

# **CURRICULUM VITAE**



## **Dr. Shaiphali Saxena**

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### **Personal Details**

**Date of Birth:** 01<sup>st</sup> of January, 1993

**Qualification:** M.Sc. (Botany), U-SET, Ph.D., NET

**Specialization:** Plant Pathology (M.Sc.), Plant Physiology (Ph.D.)

**Languages:** Hindi and English

**Skills and Expertise:** Invasive alien weed plants study, antioxidants and bioactive phytochemical analysis, FT-IR, Atomic Absorption Spectroscopy, GC-MS, anti-inflammatory studies, ethnobotany, plant physiology.

### **Educational Qualifications**

<b>Examination</b>	<b>Board/University</b>	<b>Year</b>
Ph.D.	G.B. Pant Univ. of Agri. & Tech., Pantnagar	2019
M.Sc.	Kumaun University, Nainital	2014
B.Sc.	Kumaun University, Nainital	2012
Intermediate	Uttarakhand Board	2009
Highschool	Uttarakhand Board	2007

### **Other Qualifications:**

1. National Eligibility Test in Plant Physiology conducted by ICAR, New Delhi in the year of 2019.
2. Uttarakhand State Eligibility Test in Life Sciences conducted by UGC-HRDC Kumaun University, Nainital in the year 2015.

## Publications

### National/ International Publication(s):

#### i) Book(s):

1. Dhaka, T.S., **Saxena, S.** and Kumar, B. 2025. Botany: Plant Physiology and Biochemistry. *Pragati Prakashan, Meerut.*

#### ii) Book Chapter(s):

1. **Saxena, S.** and Prasad, J. 2025. Current status and cataloguing of threatened plants of Uttarakhand. In book: Climate Change Impact on Himalayan Biodiversity (Eds. Arya, D., Chandra, N., Kumar, R., Upadhyay, M.L. and Mishra, A.P.). Environmental Science and Engineering Series. Springer Cham, Springer Nature, Switzerland. **(Web of Science, UGC and SCOPUS indexed).**
2. **Saxena, S.** 2020. Medicinal biome: from tradition to modernized pharmacy. In book: Natural products and their utilization pattern (Eds. Tewari, G., Tewari, A., Tewari, L.M. and Pande, C.). Nova Science Publishers Inc., New York, USA. **(SCOPUS indexed).**

#### iii) Research Articles:

1. Saxena, S. 2023. Comparative antioxidant profiling and mineral estimation of *Portulaca oleracea* L. and *Portulaca quadrifida* L. *The Pharma Innovation Journal*. 12(06): 6195-6205. **(NAAS Rating: 5.23).**
2. **Saxena, S.** and Rao, P.B., 2022. Traditional Utilization and Pharmacology of *Cinnamomum glanduliferum* (Wall.) Meisn.: A Review on Current Research Status. *Notulae Scientia Biologicae*. 14(2): 11204. **(SCOPUS indexed; UGC Journal No. 46380).**
3. **Saxena, S.** and Rao, P.B. 2021. Comparative GC-MS and FT-IR analysis of *Portulaca oleracea* L. and *Portulaca quadrifida* L. leaf extracts. *The Pharma Innovation Journal*. 10(12): 40-48. **(NAAS Rating: 5.23).**
4. **Saxena, S.** and Rao, P.B. 2021. Pharmacological and phytochemical assessment of *Anagallis arvensis* L. leaf extracts. *Asian Journal of Chemistry*. 33(8): 1831-1841. **(Impact Factor: 0.493; UGC Journal No. 8774, SCOPUS indexed).**
5. **Saxena, S.** 2021. Reviving the ethnomedicinal knowledge of Manila, District Almora (Uttarakhand). National Multidisciplinary E-Conference on Research in Science & Technology for Sustainable Development organized by Rajshree Shahu Science College, Amravati (M.S.) sponsored by Indian Science Congress Association. Issue:

287 (**Impact factor: 7.675**).

6. **Saxena, S.** 2021. Burnt weed smoke can enhance plant growth: a proper weed management. *International Journal of Trend in Scientific Research and Development*. 5(3): 728-730. (**Impact Factor: 6.410**).
7. **Saxena, S.** 2020. The current research status of endangered *Rhynchosyilis retusa* (L.) Blume: a review. *Asian Journal of Research in Botany*. 4(2): 16-25.
8. **Saxena, S., Rawat, D.S. and Rao, P.B.** 2020. *Malvastrum coromandelianum* (L.) Garcke: an invasive weed with multiple ethnopharmacological properties. *International Journal of Pharmacognosy and Phytochemical Research*. 12(1): 16-22. (**Impact Factor: 1.334; UGC No. 23335, SCOPUS indexed**).
9. **Saxena, S. and Rao, P.B.** 2018. Invasive alien plants: valuable elixir with pharmacological and ethnomedicinal attributes. *International Journal of Trend in Scientific Research and Development*. 2(3): 2063-2092. (**Impact Factor: 4.101**).
10. **Saxena, S. and Rao, P.B.** 2018. GC-MS screening of bioactive constituents and antioxidant profiling in an invasive weed, *Malvastrum coromandelianum* (L.) Garcke. *The Pharma Innovation Journal*, 7(4): 738-746. (**Impact Factor: 5.98; UGC No. 46096; NAAS rating: 5.03**).

### **Seminars/Conferences/Workshops**

1. Presented research paper entitled “Diversity and Habitat Specific Frequency of Macrofungi in Different Forests of Manila, Almora (Uttarakhand)” in International Conference on Recent Trends in Plant Science, held on 7<sup>th</sup> of January-2024, organized by PG & Research Department of Botany and Microbiologists Society of India (MBSI).
2. Presented research paper entitled “Conservation of Threatened Plants with Machine Learning: An Undeniable novel Tool” in National Conference on Role, Impact, Issues and Challenges of Artificial Intelligence: A Journey Towards Transforming the Society, held from 30<sup>th</sup> of March-2024 to 31<sup>st</sup> of March-2024, organized by the Department of Psychology, I.P. Govt. Girls P.G. College of Commerce, Haldwani and MEIT, Kumaon.
3. Presented research paper entitled “Macrofungal Diversity of Manila Forests, Almora (Uttarakhand)” in National Seminar on Climate Change and Sustainability of Natural Resources in Himalayan Region held on 18<sup>th</sup> of February-2024 to 19<sup>th</sup> of February-2024

organized by the Department of Botany, Soban Singh Jeena University, Almora, sponsored by Science and Engineer Research Board, India.

4. Presented research paper entitled “Impact of Climate Change on Human Wellbeing and Health in India” in National Seminar on Sustainability in Health and Wellbeing: Prospects, Issues and Challenges organized by the Department of Home Science, P.N.G. Govt. P.G. College, Ramnagar, Nainital (Uttarakhand), sponsored by ICSSR, New Delhi, held on 18<sup>th</sup> to 19<sup>th</sup> of March, 2023.
5. Presented research paper entitled “Reviving the Ethnomedicinal Knowledge of Manila, District Almora (Uttarakhand)” in National Multidisciplinary E-Conference on Research in Science & Technology for Sustainable Development held on 23<sup>rd</sup> of March-2021, organized by Rajshree Shahu Science College, Amravati (M.S.), sponsored by Indian Science Congress Association (ISCA).
6. Presented poster entitled “Assessment of Anti-inflammatory Activity, Antioxidant Potential and Tracer Elements of Some Selected Invasive Alien Weed Species” held from 13<sup>th</sup> to 14<sup>th</sup> of October-2018 in 9<sup>th</sup> Conference of Indian Science Congress Association, organized by the Department of Biological sciences, C.B.S.H., G.B.P.U.A.&T., Pantnagar, U.S. Nagar, Uttarakhand.
7. Presented research paper entitled “Therapeutic Evaluation of Some Selected and Conventionally Accrued Invasive Alien Plant Species of Kumaun Region” from 7<sup>th</sup> to 9<sup>th</sup> of March-2018, at Uttarakhand State Council for Science and Technology, Vigyan Dham, Dehradun.
8. Presented paper entitled “Evaluation of Antioxidant Capacity and Total Phenolic and Flavonoid Contents of Some Selected and Conventionally Accrued Wild Edible Fruits of Kumaun Himalaya” held from 15<sup>th</sup> to 17<sup>th</sup> of September-2017, during XXXX All India Botanical Conference of the Indian Botanical Society and National Symposium at Punjab University, Patiala.
9. Attended short courses on “Downstream Processing” held from 12<sup>th</sup> to 14<sup>th</sup> of December-2016 at IIT-Delhi.
10. Participated in one-day workshop on “Analysis of Food Testing Parameters” on 27<sup>th</sup> of November-2016 at Centre of Excellence for Mountain Biology (CEMB), Uttarakhand Council of Biotechnology (UCB), Biotech Bhavan, Haldi, U.S. Nagar, Uttarakhand.
11. Participated as a delegate in the “International Seminar on Role of E-Learning in Quality

Education” on 22 and 23<sup>rd</sup> of February-2015, held at R.H.G.P.G. College, Kashipur, U.S. Nagar, Uttarakhand.

12. Attended one-day workshop on “Space Technology and Its Applications” on 7<sup>th</sup> of March-2013, conducted by IIRMR, Jaipur, sponsored by NNRMS, ISRO, Bangalore and organized in R.H.G.P.G. College, Kashipur, U.S. Nagar, Uttarakhand.

### **FIP/FDP/Refresher Courses/Workshops**

1. Completed one week Faculty Development Programme in NEP Orientation and Sensitization Programme with **Grade A+** held from 13<sup>th</sup> of Nov-2024 to 22<sup>nd</sup> of Nov-2024 organized by UGC-MMTTC Ramanujan College, University of Delhi under the aegis of Ministry of Education (Govt. of India).
2. Completed two weeks Refresher Course in Botany with **Grade A+** held from 7<sup>th</sup> of Dec-2023 to 20<sup>th</sup> of Dec-2023 organized by UGC-MMTTC Madurai Kamaraj University, Madurai, Tamil Nadu.
3. Completed two weeks Refresher Course in Botany with **Grade A+** held from 29<sup>th</sup> of July-2023 to 13<sup>th</sup> of August-2023 organized by TLC, Ramanujan College, University of Delhi under the aegis of Ministry of Education (Govt. of India) PMMMMNMTT.
4. Completed two weeks Refresher Course in Botany with **Grade A+** held from 2<sup>nd</sup> of June-2022 to 15<sup>th</sup> of June-2022 organized by UGC-HRDC Bharathiar University, Coimbatore, Tamil Nadu.
5. Completed four weeks FIP (Faculty Induction Programme) / Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education” with **Grade A+** held from 16<sup>th</sup> of April-2021 to 15<sup>th</sup> of May-2021 organized by TLC, Ramanujan College, University of Delhi under the aegis of Ministry of Education (Govt. of India) PMMMMNMTT.
6. Completed one week FDP (Faculty Development Programme) on “Philosophical Methodologies in Higher Education: Research & Teaching” with **Grade A+** held from 22<sup>nd</sup> of March-2021 to 28<sup>th</sup> of March-2021 organized by TLC, Ramanujan College, University of Delhi under the aegis of Ministry of Education (Govt. of India) PMMMMNMTT.
7. Completed Beginner’s Course of Rovers & Rangers (online) held from 10<sup>th</sup> of August-

- 2020 to 12<sup>th</sup> of August-2020 organized by The Bharat Scouts & Guides, Uttarakhand.
8. Completed four weeks FIP (Faculty Induction Programme) / Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education” with **Grade A+** held from 16<sup>th</sup> of April-2021 to 15<sup>th</sup> of May-2021 organized by TLC, Ramanujan College, University of Delhi under the aegis of Ministry of Education (Govt. of India) PMMMMNMTT.
  9. Completed two weeks FDP (Faculty Development Programme) on “Managing Online Classes and Co-creating MOOCs 3.0” with **Grade- A** held from 25<sup>th</sup> of July-2020 to 10<sup>th</sup> of August-2020 organized by TLC, Ramanujan College, University of Delhi under the aegis of Ministry of Education (Govt. of India) PMMMMNMTT.

### **Awards and Recognitions**

1. Reviewer of the “*European Journal of Medicinal Plants*” 16<sup>th</sup> of Oct-2024 (PREJMP125525SHA).
2. Reviewer of the “*Current Journal of Applied Science and Technology*” 13<sup>th</sup> of Oct-2023 (Certificate No: SDI/HQ/PR/Cert/107958/DRS).
3. Reviewer of the “*International Journal of Plant & Soil*” 10<sup>th</sup> of Oct-2023 (Certificate No: SDI/HQ/PR/Cert/107784/DRS).
4. Reviewer of the “*Asian Food Science Journal*” 2<sup>nd</sup> of Feb-2023 (Certificate No: SDI/HQ/PR/Cert/96250/DRS).
5. Reviewer of the “*Asian Journal of Research in Animal and Veterinary Sciences*” 21<sup>st</sup> of Jan-2023 (Certificate No: SDI/HQ/PR/Cert/95954/DRS).
6. Reviewer of the “*Asian Journal of Research in Biology*” 23<sup>rd</sup> of Nov-2022 (Certificate No: IKP/PR/Cert/11154/DRS).
7. Reviewer of the “*Annual Research and Review in Biology*” 26<sup>th</sup> of Oct-2022 (Certificate No: SDI/HQ/PR/Cert/93204/DRS).
8. Reviewer of the “*Asian Journal of Biology*” 08<sup>th</sup> of Oct-2022 (Certificate No: SDI/HQ/PR/Cert/92607/DRS).
9. Reviewer of the “*Asian Journal of Research in Botany*” 22<sup>nd</sup> of Mar-2022 (Certificate No: SDI/HQ/PR/Cert/85301/DRS).
10. Reviewer of the “*Journal of Advances in Microbiology*” 21<sup>st</sup> of Jan-2022 (Certificate No: SDI/HQ/PR/Cert/78976/SHA).

11. Peer Reviewer of the “*Journal of Diseases and Medicinal Plants*” of Science Publishing Group w.e.f. 3<sup>rd</sup> of Sep-2021.
12. Conferred with “Research Award” in the International Conference for Award Winners in Engineering, Science and Medicine by INSO in the year 2023.
13. Conferred two times with “*Young Scientist Award*” in the International Scientist Awards on Engineering, Science, and Medicine by VDGGOOD Professional Association in the year 2020 as well as 2021.
14. Two times guest reviewer of the “*Academia Edu Letters*” published by Academia Edu.
15. Reviewer of the “*Oriental Journal of Chemistry*” (OJC), Volume 39 Issue 1 for the article entitled ‘In vitro Anti-diabetic and Antioxidant potential of the sprout of *Borassus flabellifer* L. Extract’ published on 5<sup>th</sup> of Jan-2023.
16. Reviewer of the “*Oriental Journal of Chemistry*” (OJC), Volume 38 Issue 1 for the article entitled ‘Secondary Metabolites Screening, in Vitro Antioxidant and Antidiabetic Activity of Marine Red Alga *Botryocladia Leptopoda* (J.Agardh) Kylin.’ published on 10<sup>th</sup> of Jan-2022.
17. Reviewer of the “*Oriental Journal of Chemistry*” (OJC), Volume 37 Issue 5 for the article entitled ‘Improvement of the Quality of the Local Beer «Tchukoutou» by Addition of Two Antioxidant Plants: *Ocimum Gratissimum* and *Vernonia Amygdalina*’ published on 20<sup>th</sup> of Oct-2021.
18. Reviewer of the “*Journal of Agricultural Science and Practice*” (JASP) 29<sup>th</sup> of Jul-2020.

### Seminars/Conferences/Workshops organized as Convenor/Co-convenor

S.N.	Position Held	Session	Achievements
1.	Eco-Club, Anti-drug Cell, Vigyan Parishad, Career Counselling Cell, Ek Bharat Shreshth Bharat, Women Harassment Redressal Cell	2019-20	<p><b>i)</b> Organized a Tree Plantation Programme under Eco-Club Cell on 9<sup>th</sup> of Jul-2019.</p> <p><b>ii)</b> Organized a Tree Plantation Programme under Eco-Club Cell to commemorate the state festival <i>Harela</i> and counting the vegetation (trees) planted in college premise in present and pervious years on 17<sup>th</sup> of Jul-2019, so that students could get a sense of the plant biodiversity.</p> <p><b>iii)</b> Organized a poster competition by Eco-Club Cell on the topic “<i>Plastic Waste and Elimination</i>” in the context of</p>


			<p>“Swachhta Hi Sewa” on 24<sup>th</sup> of Sep-2019.</p> <p><b>iv)</b> Organized one-day webinar on “<i>Biodiversity and Its Conservation</i>” held on 5<sup>th</sup> of Jun-2020 on the occasion of World Environment Day as a convener under Eco-Club Cell.</p> <p><b>v)</b> Organized one-day workshop cum seminar on “<i>Drug Abuse and Its Prevention</i>” held on 15<sup>th</sup> of Nov-2019 as a convener under Anti-drug and Prevention Cell.</p> <p><b>vi)</b> Organized one-day workshop cum seminar on “<i>Women Empowerment and Self-defense</i>” held on 28<sup>th</sup> of Dec-2019 as a convener under Women Harassment Redressal Cell.</p> <p><b>vii)</b> Presented a lecture entitled “<i>Green Campus Clean Campus</i>” organized by vigyan parishad on 13<sup>th</sup> of Nov-2019.</p> <p><b>viii)</b> Students were made to learn at least 130 common words along with few sentences of paired state language through Power Point Presentation entitled ‘<i>Kannada Language</i>’ on 15<sup>th</sup> of Nov-2019.</p> <p><b>ix)</b> Presented a lecture entitled “<i>Career Planning Process &amp; What the Employers Look For?</i>” organized by career counselling cell on 19<sup>th</sup> of Oct-2019.</p>
2.	Vigyan Parishad, NSS and RUSA	2021-22	<p><b>i)</b> Organized National Webinar on “<i>Climate Change and Green Technological Approaches for Adaptation</i>” held on 31<sup>st</sup> of Jul-2021 as a co-convener under Vigyan Parishad.</p> <p><b>ii)</b> Presented a lecture entitled ‘<i>Single Use Plastic Ban</i>’ under NSS one-day camp held on 17<sup>th</sup> of Dec-2021.</p> <p><b>iii)</b> Organized a <i>book fair</i> on 20<sup>th</sup> of May-2022 as a nodal and convener under RUSA.</p>
3.	NEP Review Committee, Anti-Drug Cell, NEP Orientation Committee	2022-23	<p><b>i)</b> Reviewed and presented a report regarding NEP-2020 on 3<sup>rd</sup> of Aug-2022 as a convener under NEP review committee.</p> <p><b>ii)</b> Organized an orientation/seminar entitled ‘<i>NEP-2020</i>’ as a convener of NEP seminar organizing committee held in 25<sup>th</sup> of Aug-2022.</p> <p><b>iii)</b> Presented a lecture entitled ‘<i>Drug Use and Its Prevention</i>’ under anti-drug cell held on 15<sup>th</sup> of Nov-2022.</p>



4.	Principal (in-charge)	2023-24	i) Organized NEP-2020 on 28 <sup>th</sup> of Aug-2023 as a convenor and Principal (in-charge) for newly admitted students.
5.	NEP Orientation, <i>Garhbhoj Diwas</i> Programme, Departmental Activities	2023-24	i) Organized NEP-2020 on 22 <sup>nd</sup> of Jul-2024 as a convenor and Principal (in-charge) for newly admitted students. ii) Organized <i>Garhbhoj Diwas</i> Programme on 7 <sup>th</sup> of Oct-2024 as convenor under Department of Botany. iii) Organized “Water Conservation and Awareness” Programme on 30 <sup>th</sup> of May-2024 and 13 <sup>th</sup> of Aug-2024 as convenor under Department of Botany. iv) Organized virtual labs workshops time-to-time for conducting science experiments.

### Additional Information

- a.) H-index: 05 in research paper publications.
- b.) Nodal/Convenor/Co-convenor in different college committees such as Head of the Department of Botany, Examination Committee, Virtual Labs Committee, NIRF and SIRF Committee, MIS Committee, Alumni Feedback Committee, Students Fees Committee, Admission Committee, Staff Statement Committee, Eco-Club Cell, Website Update Committee, Academic Calendar Committee, Fees Committee, etc.
- c.) Member in different college committees such as Proctorial Board Committee, College Premise and Development Committee, Vocational Courses Committee (Disaster Management), Construction and Maintenance Committee, etc.
- d.) Life Member, PLANTICA- Association of Plant Science Researchers (APSR).
- e.) Annual Member, Indian Botanical Society (IBS).
- f.) Rosalind Member of London Journal of Research in Science: Natural and Formal (LJRS), London Journal Press (U.K.).

  
 विभागाध्यक्ष  
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 मन्डिला (अल्मोड़ा)