**UGC-Human Resource Development Centre**

**Himachal Pradesh University, Shimla-5**

**2-Week RC on Bio-Sciences(RC-343)**

w.e.f.- 06.03.2023to 18.03.2023

Programme Team: Prof. D.R. Thakur, Director

Prof. Kiran Rekha, Professor, HRDC

Dr. J. S. Saklani, Assistant Director

Dr. Dhiraj Singh Rawat & Dr. Harinder Singh Banyal, Course Coordinator

Timing of Technical Sessions:

Warming-up Session: (i) 9.45 a.m. to 10.00 a.m. (Yoga & Meditation)

(ii) 10.00 a.m. to 10.30 a.m. (Reflection of previous day)

I 10.30 a.m. to 12:00 noon II 12.00 noon to 01.30 p.m.

III 02.00 p.m. to 03.30 p.m. IV 03.30 p.m. to 05.00 p.m.

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| **Date & Day** | **Session** | **Topic** | **Resource Person** |
| 06.03.2023 (Monday) | I | Inauguration Session | Prof. T.N. Lakhan Pal, Retd. Professor,  Department of Bio-Sciences, HPU, Shimla |
| II | Overview of Programme | Prof. D.R. Thakur, Director, UGC-HRDC, H.P. University Shimla |
| III | Setting the Tone | Prof. Kiran Rekha, Professor, HRDC, HPU |
| IV | Breaking the Ice and Committee formulation | Dr. J. S. Saklani, Assistant Director, HRDC, H.P. University, Shimla |
| 07.03.2023  (Tuesday) | I | Faunal Diversity of trans-himalayan region of India | Dr. Avtar Kaur Sidhu, Scientist E, ZSI, Solan  [avtarkaur2000@gmail.com](mailto:avtarkaur2000@gmail.com) |
| II | Importance of wetlands and their conservation in India | Dr. Sanjeev Kumar (Retd), Joint Director, ZSI, Jodhpur  [mayapuridelhi1961@gmail.com](mailto:mayapuridelhi1961@gmail.com) |
| III | Application of Bio-fungicides in forestry : approaches and practices | Dr. Ashwani Tapwal, Scientist F, HFRI, Shimla.  [ashwanitapwal@gmail.com](mailto:ashwanitapwal@gmail.com) |
| IV | Video Link & Feedback | |
| 08.03.2023 (Wednesday) | I | Therapeutic Horticulture | Dr. Jaspreet Kaur, PU, Chandigarh  [jaspreet.sembi@pu.ac.in](mailto:jaspreet.sembi@pu.ac.in) |
| II | Molecular taxonomy of fishes | Prof. R.K Negi, Delhi University  [negigurukul@gmail.com](mailto:negigurukul@gmail.com) |
| III | Honey bees and their seasonal management | Prof. Sunil Thakur, CUHP, Dhaarmshala  [sunilibes@gmail.com](mailto:sunilibes@gmail.com) |
| IV | Instruction for Seminar Presentation | Dr. J. S. Saklani, Assistant Director, HRDC, H.P. University, Shimla |
| 09.03.2023 (Thursday) | I | Polyporoid Mushrooms\_Role of morphology in taxonomy | Dr. Avneet Pal Singh, Punjabi University, Patiala  [avneet@pbi.ac.in](mailto:avneet@pbi.ac.in) |
| II | Ecofriendly management of insect pests of NW Himalayan forests | Dr. Pawan Rana, Scientist F, HFRI, Shimla  [kumarphfri@gmail.com](mailto:kumarphfri@gmail.com) |
| III | Impacts of industrial pollutants an aquatic fauna of Punjab. | Dr. Onkar Singh, Punjabi University Patiala  [singhonkar@yahoo.com](mailto:singhonkar@yahoo.com) |
| IV | Importance of Yoga | Dr. Arpita Negi, Dept. of Yoga, HPUPUH |
| 10.03.2023  (Friday) | I | Guide to the Identification of common fish species | Dr. Yogesh Kumar Rawal. P.U Chandigarh  [ykrawal@gmail.com](mailto:ykraueal@gmail.com) |
| II | Plants and traditional knowledge from Trans-Himalayan cold desert of Ladakh | Dr. Vaneet Jishtu  Scientist E, HFRI- Shimla  [vjishtuv@gmail.com](mailto:vjishtuv@gmail.com) |
| III | A Perspective on Desert Ecosystem of Rajasthan & Gujarat with Special Reference to Ichthyofaunal Diversity. | Dr. H.S. Banyal, Dept. of Bio-Sciences, HPU, Course Coordinator |
| IV | Individual presentations (Observer) | Dr. Dhiraj Singh Rawat, Course Coordinator |
| 11.03.2023  (Saturday) | I | Research Project formulation- Key Guidelines | Dr. B.R. Thakur, Dept. of Geography, H.P. University Shimla |
| II | Environment degradation and Health | Prof. Jagbir Kirti, Punjabi Univ, Patiala  [prjagbir2005@gmail.com](mailto:prjagbir2005@gmail.com) |
| III | Biodiversity & Conservation | Dr. Mohinder Singh Thakur, Dept. of Bio-Sciences, HPU |
| IV | Individual presentations (Observer) | Dr. Meena Kumari, Dept. of Bio-Sciences, HPU |
| 13.03.2023 (Monday) | I | Climate Change and Biodiversity | Prof. H.C. Sharma, Former Vice-Chancellor, UHF, Nauni, Solan  [hcsh19@gmail.com](mailto:hcsh19@gmail.com) |
| II | Taxonomy: Principles and applications | Dr. Navneet Singh Gill, Scientist-E, ZSI, HQ, Kolkata  [Nsgill007@gmail.com](mailto:Nsgill007@gmail.com) |
| III | Current Advancements in Plant Sciences | Dr. Vikas Mangal, Senior Scientist, CPRI, Shimla  [Vikas90bharatpur@gmail.com](mailto:Vikas90bharatpur@gmail.com) |
| IV | Individual presentations (Observer) | Dr. H.S. Banyal, Dept. of Bio-Sciences, HPU, Course Coordinator |
| 14.03.2023 (Tuesday) | I | Wonderful World of Birds | Dr. M.L. Thakur, State Project Co-ordinator, H.P. Biodiversity Board, Shimla |
| II | New Perspectives in Animal Health and Livestock Production | Dr. Rakesh Thakur, HPKV, College of  Veterinary and Animal Sciences  [drthpau@gmail.com](mailto:drthpau@gmail.com) |
| III | Individual presentations (Observer) | Dr. H.S. Banyal, Dept.of Bio-Sciences, HPU, Course Coordinator |
| IV | Video link & Feedback | |
| 15.03.2023 (Wednesday) | I | Use of geological Innovation to mitigate the problems | Prof. R.C. Sobti, Former Vice-Chancellor, PU, Chandigarh.  [rcsobti@pu.ac.in](mailto:rcsobti@pu.ac.in) |
| II | Conservation and use of Plant Genitive resources for food and agriculture | Dr. Mohar Singh, Director, ICAR-NBPGR. Shimla  [mohar.singh2@icar.gov.in](mailto:mohar.singh2@icar.gov.in) |
| III | MCQ Preparation | Dr. Dhiraj Singh Rawat and  Dr. H.S. Banyal, Course Coordinator |
| IV | Individual presentations (Observer) | Dr. Rakesh Kumar Negi, Dept. of Bio-Sciences, HPU |
| 16.03.2023 (Thursday) | I | Insect collection & preservation | Dr. P.C. Pathania, Scientist E, ZSI, Solan  [pathaniapc@yahoo.co.in](mailto:pathaniapc@yahoo.co.in) |
| II | Developing Resilience to climate change in crop plants | Prof. Sanjiv Thakur, Central University of Punjab  [sanjeevpuchd@gmail.com](mailto:sanjeevpuchd@gmail.com) |
| III | Second Green Revolution in India-Issues and Challenges | Prof. D.R. Thakur, Director, UGC-HRDC, H.P. University Shimla |
| IV | Individual presentations (Observer) | Prof. Kiran Rekha, Professor, HRDC, H.P. University, Shimla |
| 17.03.2023 (Friday) | I | Academic Integrity and Plagiarism | Prof. Manu Sood, Dept. of Computer Science, HPU |
| II | Marine Biodiversity & Conservation | Dr. Anil Mohpatra, Scientist E, ZSI, Orissa |
| III | Hidden Talent | Dr. Dhiraj Singh Rawat and  Dr. H.S. Banyal, Course Coordinator |
| IV | Time for MCQ Test | |
| 18.03.2023 (Saturday) | I | Observer cum Evaluator-MCQ Test | Dr. Vijay Chaudhary, UILS, HPU, Shimla. |
| II | Evidences of climate change in Himalaya & its impact on Vegetation | Dr. Amit Chawla, Senior Scientist, IHBT, Palampur.  [amitchawla21@gmail.com](mailto:amitchawla21@gmail.com) |
| III & IV | Valedictory Session | Chief Guest: Prof. Duni Chand, Dean Faculty of Life Sciences, H.P. University Shimla  [dunichand\_2000@yahoo.com](mailto:dunichand_2000@yahoo.com) |