**BRIEF OF EACH DOMAIN SPECIFIC TRAINING UNDER NATIONAL HYDROLOGY PROJECT(NHP)**

**(For FY2021-2022)**

**1.Groundwater Assessment Methodology**

**(20-09-2021 to 24-09-2021)**

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| **Objective** | To provide understanding of Basic hydrogeology and assessment of ground water resources to the officials from central/ state govt., academicians and NGO’s |
| **Course Contents** | * Basic Hydrogeology with emphasis on movement of groundwater
* Ground Water Resources Estimation: Historical Review
* GEC 2015: Groundwater Assessment Methodology
* Groundwater Resources Estimation as a Resource Management Tool: International Practices.
* INDIA\_GEC: A Web-based Automation Tool for Groundwater Resources Estimation
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| **Methodology** | On-line lecture includes presentation of case studies. |
| **Target Group** | Officers of Central & State Government/academicians/NGO’s |
| **Duration**  | 5 days  |
| **Course Director** | Dr. Anadi Gayen,Scientist-D, RGNGWTRI, Raipur&Dr. AVSS Anand , Scientist-D, RGNGWTRI, Raipur |

 **2. Geophysical techniques in Ground WaterExploration**

**(13-12-2021 to 17-12-2021)**

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| **Objective** | To provide exposure of various Geophysical technique used in Hydrogeological study, plotting and interpretation of VES and Application of Geophysical Techniques in artificial recharge to groundwaterto the officials from central/ state govt., academicians and NGO’s |
| **Course Contents** | * Role of Geophysical Techniques in Ground Water
* Plotting and interpretation of Vertical Electrical Survey
* VES data interpretation using software.
* Application of geophysical well logging in water bearing zones identification & Interpretation of Logging data.
* Application of Geophysical Techniques in Artificial Recharge to groundwater
* Preparation of Geophysical Report
* Discussion of Field problem
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| **Methodology** | On-line lecture includes presentation of case studies. |
| **Target Group** | Officers of Central & State Government/ academicians/ NGO’s |
| **Duration**  | 5 days  |
| **Course Director** | Sri K.C. Mondal,Scientist-B, RGNGWTRI, Raipur |

**3. Artificial recharge techniques of groundwater**

**(24-01-2022 to 28-01-2022)**

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| **Objective** | To provide exposure to various design and implementation techniques in respect of artificial recharge to groundwater to the officials from central/ state govt., academicians and NGO’s |
| **Course Contents** | * Groundwater scenario of India and stage of groundwater development
* need for artificial recharge to groundwater system
* section of site for implementation of Artificial recharge techniques
* Various methods of AR techniques
* Design procedure and implementation methodology
* Cost estimate
* Preparation of DPR
* Impact Assessment
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| **Methodology** | On-line lecture includes presentation of case studies and sample calculation etc. |
| **Target Group** | Officers of Central & State Government/academicians/NGO’s |
| **Duration**  | 5 days  |
| **Course Director** | Shri M. SivaKumar, Scientist-D, RGNGWTRI, Raipur |