PREFACE

Proper planning, detailed investigations and adequate formulation of a project are essential for successful construction of a water resources development project and for its continued and sustainable operation. Remote Sensing and GIS techniques have to be effectively used to replace, complement and supplement ground data collection in various facets of different kinds of water resources projects. In the years to come, Satellite Remote Sensing supplemented with GIS has a vital role to play in quantifying hydrologic parameters and in data collection and transmission to facilitate rapid analysis of facets of water resources. It is therefore, high time that water resources personnel become aware and get mobilised to apply these techniques for efficient water resources development and management.

Keeping in view the importance of Remote Sensing and GIS in water resources development, National Institute of Hydrology, Roorkee is organising a five days training course on "Applications of Remote Sensing and GIS Applications in Water Resources Management" from March 08 to March 12, 2010 under HP-II at NIH, Roorkee. During the course, principles of remote sensing and GIS along with their applications in reservoir sedimentation, flood, rainfall runoff, soil erosion, ground water etc. will be covered. Also use of GIS in Decision Support System (DSS) will be covered in brief. The knowledge imparted during the Course would be useful for development and customization of DSS (Planning). It is hoped that there would be fruitful discussions and dialogue during this training course. The experience of faculty members and participants will be assimilated and this would improve the application of remote sensing and GIS techniques in water resources sector.

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