

Information for profiling

Basic Info.	<p>Name : Swarupa S.Chowdhury</p> <p>Designation: Asst. Professor</p> <p>Department: Botany</p> <p>E-mail:swarupa.chowdhury@despune.org</p> <p>Work experience</p> <p>Teaching: 17 years.</p> <p>Research: On-going.</p>
Personal Profile	<p>Plants science is the basis for our survival, yet its prominence is not acknowledged. It has been my constant endeavor to ignite young minds with the fascinating aspects of the existence of plants. Facilitating knowledge through research and regular curriculum, in this journey we continue to learn and create cognizance of our co-existence with plants.</p>
Course(s) Taught	<p>Plant Diversity, Morphology and Anatomy of Angiosperms, Industrial Botany, Plant Resources and Management, Plant Taxonomy and Ecology, Cell biology, Molecular Biology, Plant Biotechnology, Plant Genetic engineering, Economic Botany, Biodiversity, Genetics, Techniques in Biology, Biophysics, Biochemistry.</p>
Field of specialization	<p>Plant Biotechnology, Nanotechnology</p>
Education Qualifications	<p>BSc. Botany</p> <p>BSc. Microbiology</p> <p>M.Sc. Botany (Plant biotechnology), SET, NET(twice)</p>

Awards, Honors	Gold medal in state level research competition “Avishkar” at Nagpur in 2015.
Employment History	Lecturer in Botany at Nowrosjee Wadia college on temporary basis from 2002-2005. Lecturer in biotechnology at Modern college, Shivajinagar on temporary basis in 2003-04
Research	UGC minor research project on ‘Nanoprimer for increasing seed germination efficiency in soybean’ from 2014-2016 BCUD minor research project on “Use of nano sized ZnO materials on increasing germination in groundnut.” from 2015-2018. Guided many undergraduate and postgraduate students for various research projects.
Publications	<ul style="list-style-type: none"> • A brief report of vegetal diversity of Dongarwadi(2020), Ecology, Environment and Conservation, Vol 26, Issue 2, 530-535 • Thakur V, Jite P, Chowdhury S, Airborne pollen survey of Ganeshkhind crop field area, Pune, International Journal of Research and Analytical reviews (2019) Vol 6, issue 1, 10-18 • Swarupa Chowdhury, Meenakshi Mahajan, Rajendra Patil; Fungi of sacred grooves: International Journal of researches in bioscience and agriculture technology, (2017), Issue 1 : 18-20 • Ayesha Pathan, Anuja Kamble, Swarupa Chowdhury and Shankar Laware, Sequential extraction and quantification of <i>Tinospora cordifolia</i>, Int.J.Curr.Microbiol.App.Sci (2015) 4(3): 638-644

	<ul style="list-style-type: none"> • S.Chowdhury,N.Joshi,A.Jakati and Y.lele; Bird-plant association of Fergusson college campus: in Proceedings of international conference of Biodiversity and its conservation • Dushing Y.A.,Chowdhury S.S and Deore G.B. Survey of medicinal plants used by local people of Newasa tehsil in Proceedings of international conference on Biodiversity and its conservation.
Participations in Conferences/Seminars/Symposia/Workshop	<p>Papers Presented:</p> <ul style="list-style-type: none"> • “Preliminary approach to response of sunflower seeds to phytosynthesized silver nanoparticles” in international conference entitled, ‘Recent trends in science and technology’ on 29th June 2022. • “Effect of nanoparticles on germination parameters of sunflower seeds “ in international conference entitled, “New frontiers in environmental and allied sciences” organised by RMACS ICNFEAS-19 on • “Phytochemical studies in pomegranate mesocarp” in ‘Recent trends in plant Science’ organized by botany department, Agrawal college, Navapur on 15th May 2020. • “Effect of biofertilisers on germination of common commercial cash crops” in national conference entitled “Biodiversity conservation, organized by Kelkar college of Arts, commerce and Science on 19th May 2020

	<ul style="list-style-type: none"> • “GIS and its implications in ex-situ plant conservation” in national conference on “Applications of geo-informatics in geographical and botanical studies” on 30-31st January 2017 • “Use of nanosized ZnO particles on increasing germination efficiency in groundnut” in regional INNOVATIONS-16 organised by BCUD in Sangamner on 7th October 2016 • Diurnal effect of temperature on phytoplanktons of small pond in national conference entitled, Climate change :Assessment,impact and its relevance to India, in SP college on 4-5th March 2016. • “Nanopriming: A new method of increasing germination efficiency” in International conference on ‘Ancient science & technology:Retrospection and Aspiration’ organized by Deccan college on 9-11 January 2016. • “Efficacy of ZnO NPs on germination of groundnut seeds” in international conference on Innovative trends in chemical,physical and Bioscience.in Annasahab magar college on 9th and 10th February 20116 • “Phytochemical analysis of Meyna laxiflora , in Innovation 2015 in Fergusson college on 17th June 2015. • “Use of nanosized iron oxide on productability of groundnut “in regional research conference Innovations 2015 in Bhausahab Santji Thorat
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	<p>college,Sangamner on 20-21st 2015</p> <ul style="list-style-type: none"> • “In vitro antioxidant potential of Meyna laxiflora,” in international conference on Biodiversity,Bioresources and Biotechnology in Mysore, Karnatake during January 30-31 2014 • “Potential of biopesticides in market trends” in International conference in Business opportunities in life sciences organized by Modern college on 28th-30 January 2012 • “Bird and plant interactions in Fergusson campus” in international conference on Biodiversity and its Conservation held in Modern college on 28th-30th January 2011. • Guest lecture delivered on”Innovative research” in webinar entitled”Process of innovation development” organized by Institution Innovation Council,Sonai on 6th January 2021 <p>Faculty development programmes</p> <ul style="list-style-type: none"> • National online FDP on “Innovative teaching and Research in Science exploring new horizons” organized by Science forum of Government first grade college,Karnataka on 10-15th June 2021. • Online FDP on “Research Article Writing and Online Academic Presentation” organized by National Academy of Science, Bhopal on 17-23rd August 2020 • One week pedagogical training on Tools for online Teaching, Learning and
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	<p>Evaluation organized by school of mathematical science, Swami Ramanand Teerth Marathwada University. on 1-6th July 2020.</p> <ul style="list-style-type: none"> • National level FDP on “G suite and allied tools in education, training and E content development” organized by PG department of Computer science and engineering on 7th-17^h July 2020. • Online national FDP on “E contents and ICT tools for innovative and effective teaching” organized by KS Jain institute of engineering and technology, Ghaziabad from 15-21st July 2020 • Short-term course on “Mathematics for Biological Sciences” conducted by Shardabai pawar college and UGC HRDC from 15-20th June 2020. • One week FDP on “Research Methodology in Science and Technology” conducted by SPPU from 14th -20th January 2019 • One week FDP on “Innovations and Extensions” conducted by UGC-HRDC from 22-28 July 2019 • One week FDP in “Research Methodology” conducted by HRDC SPPU from 14-20 January 2019 • Refresher course in Botany organized by Bangalore University, Bangalore from 27th June 2016 -18th July 2016 with A grade • Refresher course on “Mathematical
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BioSciences “organized by ASC and department of Microbiology from 2-22nd February 2011 with O grade.

- Orientation course organized by ASC, Jadhavpur University , Kolkata from 7-25th December 2009 with O grade

Seminars and workshops participated

- Online workshop on “Nutrition for enhancing overall health and well being of staff” organized by Fergusson college on 8th August 2022
- Online workshop on “Statistical Analysis using R” conducted by Statistics department, Fergusson College on 5th and 6th May 2021.
- “Series of webinar on Science” organized by Research Foundation of India on 5-8th June 2021
- University distinguished lecture on ‘Higher education in India post covid-19’ organized by SRM university,AP on 4th June 2021
- Online lecture series on “Advances in plant Science” organized by Modern college on 1-3rd September 2021
- Online international workshop on “How to improve your API score “ organized by Research foundation of India 19th December 2020.
- University distinguished lecture on

	<p>‘Philosophy of Ultimate Success in Scientific Life’ organized by SRM university, AP on 28th November 2020</p> <ul style="list-style-type: none"> • Online national Webinar on “Covid 19, role of biotechnologist” organized by Christ church college, Kanpur on 9th July 2020 • National workshop on “Research Panorama of life science “organized by Rajaram college, Kolhapur from 15-18th July 2020. • National workshop on “Research writing and legal aspects of academic research organized by Faculty development centre, UGC-HRDC, SPPU on 12th and 13th June 2020. • National workshop on Introduction to statistical data analysis with R’ organized by research foundation of India from 25-30th May 2020 • Webinar on “Inferential statistics with MS excel as a tool” organized by research foundation of India on 22nd May 2020 • National workshop on “SPSS introductory module” organized by research foundation of India from 7-19th May 2020 • Webinar on “CAS promotion issues & E content development” organized by white code on 1st May 2020 • Online Seminar on “Creation of MOOCs” organized by Kirti M. Doongursee College of Arts, Science and Commerce, Dadar,
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	<p>Mumbai on 27th April 2020.</p> <ul style="list-style-type: none"> • National workshop on “Plant Functional Genomics” at botany department SPPU on 3rd -5th January 2019 • National TLC workshop on “Plant Molecular Biology “at botany department SPPU on 1st March 2018 • National TLC workshop on Plant Physiology and Biochemistry at Botany department SPPU on 3rd and 4th March 2018 • National workshop on “Teaching and learning skills on plant ecology” at Botany department, SPPU on 20th and 21st April 2018 • Hands on training workshop on Electrophoretic techniques organized by Botany department, Fergusson college on 12-13 January 2018 • Three day training workshop on “Use of information and communication technology for effective teaching” organized by DES on 17th -20th June 2017 • National workshop on “Recent Advances in cell biology and Molecular biology” in SP college on 5th and 6th February 2016 • Workshop on “Genes to Genomes: Bioinformatics Approach “organized by Bioinformatics Centre, University of Pune on 12-15th December 2011. • Workshop on “Proteins to Proteome:
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	<p>Bioinformatics Approach” organized by Bioinformatics centre, University of Pune on 16-19th December 2011.</p> <ul style="list-style-type: none"> • National workshop on “Recent trends in Botany” held in Yasavantrao Chavan Institute of Science, Satara on 18th and 19th January 2013. • National conference on “Role of spirituality in education” organized by Modern College and Brahma Kumaris Ishwariya Vishwa Vidyalaya in Modern College on 27th and 28th April 2012 • State level seminar on “Research orientation and methodology” organized by D.Y. Patil College on 9th and 10th February 2012 • National seminar on “Plant Biodiversity for Sustainable development” organized by Department of Botany, University of Pune on 10th to 12th March 2011 • National workshop on “Computer assisted language learning” organized by Department of English Fergusson College from 4th to 6th March 2010 • National conference on “Emerging trends in Botany, Biotechnology and environmental science and their applications in rural development “ organized by Jijamata College of Science and Arts, Ahmednagar on 23rd and 24th February 2010 • Workshop on “Advances in genetics and
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	<p>molecular biology” organized by HPT arts and RYT science college,Nashik on 30 and 31st January 2009</p> <ul style="list-style-type: none"> • State level seminar on “Biodiversity the web of life” organized by Kirti Dinurse college,Mumbai on 21st and 22nd March 2009 • National workshop on “WHO-GMP for Ayurveda,siddha and Unani medicines” organized by Department of Ayush,GOI on 21st and 22nd November 2008 • Workshop on “Biodiversity: conservation and Management” organized by Maharashtra academy of science at NCL Pune on October 23 2008 • Joint workshop on “Ecological forecasting:An Indo US Initiative” organized by NCL and University of Kansas during 27-29 August 2007 • National seminar on “Current trends in plant resource and utilization” organized by department of botany University of Pune on 26th-27th February 2007 • One day seminar on “Biophysics” organized by department of biotechnology, Fergusson college on 31st October 2006
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<p>Event Organized/Conference/ Seminar/ Workshops coordinated</p>	<ul style="list-style-type: none"> ▪ One day workshop on “Research Publications and its ethics” on 29th April 2022 ▪ National webinar on “Trends in algal research” on 10th March 2022 ▪ One day seminar on “Advances in Plant Biotechnology” on 22nd August 2016 ▪ One-day seminar on “Concepts in Biotechnology” on 13th February 2013.
<p>Additional Activities</p>	<p>Completed certificate course on Field botany from Agharkar Research Institute, Pune. Successfully completed three month certificate course on ornithology of ELA foundation from Garware college,Pune. Completed extensive six month course work on Biotechnology from National Centre for cell science in 2018 with O grade.</p> <p>College Related Activities F.Y.B.Sc. incharge from 2007-2009 Member of Pune inter collegiate consortium from 2007-2009 Co-ordinator of Vocational Biotechnology course in 2010-11 Co-ordinator for Botany Association in rotation with other staff members Co-ordinator for the annual botany department fest –FLORA in rotation with staff members. Member of Academic Co-ordination committee Member of FY admission committee Member of Feedback committee Member of board of studies of Syllabus</p>

	framing committee of college. T.Y.B.Sc. In-charge from 2017 to date.
Course content developed(e -content)	E content on Microsoft teams developed for- First year students- entire course of Plant diversity and Morphology and Anatomy Third Year students- entire course of Cell and Molecular Biology, Plant Biotechnology. MSc II- Topics of plant biotechnology