**UGC-Human Resource Development Centre**

**Himachal Pradesh University, Shimla-5**

(NAAC Accredited ‘A’ Grade University)

**2-week Refresher Course in Earth Sciences (RC-324)**

w.e.f.- 14.12.2020 to 26.12.2020

Programme Team: Prof. D. D. Sharma, Director

Prof. Kiran Rekha, Professor HRDC

 Dr. B.R. Thakur, Course Coordinator

Dr. J. S. Saklani, Assistant Director

Timings of Online Sessions:

Yoga session: 9:40 am to 10:00am

Report Reading/Discussion on Thought of the day: 10.00 a.m. to 10.30 a.m.

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.

**General Instruction:** The link for self-study e- content, Assessment and feedback form will be sent through registered e-mail and WhatsApp group.

**14.12.2020 (Monday)` `**

**Chief Guest:** Prof. K.N. Singh, Vice Chancellor, Uttar Pradesh Rajashri Tandon Open University Allahabad

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| Date & Day | Session | Topic | Resource Person |
| 14.12.2020(Monday) | I | Inauguration Session | Prof. K.N. Singh, Vice Chancellor, Uttar Pradesh Rajashri Tandon Open University Allahabad |
| II | Environmental Awareness Indigenous Knowledge. | Prof. H. N. Misra, Emeritus Professor, University of Allahabad, UP |
| III | Overview about RC | Prof. D.D.Sharma Chairman, Department of Geography & Director, HRDC, Shimla |
| IV | Breaking of Ice and Committee Formation | Prof. Kiran Rekha Professor, HRDC, Shimla  |
| 15.12.2020 (Tuesday) | I  | Research Methodology and Open Source- software Concept, Data and Software . | Prof. Biplab Biswas, Department of Geography University of Burdwan, West Bengal |
| II | On Some Aspects of Drought Assessment and Monitoring | Prof. Amit G Dhorde, Department of Geography University of Pune, . |
| III & IV | Use of Google in Teaching & Research in the era of covid-19 | Dr. Seema Chaudhary, Assistant Professor, Department of Geography, HPU, Shimla |
| 16.12.2020 Wednesday) | I | Applications of Geospatial Technologies in Water Resources and Its Sustainable Development | Dr. Balamurugan Guru, Department of Earth Sciences, Central University of TamilNadu, Thiruvarur  |
| II | Climate Change: Past, Present and Future | Prof. V.S. Kale, A/6 Manmohan Society, Karvenagar, Pune. |
| III | Food Security in India | Prof. M.S. Jaglan, Dept. of Geography, Kurukshetra University, Kurukshetra,  |
| IV | Guidelines for Individual Presentations | Prof. Kiran Rekha, Professor, HRDC, Shimla |
|  17.12.2020 (Thursday) | I  | Geography of Wellbeing and Happiness | Prof. Kaushal K Shrama, CSRD, JNU, New Delhi |
| II | Dimensions of Research: Some Issues  | Prof. Kabir Mohan Sethi, Dept. of Geography, Utkal University, Bhubaneshwar, Odisha  |
|  III | Access to e-Content: An Initiative of MHRD and UGC | Sh. Prem Chand, Librarian, Indian Institute of Advanced Studies, Shimla. |
| IV | Sharing of e-study material through Video links and assignments |
| 8.12.2020 (Friday) | I | Impact of climate variability on the hydrological regime of Jammu, Kashmir & Ladakh regions | Prof. A.S. Jasrotia, Department of RS&GIS University of Jammu, Jammu UT |
| II | Critical Cartography | Prof. Sarfaraz Alam, Dept. of Geography, Banaras Hindu University, Varanasi U.P. |
| III | Evaluation of Teacher’s participants Presentation | Prof. S.P. Kaushik, Dept. of Geography, Kurukshetra University, Kurukshetra |
| IV | Sharing of e-study material through Video links and assignments |
| 19.12.2020 (Saturday) | I | Urbanisation and Its Impact on Hydrological Regime in National capital Region of Delhi  | Prof. S.C. Rai, Department of Geography, University of Delhi, New Delhi  |
| II | Assessing the Impact of Climate Change on Health with Special Reference to Urban Areas and Mega Cities of India | Prof. D.K. Nayak, Department of Geography, North Eastern Hill University, Shillong. |
| III  | Relevance of Naturalism in 21st Century | Prof. Aravind A Mulimani, Department of Geography, State University of Karnataka, Dharwad, Karnataka |
| IV | Participants Presentation Evaluation | Dr. P.D. Bhardwaj, Retd, Department of Geography, HPU Shimla. House No. HIG 128 Housing Board colony Hamirpur.  |
| 21.12.2020 (Monday) | I | Monitoring of glaciers and associated hazards in the Himalaya-Karakoram: Potentials and Challenges  | Dr. Rakesh Bambri, Post-Doctoral Researcher, Department of Geography, South Asia Institute, Heidelberg University, Germany |
| II | Environmental Issues in 21st Century: Perspective of Environmental Scientists | Panel of Experts from Participants |
| III | Our Responses to Natural hazards: Hype, Hope and Human Life | Prof. Ravi S Singh, Department of Geography, BHU, Varanasi, UP |
| IV | Observer in Individual Presentations.  | Prof. KS Sohal, Retd, Department of Geography, Panjabi University, Patiala  |
|  22.12.2020 (Tuesday) | I | Coal and Petroleum-Formation and Their Uses | Dr. Om Prakash, Department of Geology, Kurukshetra University, Kurukshetra Haryana. |
| II | A Board View (Earth, the only home of Human Kind) A Case for Environmental Protection.  | Prof. Bhupinder Singh Marh, Retd, Dept of Geography, Mohalla Sapri, P.O And District Chamba, H.P |
| III | Individual Presentations | Dr. Vishal Warpa, Room No. 4, Block 15 J, Discipline of Geography, School of Sciences, IGNOU, Maidan Garhi, New Delhi.  |
| IV | Geography in 21st Century: Building Synergies in Research for Public Policy | Panel of Experts from Participants |
|  23.12.2020 Wednesday) | I  | Smart Cities: Concept and Significance | Prof. DD Sharma, Chairman Department of Geography & Director, HRDC-HP University, Shimla  |
| II | India’s Northeast: Environmental Issues | Prof. AK Bhagwati, Department of Geography, Guhati University, Assam |
| III | Observer Individual Presentations | Dr. Manisha Tripathi, Department of Geography, Kumaun University, Nainital  |
|  IV | Sharing of e-study material through Video links and assignments |
|  24.12.2020 (Thursday) | I | Web Geoportals: Open Access Geospatial Resources, data and Services for Research | Prof. Seema Jalan, Department of Geography, MLS University Udaipur, Rajasthan |
| II | Prioritization of Watersheds for Conservation Planning | Dr. BR Thakur, Department of Geography, HP University, Shimla |
| III | Socio Ecological Water Sustainability  | Prof. Milap Punia, Chairperson, CSRD, JNU, New Delhi 110067. |
| IV | Relevance of Earth Sciences in 21st Century: Indian Perspective | Panel of Experts from Participants: |
| 25.12.2020 (Friday) | I | Vulnerability and Adaptation to Disaster: Concept and Measurements | Prof. Subhakanta Mohapatra, Discipline of Geography, School of Sciences, IGNOU, Delhi. Room No. 9, block 15J New Delhi. |
| II | Applications of Lyo-Physical importance in regional and urban Planning  | Sh. K. Surjeet Singh, #217, Former State Town Planner, Govt. of Haryana, Panchkula Haryana |
| III | Hidden Talent  | By the participants |
| IV | Capacity building through yoga & Meditation | Dr. Santosh Kumari, HPUBS, H.P. University Shimla |
| 26.12.2020 (Saturday) | I | Recapitulation and MCQ Test | BR Thakur, Department of Geography, HP University, Shimla |
| II | A Glimpse into Environmental Scenario Through Earth’s History | Prof. N.N. Dogra, Emeritus Professor, Dept. of Geology, Kurukshetra University, Kurukshetranndogra@gmail.com  |
| III & IV | Valedictory Address  | Prof. Prithvish Nag,Former Vice Chancellor, Mahatma Gandhi Kashi Vidyapith, U.P. and Former Surveyor General of Indiaprithvish.nag@gmail.com  |