**DEPARTMENT OF WATER RESOURCES DEVELOPMENT & MANAGEMENT**

**INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

**Training program on**

**DISASTER MANAGEMENT (FLOODS AND DROUGHTS)**

**Venue: Department of WRD&M, IIT, Roorkee**

**Course outlie:** To understand the damage from floods and droughts and arrangement from government to reduce its impacts. Role of irrigation in minimising the impact of disaster. Structural and non-structural measures for approaching flood management. Forecasting of flood and drought management. Standard Operational Procedures on Disaster Management and various Guidelines on different types of disasters including some important national initiatives and international agreements / frameworks. Study on various indices on floods and drought management.

**TIME TABLE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **14:00-15:00** | **15:00-16:00** | **16:00-17:00** | **17:00-18:00** |
| Day-1 | On line Registration, Inaugural Function (AP/DK/KV), Course orientation and introduction to various facilities of  IIT Roorkee (AP/DK/KV) | L1 | L2 | L1/T1 |
| Day-2 | L3 | L4 | T2 | L2/T2 |
| Day-3 | L6 | L7 | Group Discussion | Filling of Online Response Form & Valedictory Function |

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| **Lecture No.** | **Topics** |
| **1.** | Introduction to Disaster management related to floods and droughts. |
| **2.** | Methods of drought analysis |
| **3.** | Flood forecasting and warning network in India. |
| **4.** | Institutional and policy framework related to disaster management. |
| **5.** | Climate Change and its impact on flood and drought |
| **6.** | Case Studies-I on various past events on floods and drought disaster |
| **7.** | Case Studies-II on various past events on floods and drought disaster |
| **Tutorial No.** |  |
| **1.** | Practical training/demonstration of Case Studies-I : Hands on Training |
| **2.** | Practical training/demonstration of Case Studies-II : Hands on Training |

**(Prof. Deepak Khare)**

**Course Coordinator**