

## Faculty Profile



Name: Dr. Kamakshi

Designation: Assistant Professor

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- ✧ **Swayam Coordinator** (UGC)
- ✧ **S.P.O.C.** (Single Point Of Contact) of NPTEL-Local Chapter (ID-2266), SRM Institute of Science and Technology, Modinagar, Ghaziabad, UP.
- ✧ **Faculty Coordinator-Admissions**, SRM Institute of Science and Technology, Modinagar, Ghaziabad, UP.
- ✧ **Reviewer** of SCOPUS Indexed International Journal "Physiology and Molecular Biology of Plants" Impact Factor 1.51 ISSN 0971-5894.

### Educational Qualification:

S.No.	Degree	Institute/Organization	Specialization	Year
1.	Ph.D.	M.J.P. Rohilkhand University, Bareilly, U.P.	Air Biomonitoring and stress physiology	2009
2.	M.Sc.	Dr. B.R. Ambedkar University, Agra, U.P.	Botany	1997

### Details of Publications:

- Sharma, Deepa & Dhanker, Raunak & Kumar, Ram & Kamble, Shashank & **Kamakshi**, & Goyal, Shubham. (2023). Biosynthesis and characterization of silver nanoparticles generated from peels of *Solanum tuberosum* (potato) and their antibacterial and wastewater treatment potential OPEN ACCESS EDITED BY. *Frontiers in Nanotechnology*. 5. 10.3389/fnano.2023.1213160. [https://www.researchgate.net/publication/373118912\\_Biosynthesis\\_and\\_characterization\\_of\\_silver\\_nanoparticles\\_generated\\_from\\_peels\\_of\\_Solanum\\_tuberosum\\_potato\\_and\\_their\\_antibacterial\\_and\\_wastewater\\_treatment\\_potential\\_OPEN\\_ACCESS\\_EDITED\\_BY](https://www.researchgate.net/publication/373118912_Biosynthesis_and_characterization_of_silver_nanoparticles_generated_from_peels_of_Solanum_tuberosum_potato_and_their_antibacterial_and_wastewater_treatment_potential_OPEN_ACCESS_EDITED_BY)
- ✧ **Kamakshi** Saxena, Touseef hussain, Raunak Dhanker, Parool Jain and Shubham Goyal (2022). Phytoremediation: A Sustainable Solution to Combat Pollution in the book titled 'Biotechnological innovations for environmental bioremediation'. by Springer. page 237-257, ISBN 978-981-16-9000-6.

[https://drive.google.com/file/d/13ZrYrXty8k9YwmSGdxdtNjc1yCrAz\\_Qe/view?usp=share\\_link](https://drive.google.com/file/d/13ZrYrXty8k9YwmSGdxdtNjc1yCrAz_Qe/view?usp=share_link)

- ✧ Arun Kumar Maurya, Dwaipayan Sinha, **Kamakshi** and Suchetana Mukherjee (2022). Plant Response to heavy metals (at cellular level) in the book titled 'Heavy metals in plants physiological to molecular approach'. By CRC Press Taylor and Francis. page 125-148, ISBN 978-0-367-62739-3  
[https://books.google.co.in/books?hl=en&lr=lang\\_en&id=hA1yEAAAQBAJ&oi=fnd&pg=PA1941&ots=sZ3iHAFWcT&sig=ngVxejwPPaOaUuti3wXCapW\\_v9o&redir\\_esc=y#v=onepage&q&f=false](https://books.google.co.in/books?hl=en&lr=lang_en&id=hA1yEAAAQBAJ&oi=fnd&pg=PA1941&ots=sZ3iHAFWcT&sig=ngVxejwPPaOaUuti3wXCapW_v9o&redir_esc=y#v=onepage&q&f=false)
- ✧ Parool Jain, Raunak Dhanker, Aarushi Bhardwaj, Geetanshi Singhla, **Kamakshi** Saxena and Touseef Hussain (2022). Aerobic and anaerobic ammonia-oxidizing bacteria: A resilient challenger or innate collaborator in the book titled "Development in wastewater treatment research and process. page 195-219, ISBN 978-0-323-91901-2  
[elsevier chapter kamakshi.pdf](#)
- ✧ Vineet Kumar Maurya, Anmol Singh, Nishtha Srivastava, **Kamakshi** Saxena and Abhiruchi Agnihotri (2021). Comparing Anti-bacterial Activity of 'Anti-bacterial Proteins' from *Parthenium hysterophorus* with Three Antibiotics. *Invertis Journal of Renewable Energy*, vol 11(4), 211-217.
- ✧ Nishtha Srivastava, Richa Saxena, Vineet K. Maurya and **Kamakshi** Saxena (2020). Biological impact of lichens to control environment pollution. *J. Environ & Engg.* 65(2), 915-935, ISSN: - 0367 - 827X, ONLINE ISSN 2582 – 8460
- ✧ **Kamakshi** Saxena and Uma Yadav (2018). "In vitro assessment of antimicrobial activity of aqueous and alcoholic extracts of moss *Atrichum Undulatum* (Hedw.) P. Beauv." *Physiology and Molecular Biology of Plants*, 24(6), 1203-1208. DOI 10.1007/s12298-018-0589-1. ISSN 09715894. **UGC Sr. No.** 30885. Impact factor **1.151**.
- ✧ Sarika Goel, Sarika Maheshwari and **Kamakshi** Saxena (2018). Mineral content of *Stevia rebaudiana bertonii* under the effect of distillery spent wash. *Progressive agriculture* 18(2), 229-235, ISSN 0972-6152.
- ✧ Sarika Goel, Sarika Maheshwari and **Kamakshi** Saxena (2017). "Impact of spent wash irrigation on different soil characteristics". *Journal of Plant Development Sciences*, **9(6)**: 583-587. ISSN 0974 6382.
- ✧ Saxena D.K., **Kamakshi**, Saxena A. (2002). "Reduction in chlorophyll and protein in *Marchantia polymorpha* L. as indicator of air pollution: a study in Nanital hills". In: *Role of plant tissue culture in bio diversity conservation and economic development*, Nandi, S.K., Palni, L.M.S. and Kumar, A. eds., Gyanodaya Prakshan, Nanital, pp. 623-636. **ISBN** 81 - 85097 -55 -0.
- ✧ Dinesh K. Saxena, B.K. Sharma, H.S. Srivastava, Anuj Saxena, Niharika Shankar, **Kamakshi** and Adarsh Goswami (2001). "Need of bryophyte bank for environment monitoring in India". *Current Science* **81(11)** : 101-102. **ISSN** 00113891.
- ✧ D.K. Saxena, Anuj Saxena, Parool Gupta and **Kamakshi** (2001). "Effect of short term fumigation of SO<sub>2</sub> on seedling growth of *Cicer arietinum* L. *The Journal of Indian Botanical Society* **80** : 59-62. **ISSN** 00194468.
- ✧ Niharika Shanker, **Kamakshi**, Anuj Saxena & D.K. Saxena (2000). "Variation in some metabolites and nitrate reductase activity in *Plagiochasma appendiculatum* L. in polluted urban environment" *Physiol. Mol. Biol. Plants* **6**: 89-90. **ISSN** 09715894.

### Details of Patents:

- ✧ Scanning and identification of public with ambulance device using Aadhar card data bank, published on 29.10.2021, application number 202141046856A (National).
- ✧ Transforming health care management using artificial intelligence, published on 26.11.2021, application number 202111050496A (National).
- ✧ Computer Vision System Based Agricultural Robotic Foliar Sprayer, granted on 18.6.2023, design number 6288658 (International).
- ✧ Characterization of some essential flavonoids and other phytochemical constituents of ethanolic extract of *Cordia myxa* leaves using sophisticated analytical techniques, published on 21.7.2023, application number 202311041325A (National).
- ✧ Characterization of some essential phytochemical constituents of methanolic extract of *Glycine max* seeds using sophisticated analytical techniques, published on 21.7.2023, application number 202311042511A (National).

### Awards and Achievements:

- ✧ **Guest of Honour** at Festival of Gifts organized by Hindustan Times (Delhi) on 9<sup>th</sup> November'2023.
- ✧ **Invited Speaker** in "International Conference cum Buyers Sellers Meet for Medicinal Plants Used in Lifestyle Products" February 8-10, 2021 at Jadavpur University, Kolkata,
- ✧ Received **Excellence award** by SRM IST, Modinagar Campus on 25<sup>th</sup> March'2021
- ✧ National **Pre-screening Jury member and Convenor** of Student Engineering Model Competition and Expo' at India International Science Festival (IISF) on 23-24 December'2020.
- ✧ **Organizing member** of 'Student Engineering Model Competition and Expo' at India International Science Festival (IISF), 6&7 November'2019, IICB Kolkata.

### Workshops/Seminars/FDPs:

- ✧ Online FDP on Blended Learning and Flipped Classroom Conducted by Education and Educational Management Department, NITTTR from 16/10/2023 to 20/10/2023 (One Week).
- ✧ Online FDP on Effective Teaching Learning using Social Media Conducted by Education and Educational Management Department, NITTTR from 05/06/2023 to 09/06/2023 (One Week).
- ✧ Organized NPTEL e-awareness workshop in association with IIT, Mumbai on 19<sup>th</sup> Jan'2023. <https://youtu.be/NHYBqhjd0bs>
- ✧ Two-Week **Refresher Course** On "Managing Online Classes & Co-creating MOOCs 21.0" from 07 - 21 December, 2022.
- ✧ Workshop under STUTI program of DST, New Delhi on Biotechnological tools for human welfare organized by Bareilly College, Bareilly.
- ✧ FDP on "Digital tools for teaching and learning" conducted by Media engineering department, NITTTR, Chandigarh.
- ✧ FDP on the theme "Inculcating Universal Human Values in Technical Education" organized

by AICTE.

- ✧ FDP on “Design, develop and deliver online/blended learning courses” organized by National Institute of Educational Planning and Administration (NIEPA).
- ✧ Online NPTEL course “Plant Cell Biology”.
- ✧ Online NPTEL course on “Plant Developmental Biology”.
- ✧ Online NPTEL course “Emotional Intelligence”.
- ✧ National seminar cum workshop on e-content, Mooc’s (SWAYAM) and Arpit” conducted by AICTE and GADTLC of MHRD at SGTB Khalsa College, Univ. of Delhi.
- ✧ Online NPTEL FDP on “Cell Culture Technology”.
- ✧ Research Methodology Short Term Course’ 2014 organized by Academic Staff College, Pt. Ravi Shankar Shukla University, Raipur.

### **Work Experience:**

- ✧ Lecturer in S.D.P.G. College, Gautam Budh Nagar, UP.
- ✧ Lecturer in PGDEM, Deptt of Botany, Bareilly College, Bareilly, UP.
- ✧ Lecturer in Khandelwal College of Science Management and Technology (KCMT), Bareilly, UP.
- ✧ Worked as **Junior Research Fellow (JRF)** UGC sanctioned project titled "*Sphagnum* as biological indicator of environmental stress and niche structure along pollution gradients" in the Deptt. of Botany, Bareilly College, Bareilly.

### **Memberships:**

- ✧ Life-time member of The Indian Botanical Society (Indian Science Congress).
- ✧ Member of VIBHA, VIJNANA BHARTI.
- ✧ Life-time member of The Palaeobotanical Society (An affiliated Society of International Federation of Palynological Societies, IFPS and International Organization of Palaeobotany, IOP).