from groundnut oil cake dumping site for the control of foodborne pathogens”, Grain & Oil Science and Technology, Volume1, Issue1, pp.15-20. Elsevier.
 13. Obula Reddy Chittepu, Nathan Vikas Bathula, Krishna Prasad Kata, Nikhila Gopaluni (2019) Evaluation of Random mutations in *Streptomyces peuceticus* and their impact on the of Daunorubicin Journal of Biotech Research, Volume10, Issue10, pp. 223-229. (Scopus indexed).
 14. Chittepu Obula Reddy, Akhila Konda (2019) “Aqueous stem extracts have more antibacterial and antifungal efficacy than its other parts: A *Calotropis gigantea* as a case study”, Journal of Biotech Research, Volume10, Issue 10, pp. 110-115. (Scopus indexed).
 - 11 P. V. Parvati Sai Arun & C. Obula Reddy & Yusuf Akhter (2018) “Uddanam Kidney Nephropathy Under the light of Metagenomics perspective. Springer Nature comprehensive clinical medicine, volume1, pp23-25.
 - 12 Samiksha, Ayushi Sharma, C. Obula Reddy (2018) “Synthesis of Silver Nanoparticles using Plant extracts and their antimicrobial activity against *Klebsiella Pneumoniae*” International Journal of Emerging Technology and Advanced Engineering, Vol-8, Issue 1, January 2018, PP .258-264. (Scopus Indexed).

Papers Presented in National conferences:

1. Presented a paper on Fermentative production of Lactic acid from Lignocellulosic Biomass by mutant *Lactobacillus delbrueckii* in NCB4ebt-2021 conducted by DBT, NITW from 29-01-2021 to 30-01-2021.
2. Presented a paper on “The Sediment Formation in Long-Term Stored Biodiesels and Blends with respect to Fatty Acid Profile of Biodiesel” in NCB4ebt-2021 conducted by DBT, NITW from 29-01-2021 to 30-01-2021.
3. Presented a poster on Research Day, 17-12-2022.

Papers presented in international conferences:

1. Presented a paper on carbomer based hydrogel infused with phytochemical extracts of *Ocimum sanctum* and *Lithospermum officinale* for advanced Diabetic wound healing in the SERB sponsored international conference ,organized by Department of CSE, at Sri Indu college of Engineering and Technology, Hyderabad, Telangana on 4th and 5th April, ICICSET, 2025
2. Presented a paper on effect of freezing and heating on the key fuel properties of long term stored Biodiesel in the proceedings of international e-conference, Applied biosciences for sustainable development, at St Pious X Degree and PG College for Women, Nacharam, Hyderabad, Telangana, 3- 4, September, 2021.
3. Presented a paper on Green Synthesis of Zinc Oxide Nanoparticles Using *Azadirachta Indica* Leaf Extract and its Antibacterial Activity in the proceedings of E conference on Materials processing characterization, ICMPC, 18-19th Sep. 2020.
4. Presented a paper on The Behavior of Ultrasonic Waves in Long – Term Stored Biodiesels and Blends in International conference on advance materials science and applications, MSRIT, Bangalore from 3-4 September, ICAMSA, 2020.



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