**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, Solanavtarkaur2000@gmail.com |
| II | Importance of wetlands and their conservation in India  | Dr. Sanjeev Kumar (Retd), Joint Director, ZSI, Jodhpurmayapuridelhi1961@gmail.com |
| III | Application of Bio-fungicides in forestry : approaches and practices  | Dr. Ashwani Tapwal, Scientist F, HFRI, Shimla.ashwanitapwal@gmail.com |
| IV | Video Link & Feedback |
| 08.03.2023 (Wednesday) | I | Therapeutic Horticulture  | Dr. Jaspreet Kaur, PU, Chandigarhjaspreet.sembi@pu.ac.in |
| II | Molecular taxonomy of fishes  | Prof. R.K Negi, Delhi Universitynegigurukul@gmail.com |
| III | Honey bees and their seasonal management  | Prof. Sunil Thakur, CUHP, Dhaarmshala 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, Patialaavneet@pbi.ac.in  |
| II | Ecofriendly management of insect pests of NW Himalayan forests  | Dr. Pawan Rana, Scientist F, HFRI, Shimlakumarphfri@gmail.com |
|  III | Impacts of industrial pollutants an aquatic fauna of Punjab. | Dr. Onkar Singh, Punjabi University Patialasinghonkar@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 Chandigarhykrawal@gmail.com |
| II | Plants and traditional knowledge from Trans-Himalayan cold desert of Ladakh | Dr. Vaneet JishtuScientist E, HFRI- Shimlavjishtuv@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, Patialaprjagbir2005@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, Solanhcsh19@gmail.com |
| II | Taxonomy: Principles and applications | Dr. Navneet Singh Gill, Scientist-E, ZSI, HQ, KolkataNsgill007@gmail.com  |
| III | Current Advancements in Plant Sciences  | Dr. Vikas Mangal, Senior Scientist, CPRI, ShimlaVikas90bharatpur@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 |
| 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 |
| II | Conservation and use of Plant Genitive resources for food and agriculture  | Dr. Mohar Singh, Director, ICAR-NBPGR. Shimlamohar.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, Solanpathaniapc@yahoo.co.in |
| II  | Developing Resilience to climate change in crop plants  | Prof. Sanjiv Thakur, Central University of Punjabsanjeevpuchd@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 |
| III & IV | Valedictory Session | Chief Guest: Prof. Duni Chand, Dean Faculty of Life Sciences, H.P. University Shimladunichand\_2000@yahoo.com  |