

CURRICULUM-VITAE

PROFILE:

Prof. (Dr.) Mukesh Kumar is **Professor and Head** of the Department of Botany & Microbiology at Gurukula Kangri (Deemed to be University), Haridwar. With more than 37 years of distinguished teaching and 35 years of research experience, he has made significant contributions to the fields of **cyanobacterial diversity, Polyhouse Technology, ethnobotany, and Ecophysiology**. He has successfully led several externally funded research projects, authored and edited 18 scholarly books, published over 65 research papers, and contributed 55 book chapters. His distinguished contributions have earned him prestigious recognitions, including the **Shikshak Shree Samman, Birbal Sahney Award, Paryavaran Bhushan Samman, and Lifetime Achievement Award**. He is a Fellow of the Indian Botanical Society and actively promotes research, environmental conservation, and academic excellence through teaching, mentoring, and scientific leadership.



Academic Details:

- **Academic Qualifications:** D.Sc; Ph.D.; M.Phil; M.Sc.(Botany); M.Ed.
- **Research Area:** Cyanobacterial Diversity, Polyhouse Tech. and Ecophysiology, Ethnobotany
- **Class Taught:** Plant Physiology and metabolism, Cell biology, Agricultural Microbiology, Mushroom Culture Technology

Contact Details:

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SIIDCUL, Sector-9, Haridwar- 249403 U.K.

1. Achievements (Honour /Awards) :

S.No.	Name of the Honour / Award	Awarding Institutions	Year
1.	Shikshak Shree Samman	Department of Higher Education, Government of Uttar Pradesh, Lucknow	2013
2.	Birbal Sahney Award	Shri Ram Naik, Hon'ble Governor of U.P., on behalf of U.P. Hindi Sansthan, Government of Uttar Pradesh, Lucknow	2018
3.	Paryavaran Bhushan Samman	District Magistrate Bijnor On behalf of Akhand Bharat Bharti Seva Sansthan, Najibabad	2019
4.	Fellow of the Indian Botanical Society	Indian Botanical Society, Bareilly	2015
5.	Lifetime Achievement Award	Kalp Laboratories & Kaushambi Foundation, Mathura U.P.	2019
6.	Pustak Lekhan Samman	Gurukula Kangri (Deemed to be University)	2024

2. Research/ Theses Completed :

S.No.	Title of the Theses	Degree & Subject	University	Year
1.	Cyanobacterial Diversity of the Sub-Himalayan Belt of Northern Himalayas	D.Sc (Botany)	HNB Garhwal Central University, Srinagar(U.K)	2015
2.	A Study of Some Botanical Aspects of Polyhouse Grown Green Gram and Broad Bean Crops	Ph.D. (Botany)	HNB Garhwal University, Srinagar (U.K)	1994
3.	Analysis of Pollutant Induced Cytomorphological Changes in the Flora of Meerut	M. Phil (Botany)	Institute of Advanced Studies, Meerut University, Meerut (U.P.)	1989
4.	Cyanophyceae of Bijnor	M. Sc (Botany)	Meerut University, Meerut (U.P.)	1985
5.	Cost-Benefit Analysis of Teacher Education Programme at Senior Secondary Level	M. Ed (Education)	Meerut University, Meerut (U.P.)	1988

3. Details of the Research Projects Completed -

S. No	Title of the Projects	Funding Agency	Project Category	Amount Utilized (Rs)	Duration	Remark
1	A Study of Some Polyhouse Grown Green Gram and Broad Bean Crops	UGC, New Delhi	Minor	16,000/-	02 Years 1994-96	Project Completed Successfully
2	Biodiversity of Cyanophyceae of the Sub-Himalayan Belt	UGC, New Delhi	Major	5,00,725/-	03 Years 1999-2002	Project Completed Successfully
3	Assessment of Water Quality of the River Ganga in Relation to the Seasonal Diversity of Algae	UGC, New Delhi	Minor	70,000/-	1.5 Years 2009-10	Project Completed Successfully
4	Inventorization, Documentation, and Survey of the Cyanobacterial Forms of Three Himalayan States- UK, HP, and J&K	UGC, New Delhi	Major	11,10,593 / -	03 Years 2011-14	Project Completed Successfully
5	Ambient Air Quality Monitoring at Gajraula (U.P.)	NAMP-UPCB, Lucknow	Major	22.20 Lakh	03 Years 2018-21	Project Completed Successfully
6	Biofilm Forming Cyanobacteria in the Deterioration of Heritage of Uttarakhand	UCOST, Dehradun	Major	8.01 Lakh	02 Years 2022-24	Project Completed Successfully

4. Publications -

(i) Books (Authored/Edited)

S. No	Titles of the Books	Publisher's Address	ISBN	Edition
01.	Glimpses of Cyanobacteria	Daya Publishing House New Delhi-11002	81-7035-435-8	2006
02.	Soil Microflora	Daya Publishing House New Delhi-11002	978-81-7035-597-7	2009

03.	Cyanobacterial Biodiversity of the Sub-Himalayan Belt of Kumaon Region	Lambert Academic Publishing GmbH & Co. KG, Dudweiler Landstr. Saarbrücken, Germany .	978-3-8433-7672-3	2010
04.	Biodiversity: An Overview	IK International Publishing House Pvt. Ltd., New Delhi	978-93-80578-88-0	2011
05.	Biodiversity of Lower Plants	IK International Publishing House Pvt. Ltd., New Delhi	978-93-82332-41-1	2014
06.	Medicinal Plants: Aspects and Prospects	Biotech Books, New Delhi	978-81-7622-309-6	2014
07.	Jaivik Kheti (Hindi)	JP Gram Vikas Sansthan, Allahabad	978-93-83122-06-6	2015
08.	Vanaspatik Sampada: Prakriti Evam Paryavaran	Biotech Books, New Delhi	978-817622-360-7	2016
09.	Jeevandayini Neeli-Hari Kaai (Hindi)	Parilekh Prakashan, Najibabad	978-93-84068-67-7	2017
10.	Paryavaran Evam Jaiv Vividhta (Hindi)	Sadhana Prakashan, Allahabad	978-81-904402-1-8	2017
11.	Climate Change: An Impact on Biodiversity	Biotech Books, New Delhi	978-81-7622-431-4	2018
12.	Jaivik Kheti, Unnat Bhavishya	Parilekh Prakashan, Najibabad	978-93-84068-87-5	2019
13.	Horizons of Ethics, Integrity and Research Publication	ABS Books	978-93-91002-20-6	2022
14.	Anusandhan Prakashan: Vishwasneeya, Moolya Evam Naitikta (Hindi)	Nalanda Prakashan, Delhi	978-93-91018-10-8	2023
15.	Environment and Human Health: Global Issues	ABS Books	978-93-94424-88-3	2024
16.	Ramification of Environmental Changes on Human Health	ABS Books	978-93-94424-90-6	2023
17.	Ayurvedic Approach to Holistic Wellness	ABS Books	978-81-19708-04-8	2025
18.	Green Neuropharmacology Integrating Herbal Medicine With Modern Neuroscience	Hitech Publication	978-81-985635-3-8.	2026

5. Life Membership of Research Journals/Societies-

- (i) Indian Botanical Society, Meerut(U.P.) : Life Member
(ii) The Palaeobotanical Society, BSIP, Lucknow (U.P.) : Life Member
(iii) Phykos, IARI, Pusa, Chennai (T.N.) : Life Member
(iv) Vigyan Prasar Dream-2047, DST, New Delhi : Life Member
(v) Biohelica, Bhubneshwar (Odisha) : Life Member
(vi) Indian Science Congress Association, Kolkata (W.B.) : Life Member
(vii) International Society of Environmental Botanists, NBRI, Lucknow: Life Member
(viii) Association for Plant Taxonomy, BSI Dehradun (U.K.) : Life Member
(ix) Society of Human Resource and Innovation, Agra (U.P.) : Life Member
(x) Bulletin of the Botanical Society, Saugar (M.P.) : Life Member
(xi) Indian Science Congress Association, Haridwar Chapter (U.K.) : Life Member

6. Research Papers : 65 (Please see Annexure-I)

7. Chapters Contributed to International/ National Books : 55 (Please see Annexure-II)

8. Popular writings : 06 (Please see Annexure-III)

9. Paper presented in International/ National Conferences/Seminars: 67 (Please Annexure-IV)

10. All India Radio Broadcasts in public interest : 25 (Please see Annexure-V)

11. Organization of International/National Conference/Seminar/University-level meets:

S.No.	Name of the Event	Position held	Level	Year/ Duration
1	VI MJP Rohilkhand University, Bareilly Rovers-Rangers Meet	Organizing Secretary	University level	1998
2	National Conference on Climate Change, Environmental Hazards and Biodiversity Conservation'	Organizing Secretary	National	2016
3	International Conference on "Environment and Human Health: Global Issues"	Organizing Secretary	International	2022
4	International Seminar on "Ayurveda for One Health"	Organizing Secretary	International	2023
5	National Conference on "Health and Hygiene Issues in Current Scenario"	Organizing Secretary	National Conference	2025

6	Workshop on the topic, "Nutritional and Beneficial Herbal Products Formulations and Preparations"	Coordinator	Workshop	2022
7	Training Programme on the topic, "Self-Reliant Student	Coordinator	Training Programme	2022.

12. Research guidance to Ph.D. students-

S. No.	Title of the Theses	Name of the candidates	University	Year of Award
01.	Biological Effects of Polyhouse Grown Chick-Pea (<i>Cicer arietinum</i> L.) and Lentil (<i>Lens culinaris</i> Medek) Crops	Ms. Sabiha Hasnane	HNB Garhwal University, Srinagar	2002
02.	An Ecological and Taxonomic Investigation of the Cyanophycean Flora of the Foot-hills of Garhwal Himalayas of Uttaranchal (India)	Mr. Manoj Kumar Chaudhary	MJP Rohilkhand University, Bareilly	2004
03.	Cyanobacterial Diversity of the Sub-Himalayan Belt of Kumaon Region	Ms. Anjali Khare	MJP Rohilkhand University, Bareilly	2007
04.	Morphological and Physiological Studies on Soya bean and Horse-Gram Crops Under Polyhouse Environment.	Ms. Abhilasha Verma	MJP Rohilkhand University, Bareilly	2009
05.	Estimation of Water Quality of Ganges Flowing from Balawali to Hastinapur.	Ms. Ashu	MJP Rohilkhand Univ., Bareilly	2015
06.	Studies on the Effects of a widely Used Pesticide on the Growth and Development of Black Gram	Mr. Vaibhav Kashyap	MJP Rohilkhand University, Bareilly	2015

07.	A New Biochemical Approach to Study Ethnobotany of Medicinal Plants of District Bijnor (U.P.), and Their Application in Cure of Various Diseases/ Ailments	Ms.Garima Sharma	MJP Rohilkhand University, Bareilly	2015
08.	Estimation of Air Pollution and its Impact on the Road-Side Plants in Peetal Nagri.	Mr. Anshuman Gupta	MJP Rohilkhand University, Bareilly	2024
09.	Major ambient air pollutants and their impact on plant and human health in Gajraula city.	Mr. Deepak Kumar Saini	MJP Rohilkhand University, Bareilly	2023
10.	Design of Polyherbal Feminine Hygiene Wash For Anti-Microbial and Anti-Inflammatory Effects in Vulvovaginitis	Ms. Arushi Aren	Gurukula Kangri (Deemed to be Univ.), Haridwar	2025
11.	Dimensions of Ethanobotanical Plant Diversity in Sacred Groves of Kumaon Himalayas; A Management Strategy	Ms. Medha Durgapal	Gurukula Kangri (Deemed to be Univ.), Haridwar	2025
12.	Antimicrobial Effect of Calcium Carbonate Nanoparticles Synthesized in Plant Extract Against Microbes Causing Dental Infection	Ms. Ruchi	Gurukula Kangri (Deemed to be Univ.), Haridwar	2025
13.	Antimicrobial and Anti-inflammatory Properties of Algae Mediated Zinc Oxide Nanoparticles	Ms. Kanika Tomar	Gurukula Kangri (Deemed to be Univ.), Haridwar	2025

13. Expert Member-

S. No.	Designation	Work carried out	Sponsored by	Place & Duration
01.	Subject Expert of Botany	Preparation of Botany (Hindi-English) Glossary	Commission for Scientific & Technical Terminology, Ministry of HRD, Govt. of India	New Delhi May21-25,2012

02.	Subject Expert of Environmental Science	Preparation of Environmental Science (Hindi-English) Glossary	Commission for Scientific & Technical Terminology, HRD Ministry, Govt. of India	New Delhi Nov.27, 2006 to Dec. 01, 2006
03.	Subject Expert of Botany	Preparation of Botany (Hindi-English) Glossary	Commission for Scientific & Technical Terminology, HRD Ministry, Govt. of India	Govt. P.G. College, Gopeshwar (Chamoli), UK. Oct.17-21,2012

Editor: Biohelica, a Research Journal Published in Sambalpur, Odisha, India. ISSN 0976-5204

14. Reviewer: International Journal of Plant Physiology and Biochemistry

www.academicjournals.org/IJPB

15. Patent

S. No.	Patent Details	File No.	Patent filed to International/ National/State/ Central Agency
01	Title: A Synergistic Polyherbal wash for female hygiene	202511037894A	Controller General of Patent, Design and Trademarks, India

16. Lectures delivered as a Resource Person:

- (i) On the invitation of HOD Botany, under the aegis of UGC sponsored Scheme on the 'Vocalization of Education' delivered a lecture on the topic entitled, 'Dormancy- Types, Causes and its Breakages; Ecological Implications at the Department of Botany, HNB Garhwal University, Srinagar on May 05, 1995
- (ii) Delivered a lecture on UGC New Delhi Sponsored National Seminar on 'Seed Technology' at HNB Garhwal University, Srinagar on Feb 20, 1996
- (iii) On the invitation of HOD Botany, delivered a lecture on the topic entitled, 'Playhouse technique to augment plant growth' to Seed Technology: Vocational course students at the Department of Botany, HNB Garhwal University, Srinagar on Oct 20, 1997
- (iv) On the invitation of HOD Botany, delivered a lecture on the topic entitled, 'Cyanophyceae: The biofertilizers of nature' to M.Sc. I student at the Department of Botany, HNB Garhwal University, Srinagar on Oct 21, 1997
- (v) On the invitation of HOD Microbiology, delivered a lecture on the topic entitled, 'Cyanobacteria: Purification and culture' to M.Sc. II Microbiology students at the Department of Microbiology, CCS University, Meerut on March 03, 2001
- (vi) On the invitation of Coordinator of Industrial Microbiology, delivered a lecture on the topic entitled, 'Classification, Isolation, Identification of Bacteria, Fungi and Actinomycetes' at the Department of Industrial Microbiology, SM College, Chandauson Oct 14, 2004

- (vii) On the invitation of the Principal Govt. P.G. College, Lansdowne delivered three lectures to M.Sc Botany students in relation to the preparation for NET/SET coaching under the sponsorship of UGC, New Delhi on March 16, 2011.
- (viii) Resource person in International Seminar on “Ayurveda for one health” organized by Dept. of Bot. & Micro., GK(DU), Haridwar on Nov 7, 2023. Lecture delivered on the topic entitled, “The Context of Nanotechnology in Ayurveda”.
- (ix) Resource person in two days Comprehensive Agricultural Training: Nurturing Future Experts (CAT-NFE) organized by Society for the Advancement of Agricultural, Horticultural and Allied Science (SAAHAS), Kurukshetra, Haryana, on Nov 28-29, 2023. Lecture delivered on the topic entitled, “Crop Physiology”.
- (x) Chaired Technical Session in International Conference on “Veda Vijana & Sanskriti Mahakumbha” organized by GK(DU), Haridwar, on Dec 23-25, 2023.
- (xi) Resource person in State Level Seminar organized by DIET, Roorkee, on Jan 19, 2024. Lecture delivered on the topic entitled, “Excellence in Biology at Senior Secondary Level”.
- (xii) Guest Speaker in seminar on “Current Trends of Teaching and Research In S & T”, organized by Motherhood University, Roorkee, on Feb 5, 2024. Lecture delivered on the topic entitled, “Current Trends of Teaching and Research in S & T”.
- (xiii) Resource person in National Webinar on “Significance of Life Sciences in Advancing Human Welfare”, NRR Govt. Degree College, Mahabubabad, on Feb 27, 2024. Lecture delivered on the topic entitled, “Role of Life Sciences in Human Welfare”.

17. Co-curricular responsibilities (2020-21 onwards)

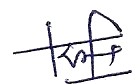
- Member of Discipline/Student Grievance Redressal Committee Dept. of Botany & Microbiology, Chemistry, Physics and Maths & Statistics (2021-22)
- Member of UFM A/B Evaluation Committee (2021-22)
- Member of Teaching Staff Grievance Redressal Committee (2021-22)
- Convener, Committee for the establishment of UG Botany Syllabus under New Education Policy-2020 (FY 2021-22)
- Examiner to conduct B.Sc. Industrial Microbiology (2021-22)
- Microbiology Practical Examination (2021-22)
- Co-Coordinator, Jhanki Sanchalan of 95th Balidan Divas of Swami Shraddhanand (2021-22)
- Member, Professor Screening Committee (2021-22)
- Member, Committee for Checking of the documents of the candidates appearing for interview of teaching posts (2021-22)
- Member, BOS, Dept. of Botany & Microbiology (2021-22)
- Coordinator, M.Sc. Microbiology Admissions (2022-23)
- Chairman, U.P. Scholarship, (2022-23)
- Member, Univ. Flying Squad, May 2023
- Main Exam Flying Duty (11- 7- 2022 to 13- 7- 2022)

- Examiner Theory Examination
- Professor In-charge, Study Tour of Research Scholars to Punya Bhoomi Kangri on 12-11-2022
- Professor Incharge "Study Tour to AMPTECH- 2023 EXPO" dated 04-02-2023
- Coordinator, SS Health Center, GKV, Haridwar (2023-24)
- Coordinator, M.Sc. Micro. Admissions (2023-24), GKV, Haridwar
- Chairman, U.P. Scholarship, (2023-24)
- Member, Univ. Flying Squad (2023-24)
- Chairman, Departmental Research Committee (2024-25 and 2025-26)

18. Foreign Visit to Present Research Papers in International Conferences:

Presented four research papers in International Conferences in the following countries-

- Nepal : Three papers (02 in Kathmandu and 01 at Bhairwa)
- Sri Lanka : One Paper in Colombo



Dr. MUKESH KUMAR
Professor of Botany

**RESEARCH PAPERS PUBLISHED IN PEER REVIEWED/SCOPUS/UGC LISTED
JOURNALS/PROCEEDINGS
(2020 onwards)**

1. Gupta A, Kumar M, Chauhan A, Kumar A, and Tripathi A. 2020. Assessment of air pollution tolerance and evaluation of air pollution anticipated performance index of various plants and their application in the planning of Moradabad city, India. *Poll. Res.* 34(4), 1273-1283. ISSN 0257-8050.
2. Saini, D. K. and Kumar, M. (2022). Seasonal changes in respiratory health status of road-side vendors in industrial city Gajraula. *Pollut. Res.* 41(3), 1106-1111.
3. Saini, D. K., Gupta, A. and Kumar, M. (2021). Estimating the response of some plant species to ambient air pollution in industrial city Gajraula for potential green belt development. *Plant Archives*, 21(2), 565-575.
4. Saini, D. K. and Kumar, M. (2021). Respiratory health effects of ambient air pollutants on road-side vendors in industrial city Gajraula, Uttar Pradesh, India. *Plant Archives*, 21(2), 697-703.
5. Saini, D. K., & Kumar, M. (2024). Seasonal variation in biochemical parameters of few medicinal plants in industrial area of Gajraula of district Amroha (UP), India. *Flora and Fauna*, 30, 44-50.
6. Durgapal M, and Kumar M (2024). A case study on usage patterns of wild edible plants in sacred groves of Kumaon Himalaya. *African Journal of Biological Sciences*, 6(13), 6780-6797.
7. Durgapal M, Kumar M and Arya AK (2024). Traditional indigenous values of ethnobotanical plants preserved in selected sacred groves of the Almora District (Western Himalayas), Uttarakhand, India. *Ethnobotany Research and Applications*, 27(48), 1-16.
8. Ruchi, Kumar, M. (2024). Antibacterial and anti-inflammatory potential of *Azadirachta indica* against dental bacteria. *Environment Conservation Journal*, 25(4), 1140-1149.
9. Aren, A. and Kumar, M. Cognizance. (2024). Formulation and Health Implications of Polyherbal Feminine Hygiene Wash. *International Journal of Pharmaceutical Sciences and Drug Research*, 16(3), 485-495. DOI: [10.25004/IJPSPDR.2024.160322](https://doi.org/10.25004/IJPSPDR.2024.160322)

10. Saini, D.K. and Kumar, M. (2024). Seasonal Variations in Biochemical Partameters of few Medicinal Plants in Industrial Area of Gajraula of District Amroha (UP), India. *Flora and Fauna*, 30(1), 44-50. DOI: [10.33451/florafauna.v30i1pp44-50](https://doi.org/10.33451/florafauna.v30i1pp44-50)
11. Kumar, V., Kumarasamy, V., Bhatt, P., Dixit, R., Kumar, M., Shukla, C. P., Subramaniyan, V. and Kumar, S. (2024). Ultrasound assisted techniques for starch modification to develop novel drug delivery systems: A comprehensive study. *Journal of Bioactive and Compatible Polymers*, 39(4), 279-297. DOI:[10.1177/08839115241249143](https://doi.org/10.1177/08839115241249143)
12. Malik, M. K., Kumar, V., Kumarasamy, V., Singh, O. P., Kumar, M., Dixit, R., Subramaniyan, V. and Singh, J. (2024). Film Coating of Phosphorylated Mandua Starch on Matrix Tablets for pH-Sensitive Release of Mesalamine. *Molecules*, 29(13), 3208. DOI: 10.3390/molecules29133208.
13. Aradhana, Kumar, M., Negi, R., & Kanika. (2025). Molecular identification and GC-MS analysis of cyanobacteria and algae isolated from historic monuments in Uttarakhand. *Environment Conservation Journal*, 26(4), 1293–1302. <https://doi.org/10.36953/ECJ.33713119>
14. Ruchi, Kumar, M., & Negi, R. (2025). Eco-friendly synthesis of calcium carbonate nanoparticles using *Azadirachta indica* extract and evaluation of their antibacterial and anti-inflammatory properties. *Journal of Medical Pharmaceutical and Allied Sciences*, 14(5), 1–7. <https://doi.org/10.55522/jmpas.V14I5.6905>
15. Ruchi, Kumar, M., & Negi, R. (2025). Evaluation of the phytochemical and antimicrobial activity of *Achyranthes aspera* stem extract against dental infection. *Sarcouncil Journal of Agriculture*, 4(3), 19–27 <https://doi.org/10.5281/zenodo.15771572>
16. Aren, A., Kumar, V. and Kumar, M. (2025). Assessment of response surface methodology-optimized polyherbal feminine hygiene wash against *Candida albicans*. *Journal of Medical Pharmaceutical and Allied Sciences*, 4(2), 21-26.

17. Negi, R., Aradhana, & Kumar, M. (2025). Seasonal dynamics of cyanobacterial and green algal communities on historical heritage sites of Garhwal Himalaya. *Journal of Mountain Research*, 20(2), 338–348. <https://doi.org/10.51220/jmr.v20-i2.38>
18. Negi, R., Aradhana, & Kumar, M. (2026). Green Synthesis and Physicochemical Characterization of Copper Oxide Nanoparticles Mediated by *Azadirachta indica* A. Juss. Leaf Extract. *Journal of Chemical Health Risks*, 16(2), 1106.
19. Kumar, R., Kumar, M., Purohit, H., & Negi, K. (2026). Sustainable use of forest litter for composting and fire risk reduction in Dalimsain, Uttarakhand. *Environment Conservation Journal*, 27(1), 180-189.
20. Bhatt, P., Kumar, V., Kumar, M., Singh, S., Garg, S., & Ali, S. S. (2025). Development and characterization of sodium tripolyphosphate-crosslinked *Echinochloa esculenta* (Ghingora) starch microspheres as potential drug carrier. *International Journal of Biological Macromolecules*, 146807. Bhatt, P., Kumar, V., Singh, S., Garg, S., Kumar, M., Wong, L. S., & Subramaniam, V. (2025). Enzymatic debranching of starch: Techniques for improving drug delivery and industrial applications. *Starch-Stärke*, 77(4), e202400224.
21. Kanika, Durgapal, M., Aradhana, & Kumar, M. (2025). Green synthesis and antimicrobial activities of *Arthrospira platensis* zinc oxide nanoparticles. *Environment Conservation Journal*, 26(2), 529–538. <https://doi.org/10.36953/ECJ.30652998>
22. Aradhana, Kumar, M. (2025) Green Synthesis and Characterization of Silver Nanoparticles Using *Crotalaria spectabilis* Roth. *Dizhen Dizhi*. 17(9). 34-46.
23. Durgapal, M. and Kumar, M. (2025). कुमाऊँ हिमालयी क्षेत्र में स्थित पवित्र उपवनों का महत्व. अश्लिका, राजभाषा कार्यान्वयन समिति द्वारा प्रसारित पत्रिका, वाडिया हिमालय भूविज्ञान संस्थान, देहरादून, 10, 37-42.
24. Kanika & Kumar, M. (2025). Evaluation of the anti-inflammatory and antioxidant activities of algae-mediated zinc oxide nanoparticles. *Archives of Agriculture and Environmental Science*, 10(2), 205-209.
25. Saini D. K., Singh M., Pandey J. K., Rathore S., Singh R. P., Kumar M. (2025) Green Synthesis of Nanoparticles for Biomedical Applications, *J. Mater. Environ. Sci.*, 16(10), 1833-1859

26. Saini D. K., Singh M., Pandey J. K., Rathore S., Singh R. P., Kumar M. (2025) Green Synthesis of Nanoparticles for Biomedical Applications, J. Mater. Environ. Sci., 16(10), 1833-1859

Annexure:II

CHAPTERS PUBLISHED IN INTERNATIONAL/NATIONAL BOOKS (2020 onwards)

1. Kumar M 2020 Covid-19: Socio-Religio-Cultural Aspects in Relation to Prevent Corona Spread, pp. 22-28 *In*: Singh AK & Yadav SPS (Eds) Indian Philosophical Beliefs: In Context to Corona. Anu Books, Delhi; ISBN 978-93-87922-08-2.
2. Durgapal M, Saini DK and Kumar M 2023 Protected Areas of Nature: A Storehouse for Conserving Biodiversity, pp 131-144 *In*: Kumar M and Kumar V (Eds) Environment and Human Health: Global Issues, ABS Books, Delhi [ISBN 978-93-94424-88-3].
3. Durgapal M and Kumar M 2023 Role of Sacred Groves (SGs) and Forests to Mitigate Climate Change, pp 1-10 *In*: Kumar M and Kumar V (Eds) Ramifications of Environmental Change on Human Health, ABS Books, Delhi [ISBN 978-93-94424-90-6].
4. Saini DK, Durgapal M and Kumar M 2023 Environment and Health, pp 298-304 *In*: Kumar M and Kumar V (Eds) Environment and Human Health: Global Issues, ABS Books, Delhi [ISBN 978-93-94424-88-3].
5. Durgapal M and Kumar M 2025 Sacred Groves: Pool of Traditional Knowledge on Medicinal Plants, pp 47-55 *In*: Kumar M, Kumar V, Kumar S and Jangra AK (Eds) Ayurvedic Approach to Holistic Wellness, ABS Books, Delhi [ISBN 978-81-19708-04-8].
6. Negi, R., Aradhana and Kumar, M. (2023). Significance of Algae and Cyanobacteria in Mitigating Climate Change, pp 201-224, *In*: Kumar M & Kumar V (Eds) Environment and Human Health: Global Issues, ABS Books, Delhi [ISBN 978-93-94424-88-3].
7. Negi, R., Aradhana and Kumar, M. (2023). Impact of Climate Change on Algal Communities, pp 130-156, *In*: Kumar M & Kumar V (Eds) Ramifications of Environmental Change on Human Health, ABS Books, Delhi [ISBN 978-93-94424-90-6].

8. Aradhana., Negi, R and Kumar, M. (2023). Climate Change and Air Pollution: Major Threats to Historical Monuments, pp 77-89, *In: Kumar M & Kumar V (Eds) Environment and Human Health: Global Issues*, ABS Books, Delhi [ISBN 978-93-94424-88-3].
9. Aradhana., Negi, R and Kumar, M. (2023). Microalgae: Biological Sequesters of Carbon Dioxide, pp 203-212, *In: Kumar M & Kumar V (Eds) Ramifications of Environmental Change on Human Health*, ABS Books, Delhi [ISBN 978-93-94424-90-6].
10. Negi, R., Aradhana and Kumar, M. (2025). The Concept of Nanotechnology in Ayurveda, pp 72-80 *In: Kumar M, Kumar V, Kumar S and Jangra AK (Eds) Ayurvedic Approach to Holistic Wellness*, ABS Books, Delhi [ISBN 978-81-19708-04-8].
11. Kanika., Ruchi and Kumar., M (2023). Impact of cosmetics on the Environment, pp 122-130, *In: Kumar M & Kumar V (Eds) Environment and Human Health: Global Issues*, ABS Books, Delhi [ISBN 978-93-94424-88-3]
12. Ruchi., kanika and Kumar., M (2023). Dental and Oral Health in Relation to Environmental Changes, pp 257-263 *In: Kumar M & Kumar V (Eds) Environment and Human Health: Global Issues*, ABS Books, Delhi [ISBN 978-93-94424-88-3]
13. Kanika., Ruchi and Kumar., M (2023). Climate change Accounting and Public Health Issues, pp 213-225 *In: Kumar M & Kumar V (Eds) Ramifications of Environmental Change on Human Health*, ABS Books, Delhi [ISBN 978-93-94424-90-6]
14. Ruchi., kanika and Kumar., M (2023). Response of climate change towards dental health pp 193-201, *In: Kumar M & Kumar V (Eds) Ramifications of Environmental Change on Human Health*, ABS Books, Delhi [ISBN 978-93-94424-90-6]
15. Aren, A. and Kumar, M. (2023). Environmental Factors Associated with Antimicrobial Resistance. M. Kumar and V. Kumar (Eds), *Ramification of Environmental Change on Human Health* (173-192). ABS Books, New Delhi, India. [ISBN 978-93-94424-90-6].
16. Aren, A. and Kumar, M. (2023). Global Impact of Environmental Pollution: Causes and Risks. M. Kumar and V. Kumar (Eds), *Environment and Human Health: Global Issues* (24-44). ABS Books, New Delhi, India. [ISBN 978-93-94424-88-3].

POPULAR WRITINGS

1. Kumar M 2010 Neel Harit Shaiwal Aur Swasthya-1(Hindi), pp20-23, Vigyan, Allahabad; ISSN 373-1200.
2. Kumar M 2010 Neel Harit Shaiwal Aur Swasthya-2 (Hindi), Vigyan Garima Sindhu, CSTT, Ministry of HRD, Govt. of India, New Delhi.
3. Kumar M 2018E-Kachra: Samasya aur Prabandhan (Hindi) Shaudharsh (Dec 2018-Feb2019), Najibabad, pp. 71-73
4. Kumar M 2019 Krishi mein Neeli-Hari Kaai Ka Jaiv Urvarak Ke Roop Mein Upyog (Hindi)2019 Shaudharsh (March-May), Najibabad pp. 20-23.
5. Kumar M 2021 Hamari Saanskritik Virasat auryuva (Hindi), Spandan, Najibabad, pp. 5.
6. Kumar M 2015 Neel Harit Shaiwal: Vaikalpit Bhojan Srot (Hindi), Communicated to Vigyan, Allahabad.

**CONFERENCE / SEMINAR / SYMPOSIA / WORKSHOPS ATTENDED FOR THE
PRESENTATION OF RESEARCH PAPERS IN INDIA AND ABROAD**

A: INTERNATIONAL CONFERENCE

1. Kumar M 2009 Species diversity of cyanobacteria from various habitats of Haldwani, Uttarakhand, pp. 184, Poster presented in International Conference: 7th Asia-Pacific Conference on Algal Biotechnology on 'Algal Biotechnology in the Asia-Pacific Region: New Challenges and Opportunities for the 21st Century' held at Delhi University, Delhi, Dec 1-4.
2. Khare & Kumar M 2010 Freshwater cyanobacterial diversity of Doon valley, pp. 55, Poster presented in 'International Symposium on Phycological Research' held at Banaras Hindu University, Varanasi, Feb 25-27.
3. Kumar M. 2010. Epiphytic cyanobacterial diversity of the foot-hills of Garhwal Himalaya of Uttarakhand, India. Paper presented in International Conference on, 'Biodiversity, Livelihood and Climate Change in the Himalayas' held at Kathmandu, Nepal, Dec 12- 14 .
4. Kumar M, Bhushan B and Gupta RK 2012. Cyanobacterial Nuisance. Paper presented in International Symposium on Mountain Resource Management in a Changing Environment held at Kathmandu University, Nepal, May 29-31, 2012.
5. Kumar M and Bhushan B 2012. Assessment of water quality of river Ganga at Shukratal in relation to the potability norms. Paper presented in International Conference on Eco Revolution- 2012 held at Colombo Sri Lanka, Aug.18-20, 2012
6. Kumar M 2012. Utility of Mass Media in Agriculture Extension. Paper presented in International Symposium on Agricultural Communication and Sustainable Rural Development held at GB Pant University of Agriculture University, Pantnagar, UK, Nov. 22-24, 2012
7. Kumar M and Gupta RK 2014 Seasonal variation of cyanobacterial taxa recorded from Kotdwar, district Pauri Garhwal, Uttarakhand, India. Paper presented in International Conference held at Bhairahawa, Nepal from Nov. 1-3, 2014

B: NATIONAL CONFERENCE

1. Kumar M and Srivastava AK 1989 Effect of urban waste water on the wild flora of Meerut, paper presented in National Seminar on 'Forest People and Environment' organized by Society for Advancement of Botany in India held at Meerut College, Meerut (U.P).
2. Kumar M and Srivastava AK 1990 Epidermal variations induced by phytotoxicity of water pollutants in wild plants, paper presented in 13th All India Botanical conference organized by The Indian Botanical Society held at Nagpur University, Nagpur (M.P).
3. Kumar M and Goyal AK 1995 Impact off polyhouse environment on vegetative and reproductive growth of chick-pea (*Cicer arietinum* L.) crop, paper presented in National Conference of Academy of Plant Sciences India held at DAV College, Muzaffarnagar (U.P).
4. Kumar M and Goyal AK 1995 Influence of polyhouse environment on the biomass, productivity and yield of *Vicina faba* and *Vigna radiata* saplings, paper presented in 18th All India Botanical Conference held at Jammu University, Jammu (J & K).
5. Kumar M, Goyal AK and Paliwal GS 1996 Effects of polyhouse conditions on the growth of *Vicia faba* and *Vigna radiata* crops, paper presented in National Seminar on 'Seed Technology' held at HNB Garhwal University, Srinagar (Uttarakhand).
6. Kumar M and Kumar H 1997 A note on some species of *Aulosira* with a new variety (Cyanophyceae, Nostocales), paper presented in National Seminar on 'Biological Diversity and Human Welfare' organized by Academy of Plant Sciences India at Govt (P.G.) College, Rishikesh (Uttarakhand).
7. Kumar M and Kumar H 1999 Eco-taxonomic investigations on the cyanophyceae of Bijnor (U.P): Chroococcaceae (Chroococcales), paper presented in 22nd All India Botanical Conference held at Mithi Bai College, Mumbai (MR).
8. Chaudhary MK and Kumar M 2000 A little known species of *Utricularia* from *Najibabad*, paper presented in National Symposium on 'Microbes and Human Welfare- Microbe 2000' held at Meerut University, Meerut (U.P).

9. Kumar M and Kumar H 2000 Cyanobacterial flora of Laldhang, paper presented in 23rd All India Botanical Conference held at Meerut University, Meerut (U P).
10. Kumar M 2001. Influence of phytotoxicity of water pollutants on wild plants, paper presented in the 24th All India Botanical Conference held at Osmania University, Hyderabad.
11. Paliwal MK and Kumar M 2001 Cyanobacterial flora of Ramnagar (Nainital), paper presented in 24th All India Botanical Conference, held at Osmania University, Hyderabad.
12. Kumar M 2002 participated in the workshop on 'Role of biotechnology in the uplift of women in India held at RBS College, Agra (UP) from Jan 24-25.
13. Chaudhary MK and Kumar M 2005 Freshwater epilithic chroococcales of Haridwar (Uttaranchal) with new records, paper presented in National Seminar on 'Sustainable Water Management' held at Dr SP Mukerjee Govt. College, Phaphamau Allahabad from Oct 26-28.
14. Chaudhary M.K and Kumar M 2005 Epiphytic chroococcales of fresh-water bodies of Rishikesh (Dehradun) Uttaranchal, paper presented in National Seminar on 'Sustainable Water Management' held at Dr. SP Mukerjee Govt. College, Phaphamau Allahabad from Oct 26-28.
15. Kumar M 2006 participated in National Seminar on 'Biodiversity and Germplasm Conservation', held at DN College, Meerut (UP) on Nov 14.
16. Khare A, Kumar M and Kumar P 2008. Population dynamics of cyanobacterial flora of the sub-Himalayan belt of Kumaon region, paper presented in National Seminar on 'Higher Education: Vision-2015' held at Govt (PG) College, Noida (UP) on Feb 17.
17. Ashu and Kumar 2008 Effect of water pollution in the physical and mental development of child, paper presented in National Seminar on 'Family-A Stepping Stone in Holistic Development of Child' held at RBD College, Bijnor (UP) Sept 27-28.
18. Kumar M 2008 Plant Variety Protection and Farmers, paper presented in National Seminar on 'Intellectual Property Rights in Developing Countries' held at SMJN (PG) College, Haridwar (UK) from Sept 27 -28.

19. Ashu, Kumar M and Kumar P 2008. Effects of pollution on the quality of Ganga water, paper presented in 'Higher Education: Vision-2015' held at Govt (PG) College, Noida (UP), on Feb 17.
20. Kumar M 2008 Cyanobacterial poisoning, paper presented in National Seminar on 'Environment and Sustainable Development' held at Meerut College, Meerut, on November 14.
21. Kumar M 2008 Epiphytic cyanobacterial flora of freshwater bodies at Laldhang (Haridwar), Uttarakhand (India), abstract published in National seminar in 31st Annual Conference of Indian Botanical Society held at Allahabad University, Allahabad, Dec 17-19.
22. Kumar M 2008 Quality assurance in higher education institutions, paper presented in National Seminar on 'Higher Education: Vision-2015' held at Govt (PG) College, Noida (U P), on Feb 17.
23. Kumar M 2008 Biodiversity conservation for better world, paper presented in National Seminar on 'Natural resources: their protection and conservation' held at Sahu Jain College, Najibabad from Aug 30-31.
24. Kumar M 2009 Participated in National Workshop on 'Ganga Pradushan Ka PaudhonDwara Prabandhan' held at Dev Sanskriti University, Shanti Kunj, Haridwar, Nov 24.
25. Kumar M 2009 Cyanobacterial diversity of the sub-Himalayan belt of Himachal Pradesh, pp 163-171, Paper presented in National Seminar on 'The Present Status of Medicinal Plants: Aspects & Prospects' held at Varanasi from Jan 31 to Feb 01
26. Kumar M 2009 Participated in National Seminar on 'Mulyaparak Shiksha-RashtriyaParisanvad' held at Dev Sanskriti University, Shanti Kunj, Haridwar, Oct 03-04.
27. Kumar M 2009 Species diversity of Chroococcales from Shukratal, District Muzaffarnagar (UP), pp 175-181, paper presented in National Seminar on 'Biodiversityto Biotechnology' held at Allahabad, Oct 22-24.
28. Ashu and Kumar M 2010 Monitoring of Ganga water at Shukratal, District Muzaffarnagar (UP), pp 48, Poster presented in National Conference on 'Recent

Trends in Conservation, Technology and Utilization of Bioresources’ held at Dehradun, Feb 23.

29. Kumar M 2010 and Singh D 2010 Values in relation to environmental conservation, Paper presented in National Seminar on ‘Values in Life and Education’ held at KNMB Girls P.G. College, Chandausi (Moradabad), Aug 18
30. Kumar M and Singh D 2010 Role of media in agriculture, Paper presented in National Conference on ‘Values in Life and Education’ held at KNMB Girls P.G. College, Chandausi (Moradabad), Sept 13-14
31. Kumar M 2010 Indian Mythology and Phytodiversity Conservation, Paper presented in National Conference on ‘New Horizons in Plant Sciences’ held at Meerut College, Meerut, Oct 23-24.
32. Kumar M 2010 Role of moral values in relation to the conservation of environment with particular reference to ‘Grah and nakshatra’ plants. Paper presented in State Level Conference on ‘Role of Science and Technology in the Development of Uttarakhand State’ held at Bageshwar, Oct 25-26.
33. Kumar M 2010. Mutagenic-Soyabean. Paper presented in National Conference on ‘Traditional conservation of plant diversity and energy resources vis-a-vis biotechnological tools for sustainability’ held at Meerut, Dec 25-26.
34. Kumar M 2012. Pilgrimage and Tourism with special reference to the potability of the Ganga water. Paper presented in National Seminar on Industrial Pollution, Environment and Biodiversity held at Hindu College, Moradabad, Feb.18, 2012
35. Kumar M and Bhushan B 2013. Nostocales of Jammu. Paper presented in National Symposium on ‘Fundamental and Applied Phycology’ held at the Department of Botany, Punjabi University, Patiala, March 25-26, 2013 and also chaired a technical session during the Symposium.
36. Kumar M 2013. Presented a poster on Cyanobacterial diversity in the National Conference on Resource Management and its Sustainable Use held at Govt. P.G. College, Rishikesh, March 22-23, 2013.
37. Kumar M 2013 Presented a poster in twodays workshop on ‘Life Skills and Mind Management, held at Govt. P.G. College, Rishikesh, Sept. 24-25, 2013.

38. Kumar M 2013. Cyanobacterial Blooms in relation to public health. Paper presented in the Indian Botanical Society held at DDU Gorakhpur University, Gorakhpur, Oct. 18-20, 2013
39. Kumar M 2014. Potability norms and water quality of River Ganga at Shukratal. Paper presented in National Seminar on 'Environmental Economics and Social Sustainability' held at Govt. P.G. College, Dwarahat (Almora), Dec. 4-5, 2014.
40. Kumar M 2014. Indian mythology and phytodiversity conservation. Paper presented in National Seminar on 'Environmental Globalization and Quality of Life' held at Govt. P.G. College, Rudrapur (US Nagar), Dec.2-3,2014.
41. Kumar M 2015. Seasonal variation of cyanobacteria recorded from Kotdwar, district Pauri Garhwal. Paper presented in National Conference held at Bareilly College, Bareilly, Feb. 25-26, 2015.
42. Kumar M 2015. Attended workshop on 'Quality Education: An Investment for Future' at MJP Rohilkhand University, Bareilly from Feb. 13-15, 2015.
43. Kumar M 2015. Enumeration of cyanobacterial taxa of Kotdwar, district Pauri Garhwal, India. Paper presented in ISCA (Haridwar Chapter) National Conference on 'Science and Technology for Indigenous Development in India' held at GK University, Haridwar, Sept. 28-30, 2015.
44. Kumar M 2015. Gangajal in Relation to the Potability Norms. Paper presented in National Seminar on Innovative, Advance Research in Bio-medical and Environmental Dynamics held at Dayal Singh College, University of Delhi, Delhi, Oct. 9-10, 2015.
45. Kumar M 2015. Algae in relation to water quality of River Ganga at Shukratal. Paper presented in National Seminar on 'Challenges in Plant Sciences: Now and Then' held at CCS University, Meerut on Dec. 08-10, 2015.
46. Kumar M 2016. Drinking quality of river Ganga water. Paper presented in National Seminar on 'Environment Scenario: Climate Change and Sustainable Development held at Krishna College of Science & Information Technology, Bijnor, Jan. 30, 2016.
47. Kumar M 2016. Climate change and scenario of food security. Paper presented in National Seminar on 'Climate Change, Environmental Hazards and

Biodiversity Conservation’ held at Sahu Jain College, Najibabad on March 27-28, 2016.

48. Kumar M 2016. Biodiversity, Climate Change and Sustainable Development. Paper presented in ISCA National Seminar on Science and Technology for National held at Gurukula Kangri Vishwavidyalaya, Haridwar, Nov. 20-22, 2016.
49. Kumar M 2016. Distribution pattern of blue-green algae in Najibabad. Paper presented in National Seminar on ‘Emerging Environmental Concerns and Public Health’ held at SMP Govt. Girls P.G. College, Madhavpuram, Meerut on Dec. 11-12, 2016.
50. Kumar M 2016 Participated in Workshop on Application on Isotope and Radiation Technology in Water Resources, Healthcare, Agriculture and Food Preservation sponsored by Bhabha Atomic Research Center Mumbai and organized at HESCO, Dehradun on Dec. 02, 2016.
51. Kumar M 2018 Poster presented in the National Symposium on ‘Advances in Biology of Algae and Cyanobacteria’ at CAS in Botany, Institute of Science, BHU, Varanasi on Feb. 08-09, 2018.
52. Kumar M 2018 Prospective of digital technology in nature conservation issues. Paper presented in National Conference on ‘Digitalization in India: The Way to Knowledge Economy’ held at Sahu Jain (PG) College, Najibabad on Dec. 21-22, 2018.
53. Kumar M 2019 Toxic species of Blue-Green Algae. Paper presented in International Conference on ‘Recent Advances in Agricultural, Environmental & Applied Science for Global Development’, Dr. YS Parmar University of Horticulture and Forestry, Nauni, Solan, Sept. 27-29, 2019.
54. Kumar M 2019 Use of biofertilizers: Need of the day. Paper presented in National Conference cum Workshop on ‘Channelling as Tools and Techniques to Agriculture Biotechnology, Microbiology and Molecular Biology’ held at LALP Laboratories, Mathura on Nov. 24-25, 2019.
55. Kumar M 2019 Biochemical and physiological effects on selected roadside plants growing at NH-9. Paper presented in National Conference on ‘Green Development for Environmental Concerns & Sustainable Progress’ held at AS (P.G) College, Mawana (Meerut) on Dec. 01, 2019.

56. Kumar M 2019 Toxic cyanobacterial issues. Paper presented in ISCA, Kanpur Chapter organized National Conference on 'Science & Technology: Rural Development' held at CSJM University, Kanpur on Dec. 03-04, 2019.
57. Kumar M 2020 Impact of salt stress on moong bean germination and seedling growth. Paper presented in National Seminar on 'Emerging Trends in Biotechnology and Agricultural Researches' held at Dr. MPS Group of Institutions, Agra on Jan. 24, 2020.
58. Kumar M 2020 Social dimensions and constraints in developing traditional medicines with special reference to the spices and condiments used as ethno-medicines by some tribes of Uttarakhand. Paper presented in UCOST & State Medicinal Plants Board, Dehradun sponsored National Seminar on Medicinal Plants, Ecology, Himalaya & Society held at Dev Sanskriti Vishwavidyalaya, Haridwar, Nov. 20-02, 2020
59. Kumar M. Commercial utilization of plants in India. Presented an invited lecture in National Seminar on 'Global Recession and Indian Economy' held at SNJM P.G. College, Haridwar, Dec. 26-27, 2010.
60. Kumar M 2012. Algal diversity of Kotdwar with special reference to blue-green algae. Presented an invited lecture in the National Seminar on Natural Resources and Environment held at Chinmaya Degree College, Haridwar, Oct. 13-14, 2014.

आकाशवाणी नजीबाबाद से जनहित में प्रसारित डॉ. मुकेश कुमार की प्रमुख वार्ताएं :

क्र. सं.	वार्ता का शीर्षक	प्रसारण की तिथि
1.	पोलीहॉउस तकनीकी	07-02-1996
2.	कवकों के उपयोग	05-03-1997
3.	पादपरोग और उनका जीवन पर प्रभाव	02-07-1997
4.	ग्रीन हाउस के प्रभाव	08-07-1998
5.	प्राकृतिक कृषिअनुपम उपहार ; नील हरित शैवाल-	10-02-1999
6.	कीटनाशककिसके शत्रु ; किसके मित्र?	04-03-1998
7.	पौधों से ईंधन	24-12-1999
8.	रासायनिक प्रदूषण का कृषि पर दुष्प्रभाव	24-08-2003
9.	जनसंख्या वृद्धि के दुष्परिणाम	09-05-2007
10.	पर्यावरण प्रदूषण कैसे रोकें?	01-03-2008
11.	नीलहरित शैवाल के उपयोग-	22-12-2009
12.	औषधीय पौधों का महत्व	22-06-2010
13.	विलुप्त होती वनसम्पदा-	23-08-2011
14.	जैव विविधता और-पर्यावरण	22-11-2011
15.	ग्रामीण युवाओं का पलायन कैसे रुके?	29-01-2012
16.	जनसंख्या वृद्धि और हमारा विकास (परिचर्चा)	26-12-2012
17.	बहुमुखी विकास के लिए जरूरी है शिक्षा	08-09-2012
18.	जनसंख्या वृद्धि पर नियंत्रण और ग्रामीण युवा	23-06-2012
19.	हमारी सांस्कृतिक विरासत और युवा	20-04-2013
20.	संरक्षित पर्यावरणसुरक्षित जीवन :	21-04-2014
21.	राष्ट्रीय स्वच्छता कार्यक्रम	03-11-2014
22.	भारतीय समाज और सद्भावना के स्वर	11-05-2015
23.	कोरोना के लक्षण और बचाव (कृषि जगत)	14-02-2020
24.	युवा कैसे करें लॉकडाउन का सदुपयोग (युवावाणी)	11-04-2020
25.	कृषि में पॉलीहाउस तकनीक की उपयोगिता	18-10-2000