

**UGC – Human Resource Development Centre  
Himachal Pradesh University, Shimla-5**

**3-week Refresher Course on Chemistry  
w.e.f. 23.11.2015 to 12.12.2015**

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| Programme Team | <ol style="list-style-type: none"> <li>1. Prof. (Mrs.) Kiran Rekha, Director</li> <li>2. Prof. (Mrs.) Neeraj Sharma, Coordinator</li> <li>3. Dr. (Ms.) Anita Sharma, Assistant Director</li> </ol> |
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| Sr. No. | Resource Person   | Topic   |
|---------|---|---|
| 1.      | Prof. S. K. Mehta, Chem. Deptt., Panjab University, Chandigarh                    | Nanotechnology- I   |
| 2.      | Prof. B. C. Verma, Former Professor, Chem. Deptt. , H.P.U., Shimla-5              | Environmental Pollution/Chemical Aspects  |
| 3.      | Prof. Susheel Kansal, Dr. S. S. Bhatnagar UICET., Panjab University, Chandigarh   | Pulp & Paper Production and Characteristics of waste water and its treatment  |
| 4.      | Prof. B. C. Verma, Former Professor, Chem. Deptt. , H.P.University, Shimla        | Analytical Chemistry and its domain   |
| 5.      | Prof. Susheel Kansal, Dr. S. S. Bhatnagar UICET., Panjab University, Chandigarh   | Writing and publishing a research paper in high impact factor Journal   |
| 6.      |   |   |
| 7.      | Prof. Amalendu Pal, Chem. Deptt., Kurukshetra University, Kurukshetra             | Search Green Solvents for the Future  |
| 8.      | Prof. P.K. Ahluwalia, Former Professor Physics Deptt. , H.P. University, Shimla   | Queen of flat land of crystals/Graphene   |
| 9.      | Dr. Baljit Singh, Chem. Deptt. , H.P. University, Shimla                          | Controlled drug delivery<br>Pharmacokinetics & Pharmacodynamics   |
| 10.     | Prof. N. K. Gupta, Former Professor Law Deptt., , H.P. University, Shimla         | Patenting in India  |
| 11.     | Prof. Ravi Shanker, Chem. Deptt, IIT ,New Delhi                                   | Scope of coordination chemistry in material synthesis<br>Inorganic Polymers   |
| 12.     | Prof. (Mrs.) Neeraj Sharma, Coordinator, Chem. Deptt. , H.P. University, Shimla   | Group formation & Topic distribution for Projects   |
| 13.     | Prof. S.C. Chaudhry, Former Professor, Chem. Deptt. , H.P. University, Shimla     | Need of non-aqueous solvents<br>Reasoning in Chemistry  |
| 14.     | Prof. N.S. Negi, Dept. of Physics, H.P. University, Shimla.                       | Practical work in USIC (XRD, SEM & Ultracentrifuge )  |
| 15.     | Dr. A. K. Bhatt, Biotech. Deptt. , H.P. University, Shimla                        | Microbes in Environment   |
| 16.     | Dr. Suvarcha Chauhan, Chem. Dept. H.P. University, Shimla                         | A Scientific approach to Pranayam   |
| 17.     | Sh. Parvez Mohd., USIC, H.P. University, Shimla.                                  | Practical work in USIC (VSM, AFM & AAS)   |
| 18.     | Prof. Sunil Sharma, Chem. Deptt., University of Delhi, Delhi                      | Glycerol based amphiphilic architecture for biomedical applications<br>Design & development of kinase inhibitors for cancer treatment |
| 19.     | Prof. N. K. Gupta, Law Deptt., H.P. University, Shimla.                           | Copyright and plagiarism  |
| 20.     | Prof. T.C. Bhalla, Former Prof. Dept. of biotechnology , H.P. University, Shimla. | Biocatalysis in Chemical Synthesis  |

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| 21. | Prof. Mahavir Singh, Vice-Chancellor, IEC University, Baddi, Solan                 | Journey from Bulk to Nano Role of magnetic nanoparticles in various applications                        |
|     |  | Mossbauer spectroscopy & its applications   |
| 22. | Dr. S. B. Kalia, Chem. Deptt. , H.P. University, Shimla.                           | Practical work in (Chemistry instrumentation lab (DSA)/ (IR, UV-vis spectrometers & Cyclic Voltammeter) |
| 23. | Prof. Pawan Sharma, Chem. Deptt., Kurukshetra University, Kurukshetra              | NMR spectroscopy-I  |
|     |  | NMR spectroscopy-II   |
| 24. | Prof. A. P. Mishra, Chem. Deptt. , H.S.Gour Central University, Sagar(M.P.)-470003 | Bioinorganic Chemistry/Metals in biological systems   |
|     |  | Medicinal Inorganic Chemistry   |
| 25. | Prof. (Mrs.) Neeraj Sharma, Chem. Deptt. H. P. University, Shimla                  | Can technology replace teachers : A Discussion  |
| 26. | Prof. A. P. Mishra, Chem. Deptt. , H.S.Gour Central University, Sagar(M.P.)-470003 | ESR Spectroscopy  |
| 27. | Prof. S.S. Kanwar, Dept. of biotechnology, H. P. University, Shimla                | Lipases : Tools for catalysis in organic / water restricted media                                       |
| 28. | Prof. (Mrs.) Neeraj Sharma, Chem. Deptt. HPU, Shimla                               | Participants presentations  |
| 29. | Prof. P.S. Kalsi, Former Professor, Chem. Deptt. PAU, Ludhiana                     | Stereo Chemistry in relation to stereo selectivity  |
|     |  | How to teach Chemistry in 21 <sup>st</sup> Century-II   |
| 30. | Prof. P.S. Kalsi, Former Professor, Chem. Deptt., PAU, Ludhiana                    | IR Spectroscopy-I   |
|     |  | IR Spectroscopy-II  |
| 31. | Dr. Wamik Azmi, Dept. of Biotech., H.P. University, Shimla                         | Therapeutic Enzymes   |
| 32. | Prof. P.K. Ahluwalia, Former Prof. Physics Dept. H. P. University, Shimla          | Ab Initio Calculations-Fundamentals & Implementations/ A Bird's Eyeview                                 |