

Profile Page



Name : Dr Nitai Basak
Designation : Associate Professor
Department : Bio-Technology
Qualification : Ph.D Biotechnology (NIT Jalandhar)
M.Tech Biotechnology (IIT Kharagpur)
B.Tech (University of Calcutta)
Email : basakn@nitj.ac.in

Research Interests :

Bioprocess Engineering, Bioprocess optimization, Bioreactor Design, Biological Hydrogen production, Bioremediation, Biofuels, Biomaterials, Bioplastics and Biopolymers, Bio Separation Engineering, Computational Fluid Dynamics Simulation in Bioprocess and Bioreactor, Environmental Biotechnology, Enzyme and Protein Engineering, Microbial production of enzymes/proteins and their purification, Metabolites and Biorefinery, Molecular docking and Drug design

Other Profile Links :

Google Scholar Link :

Dr. NITAI BASAK [Click Here](#)

Journal Publications :

Year	Journal	Publication
2022	Frontiers of Environmental Science & Engineering 16 (12), pp 1-22	Shilpa, Nitai Basak and Sumer Singh Meena, Microbial biodegradation of plastics: Challenges, opportunities, and a critical perspective
2022	Bioprocess and Biosystem Engineering (ISSN: 1615-7605), Springer Nature, 2022, pp 1-30	Varsha Jayachandran, Nitai Basak, Roberto De Philippis, Alessandra Adessi, Novel strategies towards efficient molecular biohydrogen production by dark fermentative mechanism: present progress and future perspective, published online 17th June 2022
2022	Applied Biochemistry and Biotechnology (ISSN: 0273-2289), Springer Nature, 1-31	Raman Rao and Nitai Basak, Sequential dark-photo batch fermentation and kinetic modelling for biohydrogen production using cheese whey as a feedstock, published online 14th May 2022
2022	Bioprocess and Biosystem Engineering (ISSN: 1615-7605) Springer Nature, 2022, published online 23rd December	Varsha Jayachandran, Nitai Basak, Optimization of dark fermentative biohydrogen production from rice starch by <i>Enterobacter aerogenes</i> MTCC 2822 and <i>Clostridium acetobutylicum</i> MTCC 11274, 2022, Impact factor:3.434
2022	Materials Today Proceedings (ISSN: 2214-7853), Elsevier, 2022, pp. 1-9,	Shilpa, Nitai Basak and Sumer Singh Meena, Exploring the plastic degrading ability of microbial communities through metagenomic approach

2022	Biomass Conversion and Biorefinery (ISSN: 2190-6823), Springer Nature, pp. 1-20	Satya Ranjan Das and Nitai Basak, Optimization of process parameters for enhanced biohydrogen production using potato waste as substrate by combined dark and photo fermentation
2021	Biotechnology and Applied Biochemistry (ISSN: 0885-4513), Wiley, Vol 68, Issue 3, pp 421-444	Raman Rao and Nitai Basak, Development of novel strategies for higher fermentative biohydrogen recovery along with novel metabolites from organic wastes: The present state of the art,
2021	Applied Biochemistry and Biotechnology (ISSN: 0273-2289) 193, Springer Nature, pp 2297-2330	Raman Rao and Nitai Basak, Fermentative molecular biohydrogen production from cheese Whey: present prospects and future strategy
2021	Biomass Conversion and Biorefinery (ISSN: 2190-6823), Springer Nature, pp 1-24	Raman Rao and Nitai Basak, Process optimization and mathematical modelling of photo-fermentative hydrogen production from dark fermentative cheese whey effluent by Rhodobacter sphaeroides O.U.001 in 2-L cylindrical bioreactor
2021	Biotechnology and Applied Biochemistry (ISSN: 0885-4513), Wiley, pp 1-15	Nitai Basak, Asim Kumar Jana and Debabrata Das, Photofermentative biohydrogen generation from organic acids by Rhodobacter sphaeroides O.U.001: CFD modelling of hydrodynamics and temperature
2021	International Journal of Hydrogen Energy (ISSN: 0360-3199), Elsevier, Vol 46, pp , 1777-1800	Raman Rao and Nitai Basak, Optimization and modelling of dark fermentative hydrogen production from cheese whey by Enterobacter aerogenes 2822,
2021	Bioprocess Biosystem Engineering (ISSN: 1615-7605), Volume 44, pp 1-25	Satya Ranjan Das and Nitai Basak, Molecular biohydrogen production by dark and photo Fermentation from wastes containing starch: recent advancement and future perspective.
2016	International Journal of Hydrogen Energy, Elsevier	CFD modeling of hydrodynamics and optimization of photofermentative hydrogen production by Rhodospseudomonas palustris DSM123 in annular photobioreactor
2016	Intellectual Property Issues in Biotechnology (ISBN: 13:978 1 78064 653 4)	Leishmaniasis: Drug Development and Intellectual Property Issues
2014	International Journal of Hydrogen Energy,(ISSN: 0360-3199), Elsevier	Optimization of molecular hydrogen production by Rhodobacter sphaeroides O.U.001 in the annular photobioreactor using response surface methodology
2014	International Journal of Hydrogen Energy (ISSN: 0360- 3199), Elsevier	Photofermentative molecular biohydrogen production by purple-non-sulfur (PNS) bacteria in various modes: the present progress and future perspective
2009	Biomass and Bioenergy (ISSN: 0961-9534), Elsevier	Photofermentative hydrogen production using Purple non sulfur bacteria Rhodobacter sphaeroides O.U.001 in an annular photobioreactor: A case study
2007	Proceeding of The World Congress on Engineering & Computer Science (ISBN: 978988-9867164)	Microbial biohydrogen production by Rhodobacter sphaeroides O.U.001 in photobioreactor
2007	World Journal of Microbiology and Biotechnology, (ISSN: 0959-3993) Springer link	The prospect of purple non-sulfur photosynthetic bacteria for hydrogen production: the Present state of the art
2004	LEATHER International,(ISSN: 1473-6314) U.K	New approach for processing eco friendly Garment Leather
1999	World Leather,(ISSN: 0894-3087) U.K	Replacing Chrome by Aluminium Retannages in Suede and Nubuck Leather

Conference Publications :

Year	Conference	Publication
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2023	International UKIERI Concrete Congress Sustainable Concrete Infrastructure, held on 14 - 17 March 2023, NIT Jalandhar	Nitish Kr Prajapati, Arvind K Agnihotri, Nitai Basak, "Microbial induced calcite precipitation (MICP) a sustainable technique for stabilization of soil: a review"
2022	3rd International Conference on Recent Advances in Bioenergy Research, ICRA BR-2022, March 09-11, 2022, SSS-National Institute of Bio Energy, Kapurthala, ISBN 978-93-84935-73-4, pp 81.	Gaganpreet Kaur, Nisha Yadav, Nitai Basak and Sachin Kumar, "Comparative Study of Mesophilic and Thermophilic Consortium for Biogas Production"
2022	International Conference of Recent Advances in Biotechnology", ICRA B-2022, December 02-04, 2022, NIT Jalandhar	Gaganpreet Kaur, Nisha Yadav, Nitai Basak and Sachin Kumar, "Enrichment of thermophilic consortium"
2022	International Conference of Recent Advances in Biotechnology", ICRA B-2022, December 02-04, 2022, NIT Jalandhar	Atmaja Shindhe and Nitai Basak, "Kinetic modeling for biohydrogen production from fruit wastes: recent advances"
2022	International Conference of Recent Advances in Biotechnology", ICRA B-2022, December 02-04, 2022, NIT Jalandhar	Devu P and Nitai Basak, "Vegetable waste as a substrate for biohydrogen production: recent advancements and future perspective"
2021	International conference on Advance in sustainable research for energy and environment management held on 6th-8th August, 2021, National Institute of Technology, Surat (SVNIT)	Shilpa, Nitai Basak and Sumer Singh Meena, "Role of Microbial Enzymes in Plastic Biodegradation: Insights and Opportunities"
2021	2nd International Conference on Chemical, Bio & Environmental Engineering (CHEMBIOEN-2021), August 20-22, 2021, NIT Jalandhar	Shilpa, Nitai Basak and Sumer Singh Meena," Microbial degradation of conventional polyethylene waste: current status and future prospective"
2021	2nd International Conference on Chemical, Bio & Environmental Engineering (CHEMBIOEN-2021), August 20-22, 2021, NIT Jalandhar	Varsha J and Nitai Basak, "Fuel of the future-Biohydrogen Production: Current Strategies & Future Prospects"
2019	2nd International Conference on "Application of Biotechnology in Industry and Society (ABIS 2019), NIT Jalandhar	Prabhjeet Kaur and Nitai Basak, "Preservation of cosmetic products against microbial growth: current perspectives, ISBN: 978-93-88237-93-2, pp 71
2019	2nd International Conference on "Application of Biotechnology in Industry and Society (ABIS 2019), NIT Jalandhar	Shilpa, Nitai Basak and Sumer Singh Meena, "Deterioration of polyethylene by microbial Consortia isolated from a dumpsite waste", ISBN: 978-93-88237-93-2, pp 49
2019	2nd International Conference on "Application of Biotechnology in Industry and Society (ABIS 2019), NIT Jalandhar	Bharti Arora and Nitai Basak, "Media optimization for the production of lovastatin, a therapeutic drug, by Aspergillus terreus MTCC 18031 using Response Surface methodology", ISBN: 978-93-88237-93-2, pp 39
2019	2nd International Conference on "Application of Biotechnology in Industry and Society (ABIS 2019), NIT Jalandhar	Satya Ranjan Das and Nitai Basak, "Fermentative biohydrogen production in various operational modes using starch-containing substrate", ISBN: 978-93-88237-93-2, pp 38.
2019	2nd International Conference on "Application of Biotechnology in Industry and Society (ABIS 2019), NIT Jalandhar	Raman Rao and Nitai Basak, "Significance of statistical design in optimizing the critical Process parameters of fermentative hydrogen production: feasibility and present state of the art ", ISBN: 978-93-88237-93-2, pp 37.
2018	71st Chemical Engineering Congress, CHEMCON 2018	Raman Rao and Nitai Basak, "Potential recovery and utilization of fermentative liquid waste produced during fermentative biohydrogen production: Biorefinery approach", paper ID: CHO 760, pp 773

2018	71st Chemical Engineering Congress, CHEMCON 2018	Satya Ranjan Das and Nitai Basak, "Biohydrogen production from starchy waste by microbial Fermentation", paper ID: CHO 761, pp 775
2018	71st Chemical Engineering Congress, CHEMCON 2018	Shilpa, Nitai Basak, Sumer Singh Meena, "Microbial degradation of plastic waste materials: a step towards plastic free environment", paper ID: CHP 628, pp 630
2016	Application of Biotechnology in Industry and Society (ABIS 2016), NIT Jalandhar, ISBN 978-93-85777-58-5, pp 58.	"Maximizing thermophilic hydrogen production from different non conventional biomass: current status and future aspect"
2016	Application of Biotechnology in Industry and Society (ABIS 2016), NIT Jalandhar, ISBN 978-93-85777-58-5, pp 33	Study on optimization of extracellular alkaline lipase from <i>Aspergillus fumigates</i> MTCC 9657
2016	Application of Biotechnology in Industry and Society (ABIS 2016), NIT Jalandhar, ISBN 978-93-85777-58-5, pp 32	Study on lipase production in fed batch submerged system using <i>Aspergillus fumigatus</i> MTCC 9657 by olive oil induction
2016	Application of Biotechnology in Industry and Society (ABIS 2016), NIT Jalandhar, ISBN 978-93-85777-58-5, pp 25	Computer-aided drug design of some novel inhibitors against beta-lactamase of <i>Pseudomonas aeruginosa</i> enzyme (GES-2) via molecular docking and virtual screening approach
2016	Application of Biotechnology in Industry and Society (ABIS 2016), NIT Jalandhar, ISBN 978-93-85777-58-5, pp 21	Study on development of effective inhibitor for heat shock protein 90 (HSP 90) as potential anti-cancer drug against breast cancer
2016	Application of Biotechnology in Industry and Society (ABIS 2016), NIT Jalandhar, ISBN 978-93-85777-58-5, pp 16	Computational fluid dynamic study of flow behavior in cylindrical and conical flask geometry
2016	2nd International Conference on Recent Advances on Bioenergy Research (ICRABR 2016), SSS-National Institute of Bio Energy, Kapurthala, February 25-27, 2016, ISBN 978-93-84935-73-3, pp 42.	Nitai Basak, "Biological Hydrogen Production: Recent Technology for Renewable Bioenergy"
2016	2nd International Conference on Recent Advances on Bioenergy Research (ICRABR 2016), SSS-National Institute of Bio Energy, Kapurthala, February 25-27, 2016, ISBN 978-93-84935-73-3, pp 141.	Raman Rao and Nitai Basak, "Development of Improved Strategies for Fermentative Hydrogen Production"
2013	International Conference on Algal Biorefinery (ICAB 2013), IIT Kharagpur, India, January 10-12, 2013	Photo-Biological hydrogen production by Algae vis-à-vis purple non sulfur bacteria: the present perspective
2012	65th Chemical Engineering Congress, CHEMCON 2012", N.I.T. Jalandhar, India, December 27-30, 2012	Characterization of anti-cancer agents Protein Kinase B/AKT inhibitors using structural based drug design
2012	65th Chemical Engineering Congress, CHEMCON 2012", N.I.T. Jalandhar, India, December 27-30, 2012	Study of various ligands as a potential drug for Erp Protein in <i>Mycobacterium tuberculosis</i>
2012	65th Chemical Engineering Congress, CHEMCON 2012", N.I.T. Jalandhar, India, December 27-30, 2012	Response Surface Methodology: effective tools for Optimization of biohydrogen production using purple non sulfur bacteria <i>Rhodobacter sphaeroides</i>
2012	19th World Hydrogen Energy Congress (WHEC 2012)", Toronto, Canada, June 03-08, 2012	Optimization of photofermentative Parameters for biohydrogen production by purple non sulfur bacteria using Response Surface Methodology
2011	Fuel Cell & Hydrogen Energy (FCHE-2011)", Washington D.C., USA, February 11-18, 2011	Optimization of initial substrate concentration and dry biomass concentration for higher yield of fermentative hydrogen production by Response Surface Methodology
2010	International conference on Biomedical Engineering and Assistive Technologies, BEATs-2010, NIT Jalandhar, December 17-19, 2010	Molecular Docking Study of Anticancer Drugs with Histone Deacetylase (HDAC)

2010	International conference on VIII AICLST, Kolkata, November 12-14, 2010	Removal of Cr (VI) by using pea nut shell as low Cost Bioadsorbent
2007	60th Annual Chemical Engineering Congress, CHEMCON, Kolkata, December 27-30, 2007, pp. 200	Microbial photofermentative hydrogen production by Rhodospseudomonas palustris DSM 123 in annular photobioreactor
2006	59th Annual Chemical Engineering Congress, CHEMCON, Bharuch, December 27-30, 2006, pp.04	Continuous biohydrogen production by immobilized PNS bacteria Rhodobacter sphaeroides O.U.001 in tubular photobioreactor
2006	59th Annual Chemical Engineering Congress, CHEMCON, Bharuch, December 27-30, 2006, pp.227	Liposomes in Drug Delivery
2006	International conference on Biofuel Vision 2015, Bikaner, October 13-15, 2006, pp. 110-111	Anaerobic reactors for biological treatment of organic wastes for production of biogas and biohydrogen
2005	58th Annual Chemical Engineering Congress, CHEMCON, IIT Delhi, December 14-17, 2005	Role of microorganisms in the production of Biogas and Biohydrogen- the Present Perspective
2005	2nd European H2 Energy Conference, Zaragoza, Spain, Nov 22-25, 2005, pp. 350	Photoproduction of H2 using Rhodobacter sphaeroides O.U.001, Rhodobacter capsulatus DSM 152 and Rhodospirillum rubrum NRRL B280

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
Edited the Book of Abstract	Application of Biotechnology in Industry and Society (ABIS-2016)	Excel India Publishers	Joint Editors: Dr. NITAI BASAK and Dr. ASIM KUMAR JANA	978-93-85 777-58-5	April 2016
Edited the Book of Abstract	2nd International Conference, in joint collaboration with University of Florence, Italy on "Application of Biotechnology in Industry and Society (ABIS-2019)"	Excel India Publishers	Joint Editors: Dr. NITAI BASAK and Dr. ASIM KUMAR JANA	ISBN No.: 978-93-88 237-93-2	2019
Chapter in Edited Book	Anaerobic reactors for biological treatment of organic wastes for production of biogas and biohydrogen, Book: Biodiesel Production Technologies, Chapter 19	Pointer Publishers, Jaipur	Editor: S.K.Mehla, Authors: Dr Nitai Basak and Dr Apurba Dey	817132517 7	2007

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Co-Principal Investigator	R & D	Biological Degradation of chrome tanned shaving from tanning industry	MHRD, Govt of India	02-07-2000	15-12-03	8.0 lakh	Completed	Dr S B S Mishra

Principal Investigator	R&D, “Teachers Associateship for Research Excellence (TARE)”	“Bioprospection of Lignocellulose-rich agricultural waste using oleaginous fungi for its potential in Bioenergy sector”, DST SERB Sponsored R&D Project, File number TAR/2022/000652,	DST, SERB	06-10-2022	06-10-2025	15.0 lakh	Ongoing	---
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Events Organized :

Category	Type	Title	Venue	From	To	Designation
MHRD sponsored Global Initiative on Academic Networks (GIAN) course	International	Biotechnology and Process Engineering for Biofuels Production	Host Foreign Faculty from Italy, Prof. (Dr.) Roberto De Philippis, University of Florence and Prof. (Dr.) Debabrata Das, IIT Kharagpur, in Department of Biotechnology, NIT Jalandhar. 32 participants took part in this International Training course	16-05-2016	25-05-2016	Host Faculty and Course Coordinator
Conference	National	Application of Biotechnology for Industry and Society (ABIS 2016)	TEQIP-II Sponsored, Department of Biotechnology, NIT Jalandhar, April 12-14, 2016. Around 90 participants, total 65 Papers were presented	12-04-2016	14-04-2016	Convener

Short Term Course	National	Advances on Industrial Biotechnology	TEQIP-II Sponsored, Department of Biotechnology, NIT Jalandhar, November 30-December 04, 2015. More than 50 participants took part in this Short Term course	30-11-2015	04-12-2015	Course Coordinator
Conference	International	65th Chemical Engineering Congress, CHEMCON 2012	65th CHEMCON, Dec. 2012, NITJ	27-12-2012	30-12-2012	Coordinator of Technical Sessions and Organizer
Conference	National	SCHEMCON 2008: Present and Future Trends in Process Industries	SCHEMCON, Sept. 2008, NIT Jalandhar	26-09-2008	27-09-2008	Coordinator of Technical Sessions and Organizer
Workshop	National	National Technology Day: 2007	NIT Jalandhar	11-05-2007	11-05-2007	Coordinator
Workshop	National	Workshop on 'Water Management'	NIT Jalandhar	19-09-2007	19-09-2007	Coordinator
Students Cultural Events	National	Literary & Debating Society, LADS, UTKANSH	NIT Jalandhar, 2009-2013	2009	2013	Faculty-advvisor
Students Technological Events	National	Society of Biotech Engineer and Researchers (SOBER): TECHNITi Events	NIT Jalandhar	2007	2016	Faculty Coordinator
MOU signed with University of Florence, Italy	International	The Institute signed academic MoU for joint research collaboration and faculty/students exchange in "Biotechnology and Process Engineering for Biofuel Production" with University of Florence, Italy	The M.O.U. was signed on 11th May 2018, by Prof. Luigi Dei, Rector of the University of Florence, Italy and Prof. Lalit Kumar Awasthi, Director, NIT Jalandhar and two coordinators: Prof. (Dr.) Roberto De Philippis (from University of Florence, Italy) and Associate Prof. (Dr.) Nitai Basak (from Dr. B.R.Ambedkar N.I.T.Jalandhar) signed as Witness of the M.O.U.	09-05-18	16-05-18	Faculty Coordinator, responsible for MOU signed

STC	National	“Advances in Enzyme and Bioprocess Engineering”, TEQIP-III Sponsored, More than 50 participants	Department of Biotechnology, NIT Jalandhar	07-02-2019	11-02-2019	Coordinator
Industion Training Programme	National	“Induction Training Programme for 1st year Students”, TEQIP-III Sponsored, All the admitted B.Tech. 1st year students participated.	NIT Jalandhar	02-08-2018	07-08-2018	Coordinator
14th Convocation of the Institute	National	14th Convocation of the Institute	Dr B R Ambedkar NIT Jalandhar	07-04-2019	07-04-2019	Coordinator
B.Tech. Admission	National	2019 B.Tech New Admission, under JOSAA/CSAB 2019	Dr B R Ambedkar NIT Jalandhar	28-06-2019	05-08-2019	Reporting Center In-Charge
M.Tech. Admission	National	2019 M.Tech. New Admission under CCMT 2019	DR B R Ambedkar NIT Jalandhar	07-05-2019	26-07-2019	Reporting Center Deputy In-Charge and Help Center In-Charge
Conference in Joint Collaboration with University of Florence, Italy	International	“Application of Biotechnology for Industry and Society (ABIS 2019)”	Dr B R Ambedkar NIT Jalandhar	14-11-19	16-11-19	Convener
15th Convocation of the Institute	National	15th Convocation of the Institute	Dr B R Ambedkar NIT Jalandhar	25-11-19	25-11-19	Coordinator
B.Tech admission 2020	National	2020 B.Tech New Admission, under JOSAA/CSAB 2020	Dr B R Ambedkar NIT Jalandhar	17-10-20	14-11-20	Reporting Center-in-charge
16th Convocation of the Institute	National	16th Convocation of the Institute	Dr B R Ambedkar NIT Jalandhar	27-12-20	27-12-20	Coordinator

Ministry of Education sponsored Global Initiative on Academic Networks (GIAN) course	International	“Biotechnology and Biovalorisation of Extremophiles”, February 20- March 01, 2023	Department of Biotechnology, NIT Jalandhar. Prof. Rajesh Sani, South Dakota School of Mine and Technology, USA was the Foreign Faculty. Prof. Subir Kundu, IIT BHU and Dr. Nitai Basak were the Indian Speakers for this GIAN Speakers. A total of 61 candidates participated in this GIAN programme.	20-02-2023	01-03-2023	Host Faculty and Course Coordinator
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Professional Affiliations :

Designation	Organization
Member	International Association of Hydrogen Energy” (IAHE), USA, since June 2012
Member	American Chemical Society” (ACS), USA, since January 2011
Member	Asian Forum of Biotechnology” (AFOB), Japan, since January 2013
Life Member	International Association of Engineers” (IAENG), LM 63588 Hong Kong, since July 2007
Life Member	Indian Chemical Engineering Association” (IChE), LM 27333, Kolkata, since June 2005
Life Member	Indian Association for Cultivation of Science” (IACS), Kolkata, since July 2000
Life Member	Indian Society of Technical Education (ISTE), LM 28761, New Delhi, since January 2001
Life Member	Indian Leather Technologists Association” (ILTA), LM 399, since January 1998
Reviewer	Bioprocess and Biosystem Engineering, SpringerLink, February 2016
Reviewer	Energy and Management, Elsevier, May 2015
Reviewer	Fuel, American Chemical Society, April 2015
?Reviewer	Biomass and Bioenergy, Elsevier, ISSN: 0961-9534, since June 2011
?Reviewer	Process Biochemistry, Elsevier, ISSN: 1359-5113, since June 2011
Reviewer	Bioresource Technology, Elsevier, ISSN: 0960-8524, since September 2008
Reviewer	International J of Hydrogen Energy, Elsevier, ISSN:0360-3199, since Sept. 2008
Reviewer	Environmental Science and Technology, American Chemical Society, Sept. 2009
Reviewer	International J. of Environment and Waste Management, Interscience, Oct. 2009
Associate Editor	J.of Indian Leather Technologists Association, ISBN: 0019-5738, 2002-2008
Life Fellow, F-1229755	Institute of Engineers, India (IEI), F-1229755
Member of Editorial Board	American Journal of Chemical and Biochemical Engineering, June 2022 onwards
Member of Editorial Board and Review Editor	Frontiers in Microbiology, June 2022 onwards

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
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Deepika Umrao	Bioprocess Engineering and Environmental Biotechnology	Continuing since January 2023	2023	Nil
Gaganpreet Kaur	Thermophilic anaerobic consortium enrichment for enhanced Biogas /biomethane production	Continuing since September 2021	2021	Dr Sachin Kumar
Shilpa	Studies on isolation and characterization of microbes for efficient plastic degradation	Continuing since August 2018	2018	Dr S S Meena
Satya Ranjan Das	Studies on biohydrogen production from starch as suitable substrate by dark and photo fermentation	PhD Thesis Awarded 24th March 2023	2017	Nil
Raman Rao	Biohydrogen production from cheese whey wastewater by dark and photo fermentation	PhD Thesis Awarded 24th September 2021	2015	Nil

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Rakshita Mehta	Bioprocess Engineering and Environmental Biotechnology	Continuing from August 2022	2022-2024	Nil
Nitish Kumar Prajapati	Study of MICP (Microbial Induced Calcite Precipitation) Technique in the aspect of Geotechnical Engineering,	Continuing from August 2021	2021-23	Prof. Arvind Agnihotri
Devu P	Fermentative biohydrogen production from vegetable wastes	Continuing from August 2021	2021-2023	Nil
Atmaja T Shinde	Fermentative biohydrogen production from fruit wastes	Continuing from August 2021	2021-2023	Nil
Varsha J	Dark fermentative biohydrogen production from rice starch by utilization of pure and co-cultures of Enterobacter aerogenes MTCC 2822 and Clostridium acetobutylicum MTCC 11274	Completed September 2022	2020-2022	Nil
Nistha Thakur	Studies of inhibitors against uptake hydrogenase present in Rhodobacter sphaeroides O.U.001 for enhanced biohydrogen production	Completed September 2021	2019-2021	Nil
Nidhi Arya	Studies on production of Bioplastics composites from various waste materials	Completed September 2021	2019-2021	Nil

Shweta Kalia	Studies on enhancement of production and catalytic properties of extracellular alkaline lipase Using <i>Aspergillus fumigatus</i>	Completed August 2016	2014-2016	Dr N K Srivastava
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Admin. Responsibilities :

Position Held	Organization	From	To
Head, Department of Biotechnology	Dr B R Ambedkar NIT Jalandhar	11-12-2014	31-01-2015
Head, Department of Biotechnology	Dr B R Ambedkar NIT Jalandhar	06-09-2016	19-04-2017
Assistant Proctor, Proctorial Cell of Institute	Dr B R Ambedkar NIT Jalandhar	March 2006	March 2008
Asst. Proctor, Proctorial Cell	NIT Jalandhar	Jan 2011	Aug 2014
Member Secretary, Board of Studies, Deptt. of Biotechnology	Dr B R Ambedkar NIT Jalandhar	July 2008	Till date
Faculty-advisor, Literary & Debating Society, LADS, UTKANSH 2009-2013	Dr B R Ambedkar NIT Jalandhar	July 2009	July 2013
Associate Dean, Faculty Welfare	Dr B R AMbedkar NIT Jalandhar	09-02-2018	23-01-2019
Faculty Coordinator, Music and Dramatic Club	Dr B R Ambedkar NIT Jalandhar	06-09-2016	08-03-2017
Coordinator, "Induction Programme for the 1st year students"	Dr B R Ambedkar NIT Jalandhar	06-09-2017	Till date
Member: Institute Library Committee	Dr B R Ambedkar NIT Jalandhar	06-09-2012	23-01-2019
Assistant Public Information Officer	Dr B R Ambedkar NIT Jalandhar	06-12-2006	30-11-2010
Associate Dean Academic, UG	Dr B R Ambedkar NIT Jalandhar	24-01-2019	05-02-2021
Faculty Coordinator, Institute National Depository	Dr B R Ambedkar NIT Jalandhar	24-01-2019	05-02-2021
Head of the Department, Biotechnology	Dr B R Ambedkar NIT Jalandhar	05-02-2021	Till date

Award and Honours :

Title	Activity	Given by	Year
Sponsored Foreign Visit to Florence, Italy and Ecole Central De Lily, France	For signing the MOU with University of Florence, Italy for joint research Collaboration	Professional Development Allowance, MHRD, NIT Jalandhar	2018
Sponsored Foreign Visit to Toronto, Canada	For presenting research paper in the International Conference	Professional Development Allowance, MHRD, NIT Jalandhar	2012
Sponsored Foreign Visit to Washington DC, USA	For presenting research paper in the International Conference	Professional Development Allowance, MHRD, NIT Jalandhar	2011
Sponsored Foreign Visit to San Francisco, USA	For presenting research paper in the International Conference	Under TEQIP-I World Bank Project	2007

Sponsored Foreign Visit to Zaragoza, Spain	For presenting research paper in the International Conference	Under TEQIP-I World Bank Project	2005
National Scholarship for Ranked 90 in board Class X Examination	Madhyamik Pariksha 1990	MHRD, Govt. of India	1990-1997