

NAVDEEP SIDHU
Assistant Professor
Department of Biotechnology
GGDSD COLLEGE Chandigarh
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DOB: 25th June 1976



Educational Qualifications

MSc (Fermentation & Microbial Technology) Department of Microbiology, Guru Nanak Dev University (Amritsar), India (1997-1999)
BSc (Industrial Microbiology) Department of Microbiology, Guru Nanak Dev University (Amritsar), India (1994-1997)
CSIR UGC NET June 2011 qualified
Pursuing PhD (Faculty of Applied sciences) IKGPTU, Kapurthala ; Registration No. 2125001

Teaching/Research Experience

- 20th August 2024- till date **Assistant Professor (Adhoc)** in Department of Biotechnology, GGDSD College, Chandigarh
Teaching Foundations of Biotechnology, Basic Microbiology and Biosafety.
- 2nd August 2023 to 22nd April 2024 **Assistant Professor (Contractual Basis)** in Department of Biotechnology, Sri Guru Gobind Singh College, Sec 26 Chandigarh.
Taught Microbial Biodiversity, Enzymology, Microbial Diagnostics, Fermentation Technology, Food Biotechnology, Industrial Biotechnology to Graduate and Post Graduate students.
- 2nd August 2022 to 29th April 2023 **Assistant Professor (Contractual Basis)** in Department of Biotechnology, Sri Guru Gobind Singh College, Sec 26 Chandigarh.
Taught Microbial Biodiversity, Enzymology, Microbial Diagnostics, Fermentation Technology, Environment Biotechnology, Agro & Industrial Biotechnology to Graduate and Post Graduate students.
- 14th September 2021 to 31st May 2021 **Assistant Professor (Contractual Basis)** in Department of Biotechnology, Sri Guru Gobind Singh College, Sec 26 Chandigarh.
Taught Microbial Biodiversity, Microbial Biochemistry, Enzymology, Microbial Diagnostics, Fermentation Technology, Environment Biotechnology, Agro & Industrial Biotechnology to Graduate and Post Graduate students.
- 18th September 2020 to 29th April 2021 **Assistant Professor (Contractual Basis)** in Department of Biotechnology, Sri Guru Gobind Singh College, Sec 26 Chandigarh.
Taught Microbial Biodiversity, Enzymology, Microbial Diagnostics, Biochemistry, Fermentation and environment Biotechnology, Genetic Engineering, Immunology, IPR to Graduate and Post Graduate students.
- 18th September 2020 to 29th April 2021 **Assistant Professor (Contractual Basis)** in Department of Biotechnology, Sri Guru Gobind Singh College, Sec 26 Chandigarh.
Taught Microbial Biodiversity, Enzymology, Microbial Diagnostics, Biochemistry, Fermentation and environment Biotechnology, Genetic Engineering, Immunology, IPR to Graduate and Post Graduate students.

- 1st August 2019 to 30th April 2020 **Assistant Professor (Contractual Basis)** in Department of Biotechnology, Sri Guru Gobind Singh College, Sec 26 Chandigarh. Taught Microbial Diagnostics, Enzymology, Fermentation Technology, Plant and Animal Tissue culture, Environment Biotechnology, Recombinant DNA Technology and Immunology, IPR to Graduate and Post Graduate students.
- 1st August 2018 to 30th April 2019 **Assistant Professor (Contractual Basis)** in Department of Biotechnology, Sri Guru Gobind Singh College, Sec 26 Chandigarh. Taught Microbial Diagnostics, Enzymology, Environment & Fermentation Technology, Plant and Animal Tissue culture, Environment Biotechnology, Genetics, Recombinant DNA Technology and Immunology, IPR to Graduate and Post Graduate students.
- 18th August 2017 to 31st May 2018 **Assistant Professor (Contractual Basis)** in Department of Biotechnology, Sri Guru Gobind Singh College, Sec 26 Chandigarh. Taught IPR, Enzymology, Environment & Fermentation Technology, Plant and Animal Tissue culture, Environment Biotechnology, Genetics, Recombinant DNA Technology and Immunology to Graduate and Post Graduate students.
- 7th May 2004 to 5th May 2017 **Assistant Professor and Head of Department (Regular Basis)** Biotechnology & Medical Laboratory Sciences, CT Group of Institution, Shahpur Campus, Jalandhar. Taught General Microbiology, Principles of Microbiology, Food Biotechnology, Fermentation Technology, Techniques in Biotechnology, Immunology, Clinical Microbiology, Clinical Hematology Graduate and Post Graduate students.
- 16th August 2000 to 6th May 2004 **Lecturer and Head of Department (Regular Basis)** Medical Laboratory Technology, BIS Institutions, Kot Ise Khan-Gagra (Moga). Taught Clinical Microbiology, Clinical Hematology and Clinical Biochemistry to Diploma and Graduate students.

Areas of Interest

Publications

(Journal/Book Chapters)

- Microbiology, Environment Biotechnology, Bioremediation.
- Journal Publications:**
- Navdeep Sidhu, Mandeep Sidhu, SK Munshi: Assessment of Some Physicochemical Parameters of Industrial Effluent in Drains of Doaba Region (Punjab), International Journal of Pharmaceutical Research, E-ISSN: 0975-2366 Vol 15, Issue 2, pp 6-12, Apr - Jun 2023.
 - Rajveer Kaur, Navdeep Sidhu, Gurjot Kaur Mavi: Estimation and removal of heavy metal from industrial sludge by bacterial strain, Journal of entomology and zoology studies, E-ISSN: 2320-7078, volume 9, Issue 1 p-1045-1050, (2021).
 - Navdeep Sidhu, S K Munshi: Impact of Industrial Effluent collected from Doaba region on elemental content of soil and its accumulation in crops, IJRAR, E-ISSN 2348-1269, May 2018, Volume 5, Issue 2, pp 384-393.
 - Navdeep Sidhu, Yuvneet Rai, Maninder Kaur, Ashna Gupta: Isolation & Characterization of Several Strains of Naphthalene Degrading Bacteria obtained from oil-contaminated sites, IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS,) e-

ISSN: 2278-3008. Volume 5, Issue 2, pp 23-28 (Jan. – Feb. 2013).

- Yuvneet Rai, Maninder Kaur, Harman Garcha, Navdeep Sidhu Isolation and identification of moderately Thermophilic Iron-Oxidizing & Sulphur-Oxidizing Bacteria at Indian Sub-Continent, IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS), e-ISSN: 2278-3008. Volume 5, Issue 4, pp 19-24, (Mar. – Apr. 2013)

**Seminars/
Conferences/Symposiums
(Paper Presented)**

- Presented paper on ‘Analysis of soil near drains around Jalandhar region’ at International Conference on Sciences, Engineering and Technical Innovations organized by CT Institute of Technology/IKGPTU/Indian National Science Academy.
- Presented a paper on ‘Assessment of physico-chemical parameters of industrial waste water in northern region of Punjab’ at International Multi Track Conference on Sciences, Engineering and Technical Innovations organized by CT Institute of Engineering, Management & Technology.
- Presented paper on ‘Bioremediation of Industrial waste water with *Bacillus subtilis*’ International Multi Track Conference on Sciences, Engineering and Technical Innovations organized by CT Institute of Engineering, Management & Technology.
- Presented paper on ‘Impact of soil pollution on nutrient quality of wheat: a case study’ International Conference on Sciences, Engineering and Technical Innovations organized by CT Institute of Technology/IKGPTU/Indian National Science Academy.
- Poster presentation on ‘Influence of Industrial effluent on soil’ Recent advances in microbial biotechnology: Application in industry and society organized by PG department of Biotechnology at Lyallpur Khalsa College, Jalandhar.
- Poster presentation on ‘Quality Assessment of waste water in Doaba region’ International Conference on Industrial Biotechnology & IX Convention of The Biotech Research Society, India & Indo Italian Workshop on Food Biotechnology: Industrial Processing, Safety and Health, organized by Department of Biotechnology, Punjabi University, Patiala

**Refresher
Courses/Workshops/
Training Programmes**

- NEP orientation and sensitization programme organized by SGT Khalsa College, University of Delhi, 16th April to 26th April 2024.
- NEP orientation and sensitization programme organized by Punjab University, Chandigarh, 5th March to 15th March 2024.
- One week Faculty Development Programme "Latest Trends in Research, Innovation and Entrepreneurship" organized by LKC Technical Campus, Jalandhar, 23rd June to 29th June 2023,
- AICTE sponsored Short Term Course on Curriculum Development through ICT organized by CT Polytechnic College, Shahpur, 6th Feb to 10th Feb 2017.

Invited Talks

Projects

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MOOCS/Online Content •
M.Phil Dissertation
Supervised

MSc Dissertation / Major
Projects Supervised

- Degree awarded: MSc Microbial Biotechnology-15
MSc Biotechnology -20

Administrative Experience

- Active member in compilation of documents (Criteria –V) for NAAC re- accreditation cycle
- Actively involved in performing duties assigned for smooth conduct of various events, fest, managing discipline and cleanliness in campus (SGGS, Sec 26 Chandigarh).
- Organized Cultural Festival, Sports Day, Tech Fest and other activities in CT Institutes and Baba Isher Singh Institutes, Moga.
- Actively participated in counseling program of college (2004-2016).
- Received appreciation award for achieving 100% result in May 2007 from CT group of Institution.
- Member of Organizing committee for Youth festival. Convocation and International Conferences (2000-2016).
- Member for Board of Studies from 2001-2003 for B.Sc. MLT (PTU, Kapurthala).
- Successfully conducted Punjab State Board of Technical Education (PSBTE & IT, Sec 36-A Chandigarh) Exams as Superintendent 2004-2016 (CT Polytechnic College, Shapur) and as Deputy Superintendent (2001-2004) in BIS Institute, KIK-Gagra (Moga).
- Girls Hostel Warden KIK Moga from 2000-2004

**Membership of Economic
Associations**

- Life time membership INDIAN SCIENCE CONGRESS ASSOCIATION; Membership No. L 23545

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