

Faculty Profile



CONTACT

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Name: Mrs. T. Chaitanya

Department: Microbiology

Designation: Assistant professor

Qualification: B.Ed., M. Sc (Microbiology), ICAR-NET, GATE

Teaching experience: 12 years

Academic Positions: -

Areas of Interest: Waste management, Nanotechnology, Biochemistry

❖ Publications:

International

1. Akhila Godishala, Chaitanya kumari. S. (2019). Screening different microbial flora and their enzymatic activities during tea waste composting. *International Journal of Scientific Research in Biological Sciences*, 06(01), 50-59. <https://doi.org/10.26438/ijsrbs/v6i1.5059>
2. Supriya G, Chaitanya kumari. S. (2019). Green synthesis of silver nanoparticles using Aloe vera extract and assessing their antimicrobial activity against skin infections. *International Journal of Scientific Research in Biological Sciences*, 06(01), 60-65. <https://doi.org/10.26438/ijsrbs/v6i1.6065>
3. Palugula S. Shivani, Chaitanya kumari. S, Naga Padma P. (2019). Studies on Azo dye degradation using green synthesized nanoparticles. *International Journal of Scientific Research in Biological Sciences*, 06(01), 72-79. <https://doi.org/10.26438/ijsrbs/v6i1.7279>

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4. Padma, P., Banu, S., & Kumari, S. (2018). Studies on Green Synthesis of Copper Nanoparticles Using *Punica granatum*. *Annual Research & Review in Biology*, 23(1), 1–10. doi:10.9734/arrb/2018/38894
5. Naga Padma P, Chaitanya Kumari. S, Syed Thanveer Banu. (2018). Effect of Diverse Factors on Green Synthesis of Copper Nanoparticles, *Int. J. of Life Sciences*, 6(2),659-664.
6. Chaitanya kumari. S and Naga Padma. P. (2018). Green campus – a multifaceted eco-friendly green practice approach. *New Man International Journal of Multidisciplinary Studies*.
7. Chaitanya kumari. S. (2017). Studies on Bilimbi. *International journal of all research education and scientific methods*, 5(7), 63-67.
8. Chaitanya kumari. S, Naga Padma. P. (2016). Screening studies for efficient xylanolytic isolates from diverse sources. *International Journal of Advanced Research in Science, Engineering and Technology*,3(7), 2428-2433.
9. Chaitanya kumari. S, Naga Padma. P. (2016). Stability Studies on Ascorbic Acid content in various fruits, Vegetables and their Cocktail Juices. *International journal for research in emerging science and technology*, 3(12), 35-39.

National

1. Chaitanya Kumari. S, Naga Padma. P. (2020). A facile, green approach for enhanced synthesis of silver nanoparticles by *Weissella confusa* produced dextran. *Plant Archives*, 20(1), 1598-1602.
2. Kumari SC., Padma PN., & Anuradha K. Green Silver Nanoparticles Embedded in Cellulosic Network for Fresh Food Packaging. *J Pure Appl Microbiol*. Published on June 28, 2021. doi: 10.22207/JPAM.15.3.13
3. Kumari SC, Selvakumar V, Naga Padma P, Anuradha K. (2021) Optimization Studies on Green Synthesis of Silver Nanoparticles from different Plant Extracts Using Taguchi Design. *Indian Journal of Science and Technology*. 14(38):2888-2898. <https://doi.org/10.17485/IJST/v14i38.1065>

PATENTS

1. Method of processing dextran for handmade paper (Publication-3-12-2021, Application No.-202141052150)

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Book chapter

1. Vivek Dhand, Chaitanya kumari. S, Naga Padma. P. (2021). Green synthesis of metallic nanoparticles: a review. *Nanomaterials: Applications in biofuels and bioenergy production systems*, (259-274).

❖ Papers presented:

International

1. Optimization Studies on Green Synthesis of Silver Nanoparticles from different Plant Extracts -
International Conference On “Advances in Microbial Technologies and Bio-therapeutics organized by Department of Microbiology, Osmania University (AMTB-2020).
2. Studies on antibacterial activity of green synthesized silver nanoparticles using different plant extracts-
International conference on Bioengineering on Health and Environment organized by Satyabhama Institute of science and technology, Chennai, ICBHE 2018.
3. Stability studies on Ascorbic Acid content in various fruits, vegetables and their cocktail juices-
International Conference on Microbiology, Agriculture & Environmental Sciences organized by IMRF, St. Pious x Degree & PG College. (Sep 01-03,2016).

National

2. AgNPs coated handmade paper/pads from solid agro waste and its applications –
One day 3rd National Seminar on 'Current Trends in Life Sciences (NSCTLS-2021) 'organized by Amity Institute of Biotechnology, Amity University Gwalior in association with National Academy of Sciences, India (NASI), Bhopal Chapter and Society of Life Sciences (SLSc) (29th January, 2021).
2. Studies on antibacterial activity of green synthesized silver nanoparticles against food-borne pathogens-

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One day national seminar on “Recent trends in plant disease management” organized by Indian Phyto pathological society, IARI and Department of microbiology, Kakatiya University, Warangal (28th Dec 2018).

3. Green synthesized silver nanoparticles impregnated in cellulosic fibers for perishable food packaging-

Two-day national seminar on “Food safety, quality and policy” organized by department of microbiology, Government Degree & PG college, Gajwel, Siddipet. (2018).

4. Green campus – a multifaceted eco-friendly green practice approach -

National Seminar on “Revised NAAC Framework: The Road Ahead Towards Excellence in Quality Education” organized by Bhavans Vivekananda college, Sainikpuri (2018).

5. Green Synthesis of Silver nanoparticles using Aqueous Leaf extract of *Azadirachta indica* –

Two-day National seminar UGC DRS –I (SAP) on Frontiers in Microbial Biotechnology organized by Department of Microbiology, Osmania University. (22nd & 23rd Feb 2017).

❖ Awards/ Recognitions:

- Certificate of excellence in reviewing. Awarded to S. Chaitanya Kumari in recognition of an outstanding contribution to the quality of the journal. Annual research and review in biology 2020.certificate no: SDI/HQ/PR/Cert/57024/MRS.

❖ Workshops/ Refresher courses /Training programs Attended:

Workshops:

- a. Participated in the live online certificate webinar on Advanced teaching-learning methods, Curriculum design, examination reforms and setting question paper on 4th May 2020 Organized by STARTCORE TECHNOLOGIES.

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- b. Participated in the live online certificate webinar ON PATENT DRAFTING AND FILING CONDUCTED ON 20TH APRIL 2020 Organized by STARTCORE TECHNOLOGIES
- c. Participated and completed THREE DAY ONLINE WORKSHOP ON “Online Course Design, Development and Delivery” organized by Human Resource Development Centre, University of Hyderabad during May, 26-28, 2020. Certificate Id: 2020-02-00-061
- d. Participated in the LIVE Online Certificate Webinar on "PREPARATION OF RESEARCH PROPOSALS TO FUNDING AGENCIES" Organized by STARTCORE TECHNOLOGIES on 27th April 2020
- e. Participated in State level workshop on “Extraction and detection of mycotoxins from various food samples” 11th Nov,2019 organized by Department of Microbiology, St. Pious X degree & PG college, sponsored by Association of Microbiologists of India (AMI).
- f. Regional workshop on Research based pedagogical tools held in National Institute of Science Education and Research (NISER), Odisha 27th to 29th oct. 2017.Funded by DBT, IISER, MHRD, NISER.

Faculty development Programme (FDP):

- Participated in online National level FDP on Creation of webinars during COVID-19 on 14th Apr 2020 organized by department of computer science, Little flower college, Uppal.
- Participated and completed the one-week FDP on online training on “LaTeX” organized by Sanjay Ghodawala University, Kolhapur in association with Spoken tutorials project, IIT Bombay on 27th Apr-2nd May 2020.
- NPTEL Online Course-Organic farming for sustainable agricultural production- funded by Ministry of HRD, Govt. of India, with 58 %. 2020. Roll no: NPTEL20AGO5S31600914.
- NPTEL Online Course-Biomedical Nanotechnology funded by Ministry of HRD, Govt. of India, (2019).
- NPTEL Online course (2018: 8-week course-March) on Bioenergy, funded by Ministry of HRD, Govt. of India, with 66%. Roll no.-NPTEL18BT15S4390102.
- NPTEL Online course-plastic waste management funded by Ministry of HRD, Govt. of India, with 80% Roll no-NPTEL19CEO7S61451040 (2018).

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- State level Faculty Development Programme on “Research process, Publications, Evaluation & challenges in Research” organized by Dept. of MCA, Loyola Academy Degree & PG College, Alwal on 21st October 2017.
- Participated in the webinar on “Advanced Topics in Life Sciences”, under the CSIR Integrated Skill Initiative, conducted by CSIR - Centre for Cellular and Molecular Biology, Hyderabad, India, from 8-12 February 2021.
- Participated in online National level Webinar on Sensitization of Research Metrics, Ethics & IPR from 20th-22nd Aug 2021 organized by The Internal Quality Assurance Cell(IQAC), Sangamner, Nagarpalika Arts, D.J .Malpani Commerce & B.N. Sarda Science College, Sangamner, Maharashtra.
- Participated in online National level Webinar on Plagiarism, Citation and Reference in social sciences research on 3rd Sep 2021 organized by PG and Research Department of Commerce, St Alphonsa college of Arts and Science, Kanya Kumari, Tamil Nadu.
- Participated in International Faculty development programme (virtual) on Recent trends in transforming life sciences - Focus on academia & industry symbiosis from 13th -18th Sep 2021, organized by Department of Biotechnology, Nizam college, Osmania university in association with Government city college and Loyola academy, Hyderabad.
- Certificate of Appreciation Is presented to T Chaitanya Bhavans Vivekananda College of science, humanities and commerce For participating as a Faculty Coordinator for the "MANAV Scientific Reading and Comprehension Self-Assessment Module (for students)", conducted by Project MANAV– The Human Atlas Initiative in September to October 2021.

Training programs

- Participated in five-day, Hand on training program on “Downstream Bioprocess Development” at KIIT-Technology business incubator, Bhubaneshwar from Jan 20-24, 2020.Organised by KIIT-TBI and BCIL for National biopharma mission, DBT, Govt. of India.
- Successfully completed and qualified the exam of One Week STTP on Advanced Research Methodology from 11 May, 2020 to 15 May, 2020 organized by REST Society for Research International (RSRI), Krishnagiri, Tamil Nadu, India. Certificate No: AAF0725.

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❖ **Membership of Professional Bodies:**

Life Member of Association of Microbiologists of India, AMI (4591-2017)