


Curriculum Vitae

Full Name:	DR. AJAY SEMALTY			
Designation:	Assistant Professor University SWAYAM Coordinator (SPOC: NPTEL)			
Department:	Pharmaceutical Sciences			
Campus:	Srinagar/Chauras			
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Education Qualification:	M. Pharm. (Pharmaceutics), MBA (Operations Management); Ph. D., PDF Meijo University, Nagoya, Japan			
Teaching Experience:	19 Years	Research Experience:	17 Years	
Research Interest and Fields of Specialization				
<ul style="list-style-type: none"> • Natural products for drug delivery for obesity, hair loss etc. • Cyclodextrin and lipid complexes • Small angle neutron scattering (SANS), nanoparticles • OER and MOOC development • Academic Writing, Research Methodology • Learning outcome-based framework, NEP • Digital Learning/Online/ ICT pedagogy 				
Honours & Awards				
<ol style="list-style-type: none"> 1. Listed in World's top 2 % Scientist (by Stanford University research) in 2022, 2021 and 2020. 2. MOOCs in top 5 (2022 ranking): SWAYAM online courses "Academic Writing" (#3) and "Industrial Pharmacy" (#5) have been ranked in the top 5 courses in the country as per the Survey of Ministry of Education, GoI for July 2021 Cycle (https://www.ugc.ac.in/pdfnews/1033053_Letter-Online-Learning-Courses.pdf). 3. MOOCs listed in Class Central's Best Online Courses of All Time (2021 Edn.); My SWAYAM online courses, "Academic Writing" and "Industrial Pharmacy" are figured in Class Central's Best Online Courses of All Time (2021 Edn.). The ranking contains 150 courses from 100+ universities based on 170000 + learner reviews (https://www.classcentral.com/report/top-moocs-2021-edition/; https://www.classcentral.com/collection/top-free-online-courses?page=6) 4. MOOC figured in global top 30 MOOCs in 2020: Academic Writing SWAYAM online course was recognized as the top 30 MOOCs worldwide (as per PIB, 27th April press release; https://pib.gov.in/PressReleasePage.aspx?PRID=1618725). 5. Recognized for figuring #1 in exam registration for SWAYAM MOOC by Ministry of Education and sent as Observer of Ministry for SWAYAM MOOC exams to Bengaluru Centre for July 2019 cycle's exam. 6. Awarded Daiko Foundation Post-Doctoral Research Fellowship and invited by Meijo University, Nagoya, Japan, FY 2011-12. 7. Received the prestigious Research Award (a National award given in every two year to the 100 teachers for excellence in research from all over the India covering all the subjects) in Pharmacy by UGC, New Delhi for 2016-18. (UGC Notification date: 05/10/15). 8. Young Scientist Award of the year 2007 by Uttarakhand Council of Science & Technology (UCOST) 9. Academic writing MOOC ranked number one in exam registration in India 2019 & 2020. 10. Certified Microsoft Innovative Educator Master Trainer. 				
Member of Academic Institutions				
<ol style="list-style-type: none"> 1. Visiting Scientist, Faculty of Pharmacy, Meijo University Nagoya, Japan. 2. Scientific Expert, Iceland Research Foundation (IRF), Iceland 3. Expert, Ministry of Science and Technology, Italy 4. Expert Israel Science Foundation (ISF), Israel 				

<p>5. Reviewer, Elsevier Books</p> <p>6. Peer reviewer- Journals of repute of various major publishers (Springer, Elsevier, Betham, Taylor&Francis, Medknow, Kluwer etc.).</p>
<p>Membership of Scientific Organizations</p> <p>1. Member- The Asian Council of Science Editors</p> <p>2. Life Member of APTI (UA/LM/008) and IPA (UP/All/LM/083).</p> <p>3. Peer reviewer- Elsevier US</p> <p>4. Vice President-Association of Pharmaceutical Teachers of India (APTI) of Uttarakhand State branch for year 2008-13</p> <p>5. Editorial Board Member of Current Drug Discovery Technologies, International Journal of Pharmaceutical Science and Nanotechnology, Pharmacognosy Journal and Global Journal of Pharmaceutical Technology, Science alert journals.</p> <p>6. Registered Pharmacist (Reg. No. 3349; Uttarakhand Pharmacy Council).</p>
<p>Research Supervision (No. of Ph.D. Degree Awarded/Submitted/Registered)</p> <p>27 M. Pharm. Project guided.</p> <p>01 registered for M. Pharm project</p> <p>01 M. Sc. Zoology project</p> <p>01 Ph D (submitted)</p> <p>01 Ph D(registered)</p>
<p>Research Projects/ MoU undertaken</p> <p>1. Major research project, "Studying drug CD complexes using ADXRD beamline (BL-12), Indus 2" (CRS-310), by UGC-DAE CSR, Indore, Co-Principal Investigator, Rs. 13.7 Lac, 2020-23 (Ongoing).</p> <p>2. Major research project entitled "Synthesis of polymeric cyclodextrin nanoparticles: Effect of radiation" (CRS/19/RC15) granted to me by UGC-DAE CSR, Kolkata, Rs 13.7 Lac, 2019-22 (Completed).</p> <p>3. UGC-DAE CSR, Mumbai in collaboration with Bhabha Atomic Research Centre (BARC), Major research Collaborative Research Scheme Project, Mumbai, Small angle Neutron scattering study of the interaction between drug and cyclodextrins in drug-cyclodextrin complexes, Rs 12.34 Lac, Jan 2017- March 2021 (Completed).</p> <p>4. UGC SWAYAM MOOC, Course Coordinator; "Academic writing" (15 week, 40 e- modules; 4 credit course), UGC 2018-20; Course developed and available on SWAYAM; Rs 13.5 Lac, Completed.</p> <p>5. CEC SWAYAM MOOC, Course Coordinator; "Industrial Pharmacy I" (12 week, 40 e- modules; 4 credit course); CEC, 2018-20; Course developed and available on SWAYAM; launched on JULY 2019; Rs 13.5 Lac, Completed.</p> <p>6. Consultancy Project on Pharmacovigilance programme, Jai Pharma Ltd. Mumbai, a unit of Mylan Pharm. Pvt. Ltd., Logistic support, Dr Ajay Semalty and Dr Mona Semalty, 2016 September Onward.</p> <p>7. UGC Govt. of India, Major Research Project, Preparation and evaluation of effective herbal formulations for alopecia (baldness) and identification of chief constituent(s), July 1st 2015- June 30, 2018. (Rs. 10.95 Lac), Co-PI</p> <p>8. DST-SERC Govt. of India, Project entitled Phytosomes in improving hepatoprotective activity of phytoconstituents, (Co-Principal Investigator) Feb. 2008-March 2011 (Completed); (Rs. 20.15 Lac)</p> <p>9. UGC Govt. of India, Project entitled Development of value-added herbal drug delivery systems of some polyphenolic phytoconstituents, (Principal Investigator) March 2010- March 2012. (Completed); (Rs. 1.75 Lac)</p> <p>10. AICTE Govt. of India, Project entitled Phytosphospholipid complexes in improvement of bioavailability of some herbal drugs, (Principal Investigator) July 2010- July 2012. (Completed); (Rs. 10.00 Lac)</p> <p>11. Daiko Foundation Research Fellowship, Meijo University, Nagoya, Japan entitled "Exploring antidote active compounds against snake bite in traditional Indian medicinal Plants." April 2011- March 2012; >35 lac (June 2011- Sept. 2011 in Japan).</p>
<p>Administrative Experience</p> <p>1. University SWAYAM Coordinator (Since Jan. 11, 2019); www.swayamhnbgu.in</p> <p>2. SPOC-SWAYAM -NPTEL Local Chapter (LC code -2828)</p>

3. Member Secretary, University SWAYAM Board
4. Member Secretary, University E-learning Committee, 2020
5. Member Secretary, University E studio and Community Radio Committee, 2020
6. Member, IPR Policy Committee 2020-21
7. Member, Departmental Academic Integrity Panel 2020 onwards
8. Member Ph D Entrance Committee 2019
9. Member Yukti Portal Committee 2020
10. Co-ordinator - National Pharmacy Week, State Pharmacy Council Uttarakhand.

Scientific Visits Abroad/ International Collaboration

1. Three months (June 10, 2011 to Sept. 7 2011), as visiting scientist in Faculty of Pharmacy (Natural Product and Microbiology Lab) of Meijo University, Nagoya Japan in an International project.
2. Attended the Pharmaceutical Sciences World Congress in Amsterdam, The Netherlands, 22-25 April 2007 and presented research paper selected for the presentation.

Conference/Symposium/Workshop Attended during last five years

International Conference

1. "Swayam MOOCs in Pharmacy education" 21st APP Indi-African Conference, IMA auditorium, Bareilly, 30th November, 2019. (Chaired the session)
2. Lokesh Adhikari, Abhijit Saha, Mona Semalty, Ajay Semalty. Cyclodextrin Based Biocompatible Nanosystems for Improving Drug Delivery. International Conference on Recent Advances in Material Science (ICRAMS), 15-17 May 2021, Department of Physics, HNB Garhwal University Srinagar Garhwal.
3. Sukirti Dobriyal, Lokesh Adhikari, VK Aswal, Mona Semalty, Ajay Semalty, Development and Characterization of Acyclovir Nanoparticles for Improved Drug Delivery, International Conference on Material Science and Applications (ICMSAA), 25-27 November 2019, Department of Physics Chauras Campus, HNBGU Srinagar Garhwal.
4. "Swayam MOOCs in Pharmacy education" 21st APP Indi-African Conference, IMA auditorium, Bareilly, 30th November, 2019.
5. Nitin Kumar, Lokesh Adhikari, VK Aswal, Ajay Semalty, Mona Semalty, Preparation and Characterization of Naringenin Loaded Nanoparticles, International Conference On Material Science and Applications (ICMSAA), 25-27 November 2019, Department of Physics Chauras Campus, HNBGU Srinagar Garhwal.
6. Nitin Kumar, Lokesh Adhikari, VK Aswal, Ajay Semalty, Mona Semalty, Cyclodextrin Based Biocompatible Nanosystems for Improving Drug Delivery, International Conference On Material Science and Applications (ICMSAA), 25-27 November 2019, Department of Physics Chauras Campus, HNBGU Srinagar Garhwal.
7. Ajay Semalty, Mukesh Pandey, Mona Semalty, Natural macromolecules in the development of safe and effective gastroretentive floating microparticles of metformin hydrochloride, International Conference on Systems in Medicine and Biology (ICSMB 2016), Indian Institute of Technology Kharagpur, India, 4-7 January 2016.
8. Mona Semalty, Madhuri Maher, Ajay Semalty, Cyclodextrin inclusion complexes in improving solubility, dissolution and permeability of acyclovir and effect of hydrophilic excipients, International Conference on Systems in Medicine and Biology (ICSMB 2016), Indian Institute of Technology Kharagpur, India, 4-7 January 2016.
9. Ajay Semalty, Mona Semalty, Comparison of techniques to improve solubility and dissolution of poorly water soluble drugs, International Conference on Pharmaceutical Sciences, SGRRITS Patelnagar Dehradun, (14-15 Feb. 2014).
10. Ajay Semalty, Mona Semalty, Mixed hydrotropy in improving aqueous solubility and dissolution of poorly water soluble drugs, International Conference on Pharmaceutical Sciences, SGRRITS Patelnagar Dehradun, (14-15 Feb. 2014).

National Conference/workshops

11. Adhikari L, Semalty M, Naruka PS, Aswal VK, Semalty A. Binary complexes of glimepiride with cyclodextrin for improved solubility and drug delivery. 1st Annual conference of society for Himalayan Action Research and Development (SHARAD) on Recent Advances in Chemical & Nano Sciences. Department of Chemistry, Pauri Campus, HNB Garhwal University, Srinagar Garhwal. Dated 29-30 October, 2018. (Oral Presentation)
12. Adhikari L, Semalty M, Naruka PS, Aswal VK, Semalty A. Effect of different cyclodextrin in Amphotericin B-cyclodextrin binary complexes: solubility, spectral and small angle neutron scattering

- study. 1st Annual conference of society for Himalayan Action Research and Development (SHARAD) on Recent Advances in Chemical & Nano Sciences. Department of Chemistry, Pauri Campus, HNB Garhwal University, Srinagar Garhwal. Dated 29-30 October, 2018. (Oral Presentation)
13. Adhikari L, Pandey M, Kotiyal R., Semalty A, Semalty M. Preparation and evaluation of hair growth formulations of Indian ginseng (*Withania somnifera*) for alopecia 1st Annual conference of society for Himalayan Action Research and Development (SHARAD) on Recent Advances in Chemical & Nano Sciences. Department of Chemistry, Pauri Campus, HNB Garhwal University, Srinagar Garhwal. Dated 29-30 October, 2018. (Oral Presentation)
 14. Mona Semalty, Mukesh Pandey, Ajay Semalty, Preparation and evaluation of hair growth formulation of *Withania somnifera* fruits for alopecia, National conference on Recent frontiers in Chemistry (NRF 2018), Department of Chemistry, HNB Garhwal University, 27-28 April 2018.
 15. Mukesh Pandey, Mona Semalty, Ajay Semalty, Effect of geographical location on total phenol and flavonoid content and antioxidant activity, National conference on Recent frontiers in Chemistry (NRF 2018), Department of chemistry, HNB Garhwal University, 27-28 April 2018. (Presented).
 16. Mona Semalty, Ajay Semalty, Current trends and challenges in pharmaceutical sciences, National seminar, IPGA, BN College of Pharmacy, Udaipur, Rajasthan, 24-25 Sept. 2017. (Presented).
 17. Mona Semalty, Ajay Semalty, Study of Naringenin-phosphatidylcholine and naringenin-beta cyclodextrin interaction in the complexes, National Conference on Study of Matter Using Intense Radiation Sources and Under Extreme Conditions, UGC-DAE Consortium for Scientific Research (UGC-DAE CSR) University Campus, Khandwa Road, Indore 03-06 November 2016 (Presented).

Invited Lectures in FDPs/FDCs/HRDCs

18. "Journal Targeting and Avoiding Rejections in Scientific Paper Writing" in Workshop on "Scientific Paper Writing" Organized by Deptt. of Physics and Maths, Govt PG College New Tehri and sponsored by UCOST Dehradun on Feb 10, 2023.
19. "Plagiarism: Types, issues and consequences", online Faculty Induction Programme (FIP-4) from 18th January 2023 – 20th February 2023 organized by Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi; 07/02/23
20. Delivered lectures and Hands-on Training in Workshop on methodologies of uploading and offering the MOOC on the SWAYAM platform, held from 01.02.2023 to 02.02.2023 at the UGC office at ITO, New Delhi, invited by UGC as Master Trainer.
21. "SWAYAM MOOCs: Concept, Using and planning" and "MOOCs Pedagogy: Improving Learner's Engagement", short term course organized by UGC HRDC Ranchi, 31/01/23 (two lectures).
22. "Managing resources for innovation in research and planning IPR", Online Short term course organized by UGC HRDC JNV Jodhpur, 19/01/23.
23. "Concepts of Academic Writing and Nuances", workshop on "Scientific Paper Writing" at Dharmanand Uniyal Government Degree College, Narendranagar, Tehri Garhwal organized with the support of UCOST Dehradun, January 4, 2023.
24. "SWAYAM MOOCs: Concept" and "MOOCs: The need and bringing engagement", Online Faculty Induction Programme from 30 November-29 December 2022 at the UGC-Human Resource Development Centre, Kumaun University, Nainital; 29/12/22; (Two Lectures).
25. "Creating a Successful MOOC: Benchmarking SWAYAM MOOCs", Short Term Course on MOOCs and OERs organized by UGC-Human Resource Development Centre, Punjabi University, Patiala (13/12/22 to 20/12/22); 19/12/22.
26. Chalking out an Effective MOOC Proposal, workshop by Mount Carmel College, Autonomous Bengaluru; 09/12/22.
27. "Nuances of Research Article Writing" in a Five-Day National Level Online PDP on "Writing Research Articles in Mathematics & Statistics" (26.09.2022 – 30.09.2022) Jointly organized by the Department of Mathematics, Little Flower Degree College Uppal, Hyderabad, Telangana & PG and Research Department of Mathematics Auxilium College (Autonomous) Gandhi Nagar, Vellore, Tamil Nadu; 27/09/22.
28. "Analysis of academic sources, Citing and Acknowledging" One week workshop on Research Methodology, Education Department, HNB Garhwal University Srinagar Garhwal, September 25, 2022.
29. "SWAYAM MOOCs: Concept and Faculty Outlook" and "Success mantra for a successful MOOC" in

- Short Term Course in E-Content Development using ICT (21/09/22 to 27/09/22) organized by UGC-HUMAN RESOURCE DEVELOPMENT CENTRE, Ranchi University Ranchi, September 23 2022. (Two Lectures).
30. "Advanced Workshop on Academic Writing" for scientists, technical staff, project staff and PhD scholars of CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar, Gujarat from 22-26 August 2022. (16 Lectures).
 31. "SWAYAM MOOCs: The Faculty Outlook" and "Success mantra for a successful MOOC" in Two week Inter/Multidisciplinary Refresher Course in MOOCs Development and Delivery organized by UGC-HUMAN RESOURCE DEVELOPMENT CENTRE, Ranchi University Ranchi, Aug. 20 2022. (Two Lectures).
 32. Advanced One-Week Academic Writing workshop (04-08 July 2022) for the faculty members and PG students of Manikaka Topawala Institute of Nursing, Changa, Charotar University of Science & Technology (CHARUSAT), Anand, Gujrat (NAAC-A grade University). (12 Lectures).
 33. Advanced Academic Writing workshop, The upskilling programme for the scientists CSIR-Central Institute of Mining and Fuel Research (CIMFR) Dhanbad, 28/02/22 to 04/03/22. (20 Lectures).
 34. "Academic Integrity" and "Research Grant Proposal Writing", Online 7th Faculty Induction Programme: 14th June 2022 organized by UGC HRDC, Nagpur. (Two lectures)
 35. Research Grant Proposal Writing: Importance & Funding Opportunities, Faculty Induction Programme organized by UGC-HRDC Guru Jambheshwar University of Science & Technology Hisar, Haryana, June 1 2022.
 36. Research Grant Proposal Writing: Nuances, Faculty Induction Programme organized by UGC-HRDC Guru Jambheshwar University of Science & Technology Hisar, Haryana, June 1 2022.
 37. MOOC development: the Faculty Perspective" and "Developing and running an effective MOOC: The Success Mantra", Online Refresher course in ICT Applications and Soft Skills organized by UGC Human Resource Development Center, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (17th to 30th May 2022), 26/05/22. (Two lectures)
 38. Creating Microenvironment for Academics, Faculty Induction Programme from 17 May to 15 June, 2022 UGC-Human Resource Development Centre, Kumaun University, Nainital, 25/05/22.
 39. Academic Writing and Research, Interdisciplinary Refresher Course on Academic Writing and Research organized by the Teaching Learning Centre Tezpur University (An initiative under PMMMNMTT, Ministry of Education, Government of India) on 16/05/2022.
 40. "Academic Honesty and Integrity" in Online Short Term Course in Research Writing & Academic Integrity from 09-16 May 2022 at the UGC-Human Resource Development Centre, Kumaun University, Nainital, 13/05/22. (Two lectures).
 41. "Academic Writing: Things to know " as Chief Guest for the inaugural function of the Five Days Online FDP on ACADEMIC WRITING organized by the Office of Dean-R&D in association with Research and Facilities Group and Dept of Mechanical Engineering, SJEC, Mangaluru from 04-08 April 2022, 04/04/22
 42. Curriculum development and need based microenvironment, Online Short-Term Training Program on 'Curriculum Development with Special Reference to NEP-2020, FDC, HNBGU, April 07-13, 2022, 08/04/22
 43. Writing Research papers, National Workshop on Research Methodology, Publications and Ethics (RMPE 2022) organized by IQAC, GKV Haridwar sponsored by USERC, Dehradun during 25-30 March, 2022, 29/03/22
 44. 'Scientific Writing' on 26th March 2022 organized by Quantum School of Health Sciences, Quantum University, Roorkee.
 45. Nuances of academic writing: targeting journals and writing, 12 Days Online - National Workshop "Enriching Capacity Building Initiatives for Social Science Teachers In Higher Education" 14th to 28th March 2022, Department of Physical Education, University of Mumbai In collaboration with Indian Council of Social Science Research (ICSSR – WRC), MUMBAI, 14/03/22.
 46. "Creating microecosystem for higher education" and "Creating Learning Outcome Based Credit Framework" Gurudakshata Programme, 10th FIP (03/03/22 to 30/03/22) in UGC HRDC Ranchi University Ranchi on 11th March 2022. (Two lectures)
 47. Academic Integrity in Research and Publications, Scholarly writing and publishing research papers, One-week Faculty Development Program (March 9-16, 2022) organized by Faculty of Commerce and

- Management in association with Faculty of Doctoral Studies, Integral University, Lucknow, 09/03/22
48. "English for Academic Purposes in Higher Education: Challenges and solutions for non-natives" in an Indo-Canadian Virtual Conference on Expansions and Concerns: Mapping EAP For Higher Education organized by JNU, New Delhi, 08/03/22
 49. SWAYAM MOOCs: The faculty Outlook, Learners Edge 2022 organized by VMV Commerce, JMT Arts & JJP Science College Vardhman Nagpur, 07-09 March 2022, 07/03/22
 50. English in Academic Writing and Plagiarism, National Webinar on "Scientific/ Research Paper Writing" 26th Feb 2022 (Organized by Department of Microbiology, Central University of Tamilnadu), Two Lectures
 51. Managing Resources in Academics & Research, Online Short-Term Training Program on 'Resource, Time & Stress Management' (With Special Reference to NEP-2020) February 22-28, 2022., FDC, HNBSGU during February 22-28, 2022. 24/02/22
 52. Time Management, FDC, Online Short-Term Training Program on 'Resource, Time & Stress Management' (With Special Reference to NEP-2020) February 22-28, 2022. HNBSGU during February 22-28, 2022, 25/02/22
 53. "Ethics in Education and Research" and "Plagiarism" organized by Assam Don Bosco University, Guwahati Assam, 23/02/22
 54. "Creating microenvironment for Academics" and "Creating Learning Outcome-based Credit Framework", Faculty Induction Programme (21 February-25 March 2022), UGC-Human Resource Development Centre, Kumaun University, Nainital, 22/02/22, (Two Lectures)
 55. "Blended & Flipped Learning: Content creation" National e-Conference on "Blended Learning: Flexibility and Centricity to the Learners" Organized by MGM New Bombay College of Nursing, MGM Institute of Health Sciences, Navi Mumbai, 04/02/22.
 56. Faculty perspective: OER and MOOCs", and "Success mantras of a Successful MOOC development" Online RC in ICT Applications and Soft Skills organized by UGC-HRDC RTM Nagpur University on 19 and 20th January 2022, 19/01/22 (two lectures)
 57. Soft skills in Teaching and Learning, Online RC in ICT Applications and Soft Skills organized by UGC-HRDC RTM Nagpur University on 19 and 20th January 2022, 20/01/22.
 58. Making Cyber Security More Accessible, Available & Adaptable for HEIs, Sensitization Webinar on Cyber Security Empowerment of Higher Education Institutions, Organized by UGC, New Delhi, 13/01/22.
 59. "Effective Use of Open Educational Resources" and "Hands-on experience of OERs" Short-Term Course on Academic & Research Report Writing-One Week workshop organized by National College (Autonomous) Tiruchirappalli-620 001, Tamil Nadu, 08/01/22. (Two Lectures)
 60. "NEP 2020 & Innovative Teaching: Road map of Transformation", and "Preparing Academic Microenvironment for Implementing NEP-2020", Short-Term Training Program on 'Strategies for Implementation of National Education Policy 2020', FDC HNBSGU University Srinagar Garhwal December 28, 2021 to January 03, 2022. 29/12/21 & 30/12/21 (02 lectures).
 61. "Digital Learning and Adopting Changes In Pedagogy and Research" in FDP on Research Design & Methodology (22-26 Nov. 2021) IFTM University Moradabad, 26/11/21.
 62. "Selecting/ Targeting Journals for research Publications.", in 24th National e-Conference -2021 in association with Nursing Research Society of India (NRSI) on "Strengthening Nursing Scholarship through Publications" (26th and 27th November 2021) organized by Yenepoya Nursing College, Yenepoya (Deemed to be University). 26/11/21.
 63. "Faculty perspective of the development of MOOCs", & "Success Mantra for a successful MOOC", Short Term Course on MOOCs, E-Content Development & OERs in the UGC- Human Resource Development Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur on November 19, 2021, (02 lectures).
 64. "Creating microenvironment for academic and research", Faculty Induction Programme-VII (held between 11-11-2021 to 11-12-2021) at the UGC-Human Resource Development Centre, Kumaun University, Nainital on 18/11/2021.
 65. "Improving Biopharmaceutical Properties of Synthetic and Herbal Drugs in Pharmaceutical Research" at INTERNATIONAL e-CONFERENCE Natural and Novel Pharmaceutical Research (18-20 November 2021); organized by School of Pharmacy Arka Jain University, Jamshedpur and Pharmacy Department

- San Pedro College, Philippines on 19/11/2021. <https://youtu.be/R848J5KJd0E?t=14542>
66. "Nuances of Persuasive Research Paper" in 7 Day FDP on Research Methodology, Organized by S.S.S. Shasun Jain College for Women University of Madras, 15 November 2021, <https://youtu.be/0oMw1HogyD0>
 67. "How to prepare MOOC proposal", Short Term Course on MOOCs, E-Content Development & OERs (November 10 to November 16, 2021) in the UGC Human Resource Development Centre, the University of Mumbai, November 10, 2021.
 68. "Concept of MOOC: Planning to Execution" and "Success Manta for Successful MOOCs", Short-Term Course – MOOCs, E-Content Development & Open Educational Resources organized by the UGC – HRDC, Sant Gadge Baba Amravati University on 30 October 2021 (02 lectures).
 69. "Academic Integrity" 6th Faculty Induction Programmes organized by UGC- Human Resource Development Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur on 24th Oct 2021, (02 lectures).
 70. "Academic Research Writing" in the National Webinar Organized by: VPMK, Arts, Commerce and Science College Kinhavali, Tal-Shahapur, Dist.-Thane, University of Mumbai. (Maharashtra), 29/09/21.
 71. "Solid State Characterization in Pharmaceutical Research" in International Conference on Emerging role of Pharmacist in innovation, discovery and development of biological products and & Biopharmaceuticals (25-27 September, 2021) organized by Department of Pharmaceutical Sciences, Faculty of Medical Science & Health, Gurukul Kangri (Deemed to be University), Haridwar; 27 September, 2021.
 72. "Ethics and academic integrity in research and publications", and "Research grant proposal writing" STC Research Methodology organized by UGC- Human Resource Development Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, September 22, 2021 (02 lectures).
 73. "Ethics in Research" in the inaugural technical session of Five Days Online Faculty Development Program on Research Methodology in Social Science organized by
 74. Athawale College of Social Work Bhandara, Maharashtra, RTM Nagpur University, September 21, 2021.
 75. "Academic Writing", RUSA sponsored Online Faculty Induction Programme-5 organized by Human Resource Development Centre, Guru Jambheshwar University of Science & Technology, Hisar during 23.08.2021 to 25.09.2021, September 06, 2021 (02 lectures).
 76. "Digital Learning Tools for Quality Pharmacy Education", Expert Lecture, Career Point University, Kota, August 26, 2021.
 77. "Research Ethics- Academic honesty and integrity", Summer School-2021 [Theme: Research Methodology & Writing (For all subjects)], 13 August-27 August 2021, UGC-Human Resource Development Centre, Kumaun University, Nainital, August, 14, 2021 (02 Lectures).
 78. "Developing need based microenvironment for academics and research in higher education", Faculty Induction Program (FIP) conducted by UGC-Human Resource Development Centre, Kumaun University, Nainital, August, 13, 2021 (02 Lectures).
 79. "SWAYAM MOOCs and digital initiatives for effective teaching and learning" and "MOOCs: The faculty perspective", AICTE Sponsored STTP Organized by Rajarshi Shahu College of Pharmacy, Buldana, Maharashtra, August 10, 2021. (02 Lectures).
 80. "Research Grant proposal Writing", National Workshop on Research Methodology & Data Analysis, organized by the Physical education Foundation of India (PEFI) in association with Sikkim Manipal Institute of Technology, Sikkim, India, July, 31, 2021.
 81. "SWAYAM MOOCs and Industrial Pharmacy MOOC", Dr. D Y Patil Institute of Pharmaceutical Sciences and Research, Savitribai Phule Pune University-University of Pune, July 31, 2021.
 82. "Adopting changes to Pharmacy Education", AICTE sponsored STTP series 3 organized by Sanjivani College of Pharmaceutical Education and Research, Kopergaon Mumbai, June 21, 2021.
 83. "Academic writing and SWAYAM MOOCs" for University of Mosul, Iraq, SWAYAM outreach program, SWAYAM Cell, HNB Garhwal University, June 20, 2021.
 84. "Targeting quality journals for publications", E-workshop on Essential Skills for Professionals, NIT Jalandhar, June 20, 2021. https://youtu.be/V4Pt3K_uqbU
 85. "ICT based initiatives by the Ministry of Education" Yenepoya (Deemed to be University), Mangalore, June 18, 2021.

86. "Targeting journals for quality research publications", "Journal metrics in identifying quality journals", and "Author metrics in identifying the quality journals" Faculty Development Programm (FDP) on "Research Methodology And Data Analytics", organized by Uttaranchal Institute of Pharmaceutical Sciences, Uttaranchal University, Dehradun, July 16, 2021
87. "Using ICT tools and platforms for online teaching-learning", AICTE sponsored STTP series 2 organized by Sanjivani College of Pharmaceutical Education and Research, Kopergaon Mumbai, June 14, 2021.
88. Building a career in Pharmacy, Webinar Series 2021, School of Pharmacy, Arka Jain University, Jharkhand, June 13, 2021.
89. "Adopting changes to Pharmacy Education" and "Concept and preparation of Learning Outcome-based Credit framework", "Preparing for outcome based learning", AICTE sponsored STTP series 1 organized by Sanjivani College of Pharmaceutical Education and Research, Kopergaon Mumbai, June 07, 2021 (03 lectures).
90. "SWAYAM MOOCs and Industrial Pharmacy MOOC" Webinar organized by Lloyd Institute of Management and Technology- Pharm Noida, May 31, 2021.
91. National Webinar on "Planning and Writing : Research Grant Proposals", Research Cell and Entrepreneurship Development Cell , NSS College of Commerce and Economics, Tardeo, Mumbai, May 31, 2021.
92. Awareness about MOOC on Industrial Pharmacy, organized by IPGA Academic Division, May 30, 2021.
93. "SWAYAM and Pioneer online course (MOOC) in Pharmacy - Industrial Pharmacy" organized by ASBASJSM College of Pharmacy Bela, Ropar. May 26, 2021.
94. "Solid State Characterization Support for Indian Academic Researchers", International Conference on Recent Advances in Material Science (ICRAMS), 15-17 May, 2021, Department of Physics, HNB Garhwal University Srinagar Garhwal. May 17, 2021.
95. Art & Science of Academic Writing, Webinar conducted by Haryana Library Association, Karnal Rohtak, May 22, 2021. <https://youtu.be/Z59a9YIzthc>
96. "Plagiarism in Academic Integrity and tools for detection", National Workshop: Academic & research Writing, organized by ATME College of Engineering, Mysuru, Karnataka (25-31 March 2021). March 31st, 2021 (02 lectures).
97. "Targeting quality journals for research publications" & "Avoiding rejections in research publications" Two weeks Refresher Course on 'Pedagogical Techniques and Research Methodology' during March 12 to 25, 2021, FDC HNB Garhwal University Srinagar Garhwal, March 19, 2021 (02 lectures).
98. "E-content creation, OER and MOOC development", 4th Faculty Induction Programme (11/03/2012 to 10/04/2021). UGC-HRDC, NEHU, Shillong, A.P., March 19, 2021 (02 lectures).
99. "Reviewing literature and Thesis Writing", One Week Online National Interdisciplinary Workshop on Research Methodology 16 March 2021 to 22 March 2021, Organized by Faculty of Commerce, Karim City College, Jamshedpur, Jharkhand, March 17, 2021 (02 lectures).
100. "Creating Microenvironment for adaptability in Higher Education and Research" and "Concept of Learning Outcome Based Credit Framework" and "Preparing for Outcome-Based Learning", AICTE Sponsored Two Week Online Faculty Development Program (FDP) "Exploration of Nascent Pedagogical Tools for Updating Teachers in Pharmacy Education"; Organized by Lloyd Institute of Management & Technology (Pharm), Greater NOIDA on 9th March 2021 (03 Lectures); <https://youtu.be/BMXVBxxaPQY>
101. Academic Integrity Publication Standards: Impact Factor in Targeting Journals for Publications, 04 March 2021, Online Refresher Course in Economics on the theme from 01 March - 15 March 2021, UGC-Human Resource Development Centre, Kumaun University, Nainital.
102. Basics of Quality Synopsis and Thesis Writing. 05 March 2021, CRSIS&EC, A week workshop on "Research Methodology for Physical Sciences and Engineering, MD University Rohtak, Haryana. (01 Lecture)
103. Writing Results & Discussion, "Advanced Thesis Writing 07 March 2021, Pharma State Academy, workshop, 01 lecture.
104. Academic Writing: need and basic rules of academic writing, 22nd February 2021, UGC-HRDC GJ University of Science and Technology, Hisar, Faculty induction Program, Academic Writing, 02 lectures.
105. Academic writing made easy, Webinar conducted by IHRD India, Hyderabad, Feb 23, 2021 (01

Lecture).

106. Academic integrity in research and publications, UGC-HRDC, Pandit Ravishankar Shukla University (PRSU), Raipur, "GURUDAKSHATA", 23rd February 2021, 02 Lectures.
107. "Research Grant proposal Writing", 26th February 2021, UGC-HRDC Kumaun University, Nainital, 02 lectures.
108. "Advanced Thesis Writing" workshop, 28th February 2021, Pharma State Academy, 01 lecture.
109. OCW, Open Educational Resources (OER), and Open Online Courses (MOOCs) & use of social media and online library resources; UGC HRDC, Pandit Ravishankar Shukla University (PRSU), Raipur, "GURUDAKSHATA", 13th February 2021, 02 Lectures.
110. Improving biopharmaceutical properties of herbal drugs; Aushadhiya Padap Mahakumbh, Gurkul Kangri Vishvavidyalaya, Haridwar, 17th Feb. 2021, 01 Lecture
111. Research Grant Proposal need and writing, Nutritional Society of India, Nagpur Chapter, 20th February 2021, 02 lectures.
112. Academic Integrity and Writing research proposals and papers, 18-19 February 2021, UGC- Human Resource Development Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, (04 LECTURES); <https://youtu.be/X10MEmtq57o>, https://youtu.be/cY7SQE_5d5U, <https://youtu.be/liYnNoBu3Uc>; <https://youtu.be/XpbHcCNPYpo>
113. Introduction to Scientific Writing, DST SERB one day virtual workshop on Scientific Writing, Mol. Toxicology laboratory, Department of Biotechnology, Bharathiar University, Coimbatore, Tamilnadu, January 21, 2021, (Link: <chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://cdn.b-u.ac.in/seminar/2021/biotech2.pdf>)
114. "Developing need based Microenvironment in Higher Education and Research" and "Concept of Learning Outcome Based Credit Framework" and "Preparing for Outcome-Based Learning", AICTE Sponsored Two Week Online Faculty Development Program (FDP) "Exploration of Nascent Pedagogical Tools for Updating Teachers in Pharmacy Education"; Organized by Lloyd Institute of Management & Technology (Pharm), Greater NOIDA on 8th Jan. 2021 (03 Lectures); <https://youtu.be/xmXFLbHnJml>,
115. "SWAYAM MOOCs & Academic Writing", SWAYAM Cell, HNB Garhwal University (A Central University), 6th January 2021; <https://youtu.be/RtflwezqOtM>.
116. 'MOOC: SWOC Analysis & The Faculty Perspective' and 'Success Mantra for MOOC Developers', One Week Online Short Term Training, FDC HNB Garhwal University Srinagar Garhwal, December 15, 2020 (02 lectures).
117. "Outcome-based Learning in the current scenario" in Faculty Induction Programme-I (01/12/2020 to 29/12/2020), UGC-Human Resource Development Centre, Kumaun University, Nainital on 12/12/2020.
118. Lecture 1: Open Educational Resources(OER) for teaching-learning; Lecture 2: Open licenses and their use in OER creation/sharing; Lecture 3: Using & Creating educational resources for quality teaching, AICTE Sponsored Two Week Online Faculty Development Program (FDP) "Exploration of Nascent Pedagogical Tools for Updating Teachers in Pharmacy Education"; Organized by Lloyd Institute of Management & Technology (Pharm), Greater NOIDA on 09 Dec. 2020 (03 Lectures).
119. Lecture 1: MOOCs: the concept of online learning; Lecture 2: SWAYAM MOOCs and digital learning initiatives of UGC & ministry of education; Lecture 3: SWAYAM MOOCs: Faculty perspective as user and developer; AICTE Sponsored Two Week Online Faculty Development Program (FDP) "Exploration of Nascent Pedagogical Tools for Updating Teachers in Pharmacy Education"; Organized by Lloyd Institute of Management & Technology (Pharm), Greater NOIDA on 10 Dec. 2020 (03 Lectures).
120. "Academic Integrity: Concept & Scope" in Faculty Induction Programme-I (01/12/2020 to 29/12/2020), UGC-Human Resource Development Centre, Kumaun University, Nainital on 02/12/2020, (02 lectures).
121. "Developing Need-based microenvironment for higher education" in Faculty Induction Programme-I (01/12/2020 to 29/12/2020), UGC-Human Resource Development Centre, Kumaun University, Nainital on 08/12/2020.
122. Lecture 1: Planning research proposal and funding opportunities; Lecture 2: Basics of Writing an Effective Research Proposal and defending the project, Faculty Induction Programme from 23rd November to 23rd December 2020 organized by UGC- Human Resource Development Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur; 03/12/2020 (02 Lectures).

123. "Academic Integrity: theory to practical approach", "Plagiarism in research and publications: prevention and remedy", Faculty Induction Programme from 23rd November to 23rd December 2020 organized by UGC- Human Resource Development Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur; 04/12/2020 (02 Lectures).
124. "MOOCs: The faculty perspective: opportunity & Challenges"; and "Success Mantra for MOOC developers", workshop on "OERs, MOOCs, and e-content development" organized by UGC HRDC Bangalore University, Bangalore 23/11/20 (02 Lectures).
125. "Facilities of UGC-DAE CSR as Multidisciplinary Research Support for University researcher", Online National Awareness Workshop on UGC-DAE CSR Facilities, Organized by SWAYAM Cell, HNB Garhwal University (HNBGU), Srinagar Garhwal, Uttarakhand, 09-12 Nov., 2020; 12th Nov. 2020.
<https://youtu.be/Ri2eCVV1N8Q?t=4364>
126. "Journal Targeting in the Pharmaceutical & Biomedical Fields". National webinar organized by: RJSPM's College of Pharmacy, Dudulgaon, Pune, Oct 31st, 2020; <https://youtu.be/kNdtBEzkm0>
127. "Academic Writing: Concept & Planning" and "Academic Writing: Basic Rules & execution" in UGC sponsored One-month online Faculty Induction Programme-1 [September 21 to October 24, 2020] organized by Human Resource Development Centre, Guru Jambheshwar University of Science & Technology, Hisar, 12 October, 2020 (Two lectures).
128. "Developing adaptability in academic & research" in National Workshop "Education During COVID-19 and Beyond" organized by School of Pedagogical Sciences, Mahatma Gandhi University, Kerala, 29th September 2020, <https://youtu.be/GQajtW6tUvU>
129. "Research Proposal Writing" Summer School on Research and Publication Ethics by UGC-HRDC Kumaun University Nainital (26/08/20 to 08/09/2020); 05/09/2020.
130. "Developing Adaptability in Academic Research", Online Refresher Course, FDC HNB Garhwal University Srinagar Garhwal, on August 20, 2020.
131. 'Self Reliance in Research: Funded Research Projects', Online Refresher Course, FDC HNB Garhwal University Srinagar Garhwal, on August 21, 2020.
132. E- Workshop on "Research Article Writing" organized by PS Academy, 24/08/2020
133. "Plagiarism in Academic Writing" in the National Workshop "Publication Ethics: Academic Writing for Research Publication" organized by Department of Education, Assam University Silchar, Dr. S. Bhattacharjee; 26/08/20
134. "Academic Writing", organized by UGC HRDC RTMNU, Nagpur, Short Term Course on Research Methodology in Social Sciences", 200-330 pm (registered participants only; Refer <http://www.hrdcnagpur.org/>) ; 27/08/20
135. "Funding Agencies", organized by UGC HRDC RTMNU, Nagpur, Short Term Course on Research Methodology in Social Sciences", 200-330 pm; 29/08/20.
136. International e-seminar on Academic Writing: Things to Know (AWTK2020), Govt PG College, Maldevta, Dehradun, July 17.
137. "Academic Writing": One week online workshop on research methodology (14-20th July 2020), Doon University, Dehradun, July 19.
138. "Plagiarism in Academic Writing: Detection and avoiding" FDP on research methodology, N.A.S. P.G. College, Meerut, July 19.
139. "E Learning and MOOCs in Education", National webinar: "Innovations in Teaching, Learning and Evaluation In Nursing Education" organized by JSS College of Nursing, Mysore, July 10, 2020. (<https://youtu.be/fATbq-63TVg>)
140. "OER & MOOCs" Seven-day Faculty Development Program on "Pedagogical Paradigm Shift: Need of the Hour" conducted by ML & JNK Girls College, Saharanpur (27th June to 3rd July 2020) on July 1st, 2020.
141. "Tools for Online Teaching Learning" Capacity Building National Workshop organized by Vasanta College of Women, BHU; 26th June 2020.
142. 'Strategies for the Leaders to Combat Research Challenges' in Online lecture-Series on 'Academic Leadership in Higher Education during and after COVID 19 Pandemic' organised by Faculty Development Center, HNBGU, Srinagar Garhwal, during June 22-26, 2020 on June 23, 2020.
143. "The New Normal in Education" National Webinar, 24 May, 2020, organized by The Internal Quality Assurance Cell of St. Albert's College Autonomous, Ernakulam, Kerala <https://youtu.be/4TSwFC9V0SA>

144. Use of Online Resources in Teaching-Learning process: National Webinar, Organized by UKA Tarsadia University, Bardoli, Gujarat, 20 May, 2020 (<https://youtu.be/MZcDHu-yqvs>).
145. "MOOCs Planning & Designing" and "Improving Learner's engagements in MOOCs", in the one week Workshop on MOOCs, E-content Development and Open Educational Resources from 24 February to 29 February 2020, organized by UGC - Human Resource Development Centre, Jamia Milia Islamia, New Delhi, on 26 February '20,.
146. "Developing MOOCs" & "Plagiarism in Academic Writing" in the two week "RC for Life Sciences" [Dec. 09 to 21, 2019] organized by UGC-Human Resource Development Centre (Erstwhile ASC), GJ University S&T, Hisar on 20th Dec., 2019.
147. "Swayam MOOCs in Pharmacy education" 21st APP Indi-African Conference, IMA auditorium, Bareilly, 30th November, 2019.
148. Chaired Main Scientific Session, 21st APP Indi-African Conference, IMA auditorium, Bareilly, 30th November, 2019.
149. "Developing MOOCs" & "Plagiarism in Academic Writing" in the two week "RC for Life Sciences" [Dec. 09 to 21, 2019] organized by Human Resource Development Centre (Erstwhile ASC), GJ University S&T, Hisar on 20th Dec., 2019.
150. "Application of OER and MOOCs: Faculty outlook" Short Term Course on MOOCs e-content development & OER" held between 22/11/2019 to 28/11/2019 for university/college teachers. UGC-HRDC, Kumaun University, Nainital, Nov. 28, 2019.
151. "Dos and Don't s in doing and developing MOOC" Short Term Course on MOOCs e-content development & OER" held between 22/11/2019 to 28/11/2019 for university/college teachers. UGC-HRDC, Kumaun University, Nainital, Nov. 28, 2019.
152. "SWAYAM MOOCs: A Digital Learning Initiative by MHRD", in "Quality improvement and novel practices in higher education in Uttarakhand" organized by RUSA and HE Deptt. Govt. of Uttarakhand, in Doon University on 28-29th September 2019, Dehradun, Uttarakhand.
153. "Plagiarism in Academic Writing", Short Term Course in Research Methodology for university/college teachers. UGC-HRDC, Kumaun University, Nainital, Sept. 16, 2019.
154. "Using OERs for blended and flipped learning" Short Term Course in Research Methodology for university/college teachers. UGC-HRDC, Kumaun University, Nainital, Sept. 16, 2019.
155. "Things to know for Academic Writing" Workshop on Academic Writing for prospective teachers, by School of Education, PMMMNMTT, HNBGU Srinagar Garhwal, 8-10 August, 2019, 08/08/19.
156. "English and writing styles in Academic Writing" Workshop on Academic Writing for prospective teachers, by School of Education, PMMMNMTT, HNBGU Srinagar Garhwal, 8-10 August, 2019, 09/08/19.
157. "Literature review and management tools" Workshop on Academic Writing for prospective teachers, by School of Education, PMMMNMTT, HNBGU Srinagar Garhwal, 8-10 August, 2019, 09/08/19.
158. "OER and MOOCs" in the One week workshop on "MOOC and Open Educational Resources" [July 22 to 27, 2019] organized by Human Resource Development Centre (Erstwhile ASC), GJ University S&T, Hisar on 26th July, 2019
159. "Plagiarism in Academic Writing" in one week workshop held by Department of Education, HNB Garhwal University, Srinagar Garhwal, 23rd May 2019.
160. "OERs and SWAYAM MOOCs in Teaching Learning Process" in Induction/Orientation Program for the teachers of Higher Education conducted by Faculty Development Centre (FDC), HNB Garhwal University, Srinagar Garhwal (15 May-30 June, 2019), 20th May 2019.
161. "Practical approach of using OERs and SWAYAM MOOCs for blended and flipped learning" and "MOOCs Planning and Development: Faculty Perspective" in the UGC sponsored One week workshop on "MOOC, e-Content Development and Open Educational Resources" [February 04 to 09, 2019] organized by Human Resource Development Centre (Erstwhile ASC), GJ University S&T, Hisar on 8th February, 2019. [2 lectures]
162. "Writing an Effective Research Project Proposal" and "Basic rules of academic writing" on 11 December, 2018, in one week long workshop on Research Methodology; during December 10-16, 2018 conducted by Faculty Development Centre (FDC), HNB Garhwal University, Srinagar Garhwal. [2 lectures]
163. "Use of OER in research" and "Creating a MOOC: Faculty perspective" 17th October, 2018, Workshop

on "Using and Developing Open Educational Resources and MOOCs" for the teachers of Higher Education during 12-18 October, 2018 conducted by Faculty Development Centre (FDC), HNB Garhwal University, Srinagar Garhwal. [2 lectures]

164. "Open Educational Resources for Teaching and Learning", in Orientation Program for the teachers of Higher Education conducted by Faculty Development Centre (FDC), HNB Garhwal University, Srinagar Garhwal (03-30 September, 2018), 6th September 2018.
165. "Using OERs for Teaching and Learning", in Orientation Program for the teachers of Higher Education conducted by Faculty Development Centre (FDC), HNB Garhwal University, Srinagar Garhwal (03-30 September, 2018), 6th September 2018.
166. "Academic Writing", in Orientation Program for the teachers of Higher Education conducted by FDC, HNB Garhwal University, Srinagar Garhwal (03-30 September, 2018), 7th September 2018.
167. "Basic of rules of paper writing", in Orientation Program for the teachers of Higher Education conducted by FDC, HNB Garhwal University, Srinagar Garhwal (03-30 September, 2018), 7th September 2018.
168. "Open Education Resources in quality improvement of higher education", in Quality Improvement and NAAC Accreditation in Higher Education, Workshop conducted by RUSA (National higher education mission) in Doon University, Dehradun, Uttarakhand, 28th August, 2018.
169. Research: planning an execution, in National workshop on Research Methodology in Management and Social Sciences, conducted by Department of Business Management, HNB Garhwal University, Srinagar Garhwal, 27-31st May, 2018.

Workshop/ Conferences/ Courses attended (Last 5 Yrs).

170. Continuing Professional Development Programme, Antimicrobials Overview, Commonwealth Pharmacists Association, 16/02/23.
171. Continuing Professional Development Programme, Antimicrobial Stewardship in Community Pharmacy, Commonwealth Pharmacists Association, 17/02/23.
172. Continuing Professional Development Programme, AMR & Principles of Antimicrobial Stewardship, Commonwealth Pharmacists Association, 16/02/23.
173. Continuing Professional Development Programme, AMR tool kit, Commonwealth Pharmacists Association, 16/02/23.
174. Fermentation: interplay of microbes, immunity and nutrition, Organized by Department of Rural Development & Agricultural Production (RDAP) North-Eastern Hill University (NEHU), Tura Campus, Meghalaya in Association with Biotechnology Industry Research Assistance Council (BIRAC), A Government of India Enterprise, February 03-04, 2023
175. Learning Path/Trophy, Microsoft Educator Center, Master Microsoft Teams for any learning environment, 24/01/22.
176. Learning Path/Trophy, Microsoft Educator Center, OneNote teacher academy, 25/01/22.
177. Learning Path/Trophy, Microsoft Educator Center, MIE Trainer academy, 25/01/22.
178. Learning Path/Trophy, Microsoft Educator Center, Office 365 teacher academy, 03/02/22.
179. Learning Path/Trophy, Microsoft Educator Center, Get started with Office 365 and Windows, 30/01/22.
180. COVID-19 Contact Tracing for Nursing Professionals; An online course authorized by University of Houston and offered through Coursera, 12/05/2021
181. One Week Faculty Development Programme: Teacher's training on Disaster Management, Organized by National Institute of Disaster Management, Ministry of Home Affairs Govt of India, 21-25 September 2020.
182. Online National Awareness Workshop on UGC-DAE CSR Facilities, 09-11-2020 to 12-11-2020
183. Introduction to computational drug design: Theory-demo-hands on, Organized by Schrodinger and PCI, 21/09/20 to 23/10/20.
184. Summer School on Research and Publication Ethics by UGC-HRDC Kumaun University Nainital (26/08/20 to 08/09/2020). (Coordinated and attended)
185. Pedagogical Innovations and Research Methodology, RC (MD), SWAYAM ARPIT course, 01-12-2020 to 31-03-2021 exam held on June 2020
186. Attended "Capacity Building Workshop for SWAYAM Course Coordinators", NITTR Chennai, 27-29

May 2019.

187. Advanced MOOC development workshop, 15-16 October 2018, IIM Bangalore.
188. Attended "CEC orientation workshop on "Development and delivery of MOOCs for SWAYAM" conducted by CEC at Jamia Milia Mass Communication Research Centre New Delhi for approved MOOC course coordinators, 23-24 July 2018.
189. Attended "UGC orientation workshop for Course Coordinators on the development of MOOCs" conducted by UGC at UGC office New Delhi for approved MOOC course coordinators, 10th May 2018.
190. Attended: "Shodh, shiksha, sameeksha" interaction meeting; Selected among the researchers at all India level to attend an interaction meeting with Hon'ble MHRD Minister in IUCAA Pune on 1st October 2017.
191. National Workshop on "Role of Open Education Resources in Higher Education" conducted by FDC, HNB Garhwal University, Srinagar Garhwal, from 15/12/17 to 17/12/17.
192. Completed online course on OER development from Commonwealth of Learning.
193. One Week Short Term course on "Open Education Resources in Higher Education" conducted by FDC, HNB Garhwal University Srinagar Garhwal, from 04/09/17 to 09/09/17.
194. Online course "Understanding Open Educational Resources: Using Technology Enabled Learning Lounge, Commonwealth of Learning, 11/09/2017.

Conference/Symposium/Workshop Organized during last five years

1. UGC Workshop on methodologies of uploading and offering the MOOC on the SWAYAM platform, held from 01.02.2023 to 02.02.2023 at the UGC office at ITO, New Delhi, invited by UGC as Master Trainer.
2. Conducted a one-week training program "Advanced Workshop on Academic Writing" for scientists, technical staff, project staff and PhD scholars of CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar, Gujarat from 22-26 August 2022.
3. Conducted an Advanced One-Week Academic Writing workshop (04-08 July 2022) for the faculty members and PG students of Manikaka Topawala Institute of Nursing, Changa, Charotar University of Science & Technology (CHARUSAT), Anand, Gujrat (NAAC-A grade University).
4. Advanced Academic Writing workshop, The upskilling programme for the scientists CSIR-Central Institute of Mining and Fuel Research (CIMFR) Dhanbad, 28/02/22 to 04/03/22 (Organized).
5. Conducted online Training workshop "MIE Badges Training" organized by the Academic Writing/IP Team & SWAYAM Cell, HNB Garhwal University (A Central University) Srinagar Garhwal in association with JUANA TECHNOLOGIES Pvt. Ltd, Global Training Partner & Gold Partner of Microsoft, Dec. 11 and 12, 2021 (>1000 attended and 1000 got MIE certification through training).
6. "Advanced Thesis Writing, 28 Feb- 07 March 2021, Pharma State Academy, workshop,
7. Advanced certificate workshop on Systematic Review and Meta-analysis, Jul 26-30, 2021, in association with Pharma State Academy.
8. Conducted one-week Advanced certificate workshop on Thesis Writing, Feb 14-20, 2021, in association with Pharma State Academy.
9. Conducted one-week Advanced certificate workshop on MOOC development, March 12-17, 2021, in association with Pharma State Academy.
10. Conducted Advanced certificate workshop on Plagiarism, June 4-6, 2021, In association with Pharma State Academy.
11. Conducted Advanced certificate workshop on Plagiarism, June 11-13, 2021, In association with Pharma State Academy.
12. National Webinar: Academic Writing & SWAYAM MOOCs, organized by SWAYAM Cell of HNB Garhwal University (A Central University) Srinagar Garhwal, January 06, 2021. <https://youtu.be/RtflwezqOtM>
13. Online National Awareness Workshop on UGC-DAE CSR Facilities, Organized by SWAYAM Cell, HNB Garhwal University (HNBGU), Srinagar Garhwal, Uttarakhand, 09-12 Nov., 2020; <http://www.hnbgu.ac.in/sites/default/files/2020-11/csr%20workshop%20report%20final.pdf> (Organized)
14. Detection and avoiding Plagiarism in Research & Publication, organized by SWAYAM Cell, 12/09/2020, https://drive.google.com/file/d/1JcpcnLmMjksYeO9_lwDAGkpW311Q8J1h/view?usp=sharing (Organized)

15. Academic Writing Workshop: Ethiopia Chapter (SWAYAM Outreach Program), 20/08/2020. (Organized)
16. International webinar: Academic Writing: from Basic to advanced (Leaving Impact: The Uganda Chapter), 06/07/2020.
17. "Demo on Virtual Classrooms for faculty members", organized by SWAYAM Cell in association with Microsoft Team, 29 June 2020. (Organized)
18. International webinar: Academic Writing: from Basic to advanced (Leaving Impact: The Brasil Chapter), 29/06/2020. (Organized)
19. Academic Writing: From Basic to advanced (The Philippines Chapter), 21/06/2020.
20. Course coordinator, Summer School on Research and Publication Ethics by UGC-HRDC Kumaun University Nainital (26/08/20 to 08/09/2020). (Organized)
21. Using SWAYAM & SWAYAMPBABA and other e learning resource of UGC and MHRD, Online webinar organized by Teaching Learning facilitation committee in association with SWAYAM cell, May 12, 2020 (https://youtu.be/8XP0_Oo5qAg) (Organized)
22. Detection and avoiding Plagiarism in Research & Publication, organized by SWAYAM Cell, 12/09/2020, (Organized)
23. Chaired Main Scientific Session, 21st APP Indi-African Conference, IMA auditorium, Bareilly, 30th November, 2019.
24. Special Assistance, Workshop on "Using and Developing Open Educational Resources and MOOCs" for the teachers of Higher Education during 12-18 October, 2018 conducted by Faculty Development Centre (FDC), HNB Garhwal University, Srinagar Garhwal.

Some selected Publications

1. Mukesh Pandey, Priyanka Rani, Lokesh Adhikari, Mukul Gupta, Ajay Semalty, Mona Semalty, Preparation and characterization of cyclodextrin complexes of doxycycline hyclate for improved photostability in aqueous solution, **Journal of Inclusion Phenomena and Macrocyclic Chemistry**, 2022, 102, 271-78 ISSN: 1388-3127; <https://doi.org/10.1007/s10847-021-01116-z> Impact Factor: **(IF 1.925)**. <https://rdcu.be/cBw9Z>; Springer
2. Adhikari L, Kumar N, Saha A, Semalty A, Semalty M. Naringenin loaded cyclodextrin nanoparticles for improved drug delivery, **Indian Drugs**, 2022, 59(8): 82-85. ISSN: 0019-462X.
3. Panwar VS, Adhikari L, Semalty Mona, Semalty A., Drug-Cyclodextrin Complexes: Current Status and Recent Advancements, **Indian Drugs**, 2021, 59 Accepted. ISSN: 0019-462X.
4. Adhikari L, Semalty M, Semalty A. A critical study of SWAYAM MOOCs: Increasing reach and expansion. **University News**, 2021, 59 (19): 9-18. ISSN: 0566-2257.
5. Mishra H, Adhikari L, Semalty M, Semalty A. Cellulose acetate floating microspheres of metformin hydrochloride: formulation and characterization, **Indian Drugs**, 2020, 57,12, 65-69 . ISSN: 0019-462X.
6. Adhikari L, Semalty M, Naruka PS, Aswal VK, Semalty A. Binary complexes of glimepiride with β -cyclodextrin for improved solubility and drug delivery, **Indian Drugs**, 2019, 56, 3, 54-60. ISSN: 0019-462X. <https://doi.org/10.53879/id.56.03.11714>
7. Lokesh Adhikari, Rupali Kotiyal, Mukesh Pandey, Meenakshi Bharkatiya, Ajay Semalty, Mona Semalty, Effect of geographical location and type of extract on Total phenol/flavon contents and antioxidant activity of different fruits extracts of *Withania somnifera*, **Curr Drug Discov Technol.** 2020,17 (1); 92-99. ISSN: 1570-1638; PMID: 24188445. CiteScore **2.9**; DOI: 10.2174/1570163815666180807100456; Bentham Science
8. Mukesh Pandey, Lokesh Adhikari, Rupali Kotiyal, Ajay Semalty, Mona Semalty, Preparation and evaluation of hair growth formulations of Indian ginseng (*Withania somnifera*) for alopecia, **Asian Journal of Biological Sciences**, 2019, 12, 524-532. ISSN: 1996-3351; <https://doi.org/10.3923/ajbs.2019.524.532>; Science International.
9. Mona Semalty, Lokesh Adhikari, Divya Semwal, Anita Chauhan, Akash Mishra, Rupali Kotiyal and Ajay Semalty, A comprehensive review on phytochemistry and pharmacological effects of Stinging Nettle (*Urtica dioica*), **Current Traditional Medicine**, 2017, 3(3), 156-67. ISSN 2215-0846. DOI: 10.2174/2215083803666170502120028 ; SCOPUS Citescore- **0.4**; Bentham Science
10. Mona Semalty, Lokesh Adhikari, Anita Chauhan, Akash Mishra, Divya Semwal, Rupali Kotiyal, Ajay Semalty, Obesity and herbal drug research: Exploring the safer alternative and lead molecule, **Current Traditional Medicine**, 2017, 3(2), 74-92. ISSN 2215-0846. DOI: 10.2174/2215083803666170309124540; SCOPUS Citescore- **0.4**; Bentham Science
11. Madhuri Maher, Mukesh Pandey, Lokesh Adhikari, Ajay Semalty, Mona Semalty, Effect of hydrophilic excipients on cyclodextrin complexes of acyclovir in improving solubility, dissolution and permeability,

- Letters in Drug Design & Discovery**, 2016,13(8), 771-780. ISSN: 1570-1808. DOI: 10.2174/1570180813666160517161058, **Impact Factor: 1.17**; Bentham Science
12. Ajay Semalty, Cyclodextrin and phospholipid complexation in solubility and dissolution enhancement: A critical and meta-analysis, **Expert Opinion on Drug Delivery**, 2014, 11(8):1255-72. doi: 10.1517/17425247.2014.916271 ISSN: 1742-5247, **Impact Factor: 8.121**; Taylor&Francis
 13. A. Semalty, YS Tanwar, M Semalty, Preparation and characterization of cyclodextrin inclusion complex of naringenin and critical comparison with phospholipid complexation for improving solubility and dissolution, **Journal of Thermal Analysis and Calorimetry** 2014, 115, 3:2471-2478. ISSN: 1388-6150; DOI 10.1007/s10973-013-3463-y. **Impact Factor: 4.755**. <https://rdcu.be/cBHFp>; Springer
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3. Ajay Semalty, Quick Review: Industrial Pharmacy-I, 2021, ISBN: 9789391910242 Pharma Med Press, Hyderabad, India; https://bspublications.net/book_detail.php?bid=1581
4. Ajay Semalty, Industrial Pharmacy-I (Hindi), 2022, ISBN: 9789391910389, Pharma Med Press, Hyderabad, India; https://bspublications.net/book_detail.php?bid=1582.
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Massive Open Online Courses (MOOCs) with record enrolments (more than 84000 learners across 150 countries)

- Course Coordinator; "**Academic writing**" SWAYAM MOOC (15 week, 40 e- modules; 4 credit course); https://swayam.gov.in/nd2_ugc19_ge03/preview (July Oct. 2019 cycle; 12532 learners) & https://swayam.gov.in/nd2_cec20_ma04/preview (January- July 2020 Semester; 7546 learners); https://swayam.gov.in/nd2_cec20_ge29/preview, July Oct. 2020 cycle; 8645 learners); https://onlinecourses.swayam2.ac.in/cec21_ge18/preview January- July 2021 Semester; 6647 learners); https://onlinecourses.swayam2.ac.in/cec21_ge32/preview (July-Oct. 2021; 11047);

https://onlinecourses.swyam2.ac.in/cec22_ge01/preview (Jan-July 2022; 8078);
https://onlinecourses.swyam2.ac.in/cec22_ge44/preview (July-Oct. 2022; 10020); **Total 64515 learners**

- Course Coordinator; “**Industrial Pharmacy I**” (12 week, 40 e- modules; 4 credit course); approved by CEC on April 2018; Course developed; https://swyam.gov.in/nd2_cec19_ge01/preview; (July Oct. 2019 cycle; 2299 learners); https://swyam.gov.in/nd2_cec20_lb05/preview, (July Oct. 2020 cycle; 5070 learners); https://onlinecourses.swyam2.ac.in/cec21_lb04/preview (July-Oct. 2021; 4210); https://onlinecourses.swyam2.ac.in/cec22_lb02/preview (Jan- July 2022; 3772); https://onlinecourses.swyam2.ac.in/cec22_lb04/preview (July-Oct. 2022; 3992); **Total 19343 learners.**
- Developed 4 modules (Module no. 37-40; <http://tiny.cc/ARPIT>) for ARPIT course: Pedagogical Innovations and Research Methodology by UGC HRDC GJ University of Science and Technology Hisar. (https://swyam.gov.in/nd2_arp19_ap72/preview)
- 02 Courses for SWAYSMPRABHA channel (30 hrs video lectures prepared in 2020-21):
 - Novel Drug Delivery systems: <http://tiny.cc/SEMALTYNDDS>
 - Pharmaceutical Production Technologies: <http://tiny.cc/SEMALTYPPT>; <https://drive.google.com/drive/u/2/folders/1xWa5pliUlImaxjHUT-kDkUIFxszyDoe>
- **Online Courses (other than SWAYAM)- 22 Courses**
(<https://pharmastate.academy/profile/ajaysemalty/>)
- Course and links
 - Detection and Avoiding Plagiarism in Research and Publications (<https://pharmastate.academy/courses/detection-avoiding-plagiarism-research-publication/>)
Advanced Certificate Course on Plagiarism (<https://pharmastate.academy/courses/advanced-certificate-course-plagiarism-on-demand/>)
 - "MOOC: Massive Open Online Course Proposal Development" (<https://pharmastate.academy/courses/mooc-online-course-proposal-development/>)
 - Systematic Review & Meta-analysis, <https://pharmastate.academy/courses/systematic-review-and-meta-analysis-dr-ajay-semalty/>
 - Systematic Review & Meta Analysis – (Advanced), <https://pharmastate.academy/courses/systematic-review-meta-analysis-advanced/>
 - Advanced Course on Thesis Writing, <https://pharmastate.academy/courses/advanced-thesis-writing/>
 - Avoiding Rejections In Publications, <https://pharmastate.academy/courses/avoiding-rejections-in-publications/>
 - Genuine Book Writing, <https://pharmastate.academy/courses/genuine-book-writing-2/>
 - Targeting Journals for Publications ; <https://pharmastate.academy/courses/targeting-journals-for-publication/>
 - Research Article Writing ; <https://pharmastate.academy/courses/research-article-writing/>
 - Research Grant Proposal Writing, <https://pharmastate.academy/courses/research-grant-proposal-writing/>
 - TABLETS: Concepts & Manufacturing in Pharma , <https://pharmastate.academy/courses/tablets-manufacturing-in-pharma/>
 - Literature Search & Reference Management in Academic Writing , <https://pharmastate.academy/courses/literature-search-reference-managements/>
 - Online Teaching and Learning , <https://pharmastate.academy/courses/online-teaching-and-learning/>
 - Microsoft Office Tools for Making Academic Writing Easy and Effective, <https://pharmastate.academy/courses/microsoft-office-tools-for-academic-writing/>
 - Effective Academic Writing – The Art and Science, <https://pharmastate.academy/courses/effective-academic-writing-the-art-and-science/>
 - Online Teaching and Learning, <https://www.udemy.com/course/online-teaching-learning/>

Total Number of Research Publications:

Publications

Papers	-	90 (39 International, 51 National)
Scientific Abstracts	-	85 (15 International, 70 National)
Chapter in Book	-	02 (01 International, 01 National)
Books	-	11
Patents	-	03 (02 granted, 1 in final stage)
E content development	-	more than 200 hrs
MOOCs (SWAYAM online courses)-		02 (by UGC and CEC) > 50 hrs of video lectures
E -Modules for ARPIT Course	-	04
SwayamPrabha emodules	-	30 hrs (50 lectures; two courses))
Total citations	-	>2300
H index	-	27
https://scholar.google.co.in/citations?user=rsy5X4UAAAAJ&hl=en		
I10 Index	-	36
Total Impact	-	> 150

MOOCs (SWAYAM online course)- **02** (Academic Writing; Industrial Pharmacy-I)

(developed and run; by UGC and CEC; PIONEER IN UNIVERSITY & PHARMACY; run in July session with more than 35000 learners from 95 countries. RANKED NUMBER #1 MOOC OF COUNTRY and ranked in TOP 30 MOOCs WORLDWIDE: available at www.swayam.gov.in)

Online Courses (other than SWAYAM)- 22 Courses

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