

Nandini Sandeep Kotharkar

Present position

Assistant Professor (Department of Biotechnology)

Placement coordinator, Fergusson College (Autonomous) Pune and Department of Biotechnology.

Coordinator, Certificate Course in IPR.

Coordinator Career Facilitation Centre, Fergusson College (Autonomous) Pune.

Convener, Dr. P.C.Shejwalkar Centre for Entrepreneurship and Innovation, Deccan Education Society Pune.

Contact Details (Mention e-mail) – fergusson.edu or despune.org



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Work Experience

1. Teaching: 16 years
2. Research/Industrial: 1 year

Personal Profile

1. Educational Background- MSc Bioinformatics, MBA HR, Post graduate diploma in Patent law and IPR, Certified Entrepreneurship Trainer at Wadhvani Foundation
2. Pursuing PhD in Bioinformatics from MIT ADT University.
3. Professional Background- 1. Worked as Project Trainee at Department of Bioinformatics SPPU, Pune from 2006-2007
4. Worked as a coordinator cum lecturer, G.H. Rasoni Institute of Interdisciplinary Sciences, Pune - 2007-2013
5. Worked as Public relation officer Rasoni Group of Institute
6. Currently working as an Assistant Professor Department of Biotechnology FC, Pune.
7. Also coordinator for career facilitation center FC-(Comprised of Industry Institute Interaction Cell, Training and Placement Cell and Entrepreneurship Development Cell)
8. Visiting Faculty for Entrepreneurship Development courses for vocational biotechnology and vocational photography course
9. Approved trainer for Entrepreneurship at MCED, Pune.
10. Certified Entrepreneurship Development Trainer of Wadhvani Foundation
11. Also Global Jury for startup evaluation at Wadhvani Foundation
12. Member of advisory committee Maharashtra Centre for Entrepreneurship Development
13. Probono Marketing consultant to Navyukti Innovation DRDO incubated Company
14. Probono Consultant to Mettal Innvations

Course(s) Taught (Only Titles)

1. Biological Chemistry I and II
2. Ecology and Environment

3. Introduction to Bioinformatics
4. Quantitative Methods in Biology
5. Bioinformatics and IPR
6. Environmental Biotechnology
7. Bio entrepreneurship

Field of Specialization/Areas of Interests

1. Bioinformatics
2. Chemoinformatics
3. Phytochemistry
4. Computer Aided Drug Discovery
5. Database Designing and Development
6. Phytoinformatics
7. Bio-entrepreneurship

Education

1. Ph.D. – (Bioinformatics Pursuing): From October 2018 to till, date.
Title of the Thesis: Computational analysis of phytochemicals extracted from the flowers of *Nyctanthes arbor tristis* L for the design and development of lead compounds for rheumatoid arthritis.
Name of University / Institution: School of Bioengineering MIT ADT University,
Year of Award: Yet to submit the thesis.
2. Master of Science – Bioinformatics: 2006, G.H. Raison National College, Raipur, Pandit Ravishankar Shukla University, Raipur.
3. Master of Business Administration (HR)-Synergy Institute of Management, Sadashivpeth Pune.
4. Postgraduate Diploma: Patent Law from NALSAR Institute Hyderabad.
5. Bachelor of Science- Biotechnology: 2003, LAD College, Nagpur University Nagpur.

Fellowship/Awards/ Certifications/Achievements/Recognitions

1. Postgraduate Diploma in Patent Law.
2. Selected as Member of Advisory Committee MCED Pune
3. Approved faculty and Global Jury for entrepreneurship at Wadhvani Foundation
4. Mrs. Nandini Kotharkar was Invited as guest faculty and conducted the hands on workshop on practical aspects of Bioinformatics for Life sciences students at K.J. Somaiya College of science and commerce, Vidyavihar Mumbai on 12th and 13th June 2017
5. Nandini Kotharkar was invited as guest speaker at Somaiya College Mumbai, for conducting workshop on Bioinformatics tools and techniques for Life Sciences from 14th July – 17th July 2018.
6. Mrs.Nandini.Kotharkar coordinated 2nd batch of add on Certificate Course in Intellectual Property Rights completed from 1st January 2019 to 30th March 2019
7. Invited as a Resource Person at Somaiya College Mumbai, for conducting workshop on Bioinformatics tools and techniques for Life Sciences under CPE scheme from 18th July to 20th July 2019.

8. Deliver the guest lecture on “Career Avenues and Opportunities in Intellectual Property rights (IPR) for students at faculty development workshop on Intellectual Property rights (IPR) conducted on 4th-5th Feb 2020 in Fergusson College (Autonomous), Pune; under DBT STAR College scheme.

Member of College Committees/ Professional Bodies and Others

College Level	Professional Bodies	Others
Coordinator Career Facilitation Centre	Advisor to MCED Pune	Global Jury at Wadhvani Foundation for Entrepreneurship
Member Research Coordination Committee		
Member NAAC Criteria 5		
Placement Cell Coordinator		
Convener Incubation Centre		
OBE Coordinator for UG and PG		
SY Admission Committee		

Employment History

Example:

1) Organization : Bioinformatics Centre SPPU Pune.

Role : Trainee

Duration : 1 year

Responsibilities	<ul style="list-style-type: none"> Involved in database designing and development project for non-coding RNA.
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2) Organization : G.H. Raisoni Institute of Interdisciplinary Science, Pune

Role : Lecturer cum Coordinator also public relation officer for 1year

Duration : 7 years

Responsibilities	<ul style="list-style-type: none"> Coordinated the B.Sc. and M.Sc. programs in Biotechnology and Bioinformatics involved in admission process, examination coordination, handled administrative activities, accounts, reporting authority for 10 teaching faculties and 4 non-teaching staff. Subjects taught : Bioinformatics, Statistics, Bio entrepreneurship, Database management system and IPR, Perl, Java, Genomics and Proteomics, Biochemistry, Environmental Biotechnology, Quantitative Methods in Biology Involved in the public relation related activities coordinated with print media, electronic media and local news agency
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Research Projects

Title of the Project	Name of Funding Agency	Amount (Rs)	Duration (Year) (From To)	Type (Minor/Major)	Outcome
Comparative estimation of phytochemicals by ethanolic extraction of selected fruit peels.	Fergusson College(CE-MAST Program)	5000	2019-2020	Minor	Poster presentation in the international conference
GCMS analysis of Biologically active phytoconstituents from ethanolic extracts of bark of <i>Nyctanthes arbor tristis</i> L	Fergusson College(CE-STAR Program)	25000	2019-2020	Minor	Poster presentation in the international conference
Isolation and Extraction of Phytochemicals from <i>Nyctanthes arbor-tristis</i> L and its nanoparticle synthesis for potential antimicrobial properties	Fergusson College(DBT STAR College Scheme)Pune	10000	2020-2021	Minor	Conference Poster Presentation
Phytochemical extraction, Isolation, Characterization and computational analysis of <i>Calotropis procera</i> leaves	Fergusson College (Autonomous), Pune Seed Money Funding	100000	2022	Minor	Ongoing Project

Research Publications in National and International Journals

1. Synthesis of 5-benzylidene-3-(3-fluoro-4-yl-morpholin-4-yl-phenylimino)-thiazolidin-4-one derivatives catalyzed by [BmIm] OH and their anti-microbial activity, SG Patil, RR Bagul, MS Swami, N Kotharkar, K Darade, Chinese Chemical Letters 22 (8), 883-886
2. Synthesis of 2-imino 4-thiazolidinone derivatives and its antibacterial activity, SG Patil, RR Bagul, MS Swami, SN Hallale, VM Kamble, NS Kotharkar, Journal of Chemical and Pharmaceutical Research, 69-76

3. Synthesis of Novel 5-Benzilidine (3-Alkyl-2-(4-(1H-Pyrrol-1-yl-Phenylimino)-Thiazolidin-4-Ones) and its Antimicrobial Activity, SG Patil, DS Kadam, RR Bagul, DK Pagar, NS Kotharkar, Journal of Chemical and Pharmaceutical Research 9 (9), 86-91
4. Design, Synthesis of New Iso-oxazoline Containing Iminothiazolidinone and its Antibacterial Activity, SG Patil, DS Kadam, RR Bagul, NS Bagul, NS Kotharkar
5. 中国化学快报 2011, 22 (08) 883-886 DOI: ISSN: 1001-8417 CN: 11-2710/O6, SG Patil, RR Bagul, MS Swami, N Kotharkar, K Darade

Participation in Conferences/Seminars/Symposia/Workshop:

1. Mrs. Nandini Kotharkar Attended the Pedagogy Workshop at IIT Gandhinagar, on 10th-13th December 2017.
2. Mrs. Nandini Kotharkar completed a Faculty Development program for Entrepreneurship Development Program at Wadhawani Foundation Bangalore from 29th November- 5th December 2018.
3. Mrs. Nandini Kotharkar attended a Workshop on , “ Extraction and Isolation of Phytoconstituents from medicinal plants/ herbs” at ICT Mumbai from 13th July 2019 to 14th July 2019
4. Mrs. Nandini Kotharkar attended the workshop at IISER Pune on Machine learning from 24th July 2019 to 25th July 2019
5. Mrs. Nandini Kotharkar presented a Poster in International Conference at MIT-ADT University title “Phytochemical extraction of fruit peels and its comparative analysis “on 30th January 2020.

Events Organized/Coordinated:

Sr. No	Name of the Event	Name of organizing Institute/ College/ University	Nature of contribution	Dates
1	Campus to Corporate Program	Career Facilitation Center, Fergusson College(Autonomous),Pune	Coordinator	Every Year
2	Innovision	Career Facilitation Center, Fergusson College(Autonomous),Pune	Coordinator	2017-2018
3	Sectorial Career Summit	Career Facilitation Center, Fergusson College(Autonomous),Pune	Coordinator	Every Year
4	Faculty Development Program in IPR	Fergusson College(Autonomous),Pune	Coordinator	2019
5	HR Meet	Career Facilitation Center, Fergusson College(Autonomous),Pune	Coordinator	2019
6	National Entrepreneurship Conclave	Career Facilitation Center, Fergusson College(Autonomous),Pune	Coordinator	13 th September 2019
7	Launch of the Startup Club	Career Facilitation Center, Fergusson College(Autonomous),Pune	Coordinator	2019
8	Webinar on opportunities in Biotechnology	Department of Biotechnology, Fergusson College(Autonomous),Pune	Coordinator	2019

9	Workshop on Interview Skills, CV Writing etc.	Fergusson College(Autonomous),Pune	Coordinator	2021
10	Research Grant Writing Workshop	Fergusson College(Autonomous),Pune	Coordinator	2022
11	IPR, Awareness Workshop	Indian Patent Office and Fergusson College(Autonomous),Pun	Coordinator	2022

Additional skills/Activities

Soft skills

C, C++, Java, Oracle, MySQL, DBMS, HTML, Perl, Python

Training Institute: Orange City Hospital and Research Institute Nagpur

Role: Experimental techniques based on microbiology, biochemistry and molecular biology like various tests related to blood samples like Hepatitis-B, Streaking, Bacterial colonies analysis etc.

Duration: 1st May 01 to 1st June 01

Institute: Central Institute of Cotton Research (CICR) Nagpur

Role: Tissue Culture based on cotton, Callus Induction, Root and shoot tip culture.

Duration: 1st May 02 to 1st June 02

Brief: Plant tissue culture and techniques in molecular biology.

Institute: Advanced Computer Systems (ACS- informatics) Lucknow

Duration: 9th Sept 05 to 9th Oct 05

Brief: Bioinformatics and Biology Tools and technique

Course Content Developed (e-content)

1. Developed the Lab manual of Computers for B. Sc. first year Biotechnology of YCMOU Nasik
2. Act as a Editor for YCMOU B.Sc. Lab Manuals

Consultancy Services

1. Probono Consultant to Mettal Innovation
2. Probono Consultant to Navyukti Innovations, DIAT Incubated Company

