

Dr. Sudha SAHU

Assistant Professor, Department of Zoology
Govt. Tulsi Degree College, Anuppur (M.P.), India – 484224
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[Google Scholar](#)

PROFESSIONAL SUMMARY

Assistant Professor with research interests spanning climate-smart agriculture, soil pollution management, biofertilizer/biochar development, and community-based disaster risk management.

CURRENT APPOINTMENT

DEC 2024 – PRESENT | *Assistant Professor, Department of Zoology, Govt. Tulsi Degree College, Anuppur (M.P.), India – 484224*

ACADEMIC APPOINTMENTS

DEC 2019 – DEC 2024 | *Assistant Professor, Department of Zoology, Govt. Kamla Nehru Girls College, Balaghat (M.P.), India – 481001*

JAN 2011 – JAN 2014 | *UGC-MRP Project Fellow, Department of Biotechnology, Guru Ghasidas Central University, Bilaspur (C.G.), India – 495001*

EDUCATION

JULY 2022 | **Ph.D.**, School of Agro and Rural Technology, IIT Guwahati, Assam
Thesis: “Unravelling the characteristics of beneficial bacteria isolated from a polluted site and their application in soil quality enhancement”
Advisor: Prof. Sudip MITRA
CPI: 9.5/10

JULY 2015 | **B.Ed.**, Barkatullah Vishwavidyalaya, Bhopal (M.P.)
PERCENTAGE: 72.4%

JULY 2011 | **M.Sc. (Biotechnology)**, Guru Ghasidas Central University, Bilaspur (C.G.)
Thesis: “Study on extraction and characterization of acacia lignin and its biotransformation by *Phanerochaete chrysosporium*”
Advisor: Prof. B. N. TIWARY
PERCENTAGE: 71.53%

JULY 2009 | **B.Sc. (Microbiology)**, Guru Ghasidas Central University, Bilaspur (C.G.)
PERCENTAGE: 68.13%

AWARDS AND COMPETITIVE QUALIFICATIONS

JUNE 2017 | CSIR-UGC NET, JRF (Life Sciences): All India Rank 25

JUNE 2017 | MPPSC-SET (Life Sciences): Qualified

MAR 2017 | GATE (Biotechnology): AIR 921; Percentile: 88

MAR 2016 | GATE (Biotechnology): AIR 1138; Percentile: 88

PUBLICATIONS

Refereed Journal Articles

- JAN 2022 | Bacterial strains found in the soils of a municipal solid waste dumping site facilitated phosphate solubilization along with cadmium remediation,
Sahu et al.,
Chemosphere (<https://doi.org/10.1016/j.chemosphere.2021.132320>)
- JUN 2014 | Free radical scavenging activity and reducing power of *Acacia nilotica* wood lignin,
Aadil K. R., Barapatre A., **Sahu S.**, Jha H., Tiwary B. N.,
International Journal of Biological Macromolecules
(<https://doi.org/10.1016/j.ijbiomac.2014.03.040>)
- MAR 2013 | Value added products from agrowaste,
Barapatre A., **Sahu S.**, Aadil K., Jha H.,
Recent Research in Science and Technology (Available online)

Conference Presentations / Proceedings / Posters

- APR 2021 | Bacterial strain isolated from a municipal dumping site showed potentials for integrated solutions: phosphate solubilisation along with heavy metals remediation in soil,
Sahu S. et al.,
International Conference on Biotechnology for Sustainable Agriculture, Environment and Health, MNIT Jaipur, Rajasthan, India
- DEC 2020 | Characterization of phosphate solubilizing bacteria isolated from municipal solid waste dumping site soils,
Sahu S., Mitra S.,
2nd Engineering Sustainable Development Conference (Virtual)
- MAR 2020 | Effect of biofertilizer on crop productivity and soil quality,
Sahu S., Mitra S.,
Poster presentation at Research Conclave, IIT Guwahati, India
- AUG 2012 | Study of antioxidant activities of lignin extracted by various methods,
Sahu S.,

National Seminar on “Recent Trends in Chemical Research: Challenges Ahead”, Guru Ghasidas Central University, Bilaspur (C.G.), India

MAR 2012 | National Symposium on “Extraction, Characterization and Bio-transformation of Lignin from Paddy”,
National Symposium, 29 March 2012, Guru Ghasidas Central University, Bilaspur (C.G.), India

ACADEMIC EVENT ORGANIZED

MAY 2025 | One-Day National Webinar on “Disaster Management and Modern Communication Media”
Organized by: Government Kamla Nehru Girls College, Balaghat (M.P.)
In association with: Department of Higher Education, Government of Madhya Pradesh, Bhopal

WORKSHOPS, SEMINARS AND SYMPOSIA ATTENDED

JAN 2025 | Two-day Workshop on “Laboratory Equipment Care and Maintenance”
Govt. Tulsi College, Anuppur – Prime Minister College of Excellence (M.P.)
In association with the Department of Higher Education, Government of Madhya Pradesh, Bhopal

DEC 2023 | District Level One-Day Red Ribbon Club Orientation Workshop (AIDS Prevention and Control)
District Balaghat (M.P.)
Organized by: District AIDS Prevention and Control Unit, CMHO, Balaghat

MAR 2023 | Two-Day National Seminar on “Recent Trends in Biotechnology and Health: Opportunities and Challenges”
Govt. Kamla Nehru Girls College, Balaghat (M.P.)
Paper presented: “Sustainable approaches to the formulation of herbal based hand sanitizers: a step towards sustainability”

MAR 2019 | 20th Indo-US Flow Cytometry Symposium and Workshop
C-CAMP supported program, IIT Guwahati, Assam

NOV 2017 | Sensitization Workshop on “Technological Empowerment of Women”
IIT Guwahati, Assam
Organized by: IIT Guwahati in association with the National Academy of Sciences, India

AUG 2013 | National Workshop on “Alternatives to Use of Animal Sacrifice in Life Science Education for Teachers”

Department of Zoology, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)
Organized by: Guru Ghasidas Vishwavidyalaya, Bilaspur

JUL 2011 | Five-day Workshop on “How to Write Research Papers and Project Proposals”
Guru Ghasidas Central University, Bilaspur (C.G.)

FACULTY TRAINING AND PROFESSIONAL DEVELOPMENT

JAN 2024 | NEP 2020 Orientation & Sensitization Programme
UGC–Malaviya Mission Teacher Training Centre, Banaras Hindu University, Varanasi (U.P.)
Under Malaviya Mission Teacher Training Programme (MM-TTP), UGC, Government of India

SEP 2021 | Two-Week Refresher Course in “Life Sciences”
Teaching Learning Centre, Ramanujan College, University of Delhi
In collaboration with Miranda House, University of Delhi; Grade: A+

AUG 2020 | Two-Week Faculty Development Programme on “Quantitative Methods for Data Analysis”
Teaching Learning Centre, Ramanujan College, University of Delhi;
Grade: A+

JUL 2020 | Four-Week Induction / Orientation Programme for Faculty in Universities, Colleges and Institutes of Higher Education
Teaching Learning Centre, Ramanujan College, University of Delhi;
Grade: A+

(YEAR) | Entrepreneurship-cum-Skill Development Programme on Biotechnology (45 days)
Ministry of Micro, Small and Medium Enterprises (MSME), Government of India

E-CONTENT DEVELOPMENT

2022 | Preparation of e-content module for B.Sc. III (Zoology): “Morphology, Respiratory, Digestive and Excretory Systems of Amphioxus”
e-Shiksha LMS Portal, Department of Higher Education, Government of Madhya Pradesh
Office of the Commissioner, Higher Education, Madhya Pradesh

TEACHING (UG & PG COURSES)

Cell Biology; Molecular Biology; Invertebrate and Vertebrate Biology; Limnology; Genetics; Immunology; Aquaculture