

National Water Academy, Pune

Daily Session Plan for Training Program on

Application of Remote Sensing & Geographical Information System in Water Resources Sector

Duration : 1 Week : 22nd – 26th Feb 2016

<i>Session I : 1000-1115</i>	<i>Tea Break: 1115-1145</i>	<i>Session II : 1145-1300</i>
<i>Lunch Break: 1300-1415</i>		
<i>Session III : 1415-1530</i>	<i>Tea Break: 1530-1600</i>	<i>Session IV : 1600-1730</i>

Day & Date	Session	Topic	Faculty
22 nd Feb 16 Day-1 Monday	9:30-10:00	Inaugural Session	NWA Faculty
	I	GIS Basic Concepts, Map Projections and Coordinate Systems	MR
	II	Remote Sensing: Satellites and Sensors	SDR
	III	Application of GPS in Water Resources Sector	MSB
	IV	-do-	MSB
23 rd Feb 16 Day-2 Tuesday	I	Demonstration of Bhuvan - Practical case study of monitoring or Irrigation Project (Shivna Takli Irrigation Project): Functionality, Digitization, Extraction of Information, etc.	MR
	II	Application of RS & GIS for Water Resource Assessment and Management including Topography, River Network, LU&LC, Groundwater, etc. using India-WRIS Platform	MR
	III	Introduction to HEC-HMS and its applications in Water Resources Sector	SM
	IV	Hands on session	SM
24 th Feb 16 Day-3 Wednesday	I	Introduction to Q-GIS with Handson	PK
	II	Extraction of canals, roads and Linear features from CARTOSAT data using Q-GIS	PK
	III	Assessment of Percentage of Physical Process & Comparing the Field Truth with Image – Hands on	PK
	IV	Acquisition and Processing of DEM	PK
25 th Feb 16 Day-4 Thursday	I	Flood Management by Structural and Non-structural Measures	SK
	II	-do-	SK
	III	Introduction to HEC-RAS and its applications in Water Resources Sector	SK
	IV	Application of Digital Image Processing in GIS and Application of ERDAS-Imagine	AKK
26 th Feb 16 Day-5 Friday	I	Flood Modeling in Arc-GIS, case study of PCMC	SVG
	II	-do-	SVG
	III	Use of Remote Sensing for River Morphological Studies	SDR
	IV	Feedback and Valedictory Session	NWA Faculty
Day 6 and 7 : Saturday and Sunday : Weekend Off			

Overall Coordinator – Shri Manish Rathore, Deputy Director(SM), NWA, Pune

Faculty

RS	Shri Rajeev Singhal, Director, NWA Pune
SK	Shri Sunil Kumar, Director, NWA Pune
PK	Shri Pradeep Kumar, Director, NWA
SM	Shri Sidhartha Mitra, Deputy Director, NWA Pune
MR	Shri Manish Rathore, Deputy Director, NWA Pune
SDR	Shri SD Ranade, Scientist 'D', CWPRS, Pune
MSB	Shri M. Selva Balan CRO, CWPRS, Pune
SVG	Shri Sagar Vishwas Gawade
AKK	Shri Ajay Kumar Kadam