

**Four Days Training Course on**

**HYDROLOGICAL INVESTIGATIONS FOR  
CONSERVATION AND MANAGEMENT OF LAKES**

**(January 15-18, 2013)**

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## National Institute of Hydrology

Four Days Training Course on  
**HYDROLOGICAL INVESTIGATIONS FOR  
CONSERVATION AND MANAGEMENT OF LAKES**  
(January 15-18, 2013)

### RESOURCE PERSONS

1. **Er. R. D. Singh**, Director, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee-247667 (Uttarakhand), E-mail: rdsingh@nih.ernet.in
2. **Dr. Sharad Jain**, Scientist-F & Head, Water Resources Systems Division, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: skj@nih.ernet.in
3. **Dr. N. C. Ghosh**, Scientist-F & Head, Ground Water Hydrology Division, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: ncg@nih.ernet.in
4. **Dr. C. K. Jain**, Scientist-F & Head, Environmental Hydrology Division, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: ckj\_1959@yahoo.co.in
5. **Er. C. P. Kumar**, Scientist-F & Head, Hydrological Investigations Division, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: cpk@nih.ernet.in
6. **Dr. Arun Kumar**, Professor, AHEC, Indian Institute of Technology, Roorkee- 247 667 (Uttarakhand), E-mail: aheciitr.ak@gmail.com
7. **Dr. Sanjay Jain**, Scientist-F, Water Resources Systems Division, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: sjain@nih.ernet.in
8. **Dr. Sudhir Kumar**, Scientist-F, Hydrological Investigations Division, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: skumar@nih.ernet.in
9. **Dr. M. K. Goel**, Scientist-F, Water Resources Systems Division, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: mkg@nih.ernet.in
10. **Dr. S. D. Khobragade**, Scientist-E1, Hydrological Investigations Division, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: suhas@nih.ernet.in
11. **Dr. A. R. Senthil Kumar**, Scientist-E1, Surface Water Hydrology Division, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: arsk@nih.ernet.in
12. **Dr. S. P. Rai**, Scientist-E1, Hydrological Investigations Division, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: spr@nih.ernet.in
13. **Dr. M. S. Rao**, Scientist-E1, Hydrological Investigations Division, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee- 247667 (Uttarakhand), E-mail: somesh@nih.ernet.in

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(15-18 January, 2013 at Roorkee)**

**TRAINING SCHEDULE**

Date & Day	Time	Topic	Faculty
DAY -1 15 January, 2013 Tuesday	0900-1000 Hrs	<b>REGISTRATION</b>	
	1000-1100 Hrs	<b>INAUGURAL FUNCTION</b>	
	1100-1130 Hrs	<b>INAUGURAL TEA</b>	
	1130-1230 Hrs	<i>Water Resources: Indian Scenarios</i>	Er. R. D. Singh
	1230-1330 Hrs	<i>Introduction to lakes and lake processes</i>	Dr. S. D. Khobragade
	1330-1430 Hrs	<b>LUNCH</b>	
	1430-1530 Hrs	<i>Assessment of Groundwater Potential</i>	Er. C. P. Kumar
	1530-1545 Hrs	<b>GROUP PHOTO SESSION</b>	
	1545-1600 Hrs	<b>SESSION TEA</b>	
	1600-1700 Hrs	<i>Water Balance of Reservoirs</i>	Dr. Sharad K. Jain
1700-1800 Hrs	<i>Visit to Water Quality Lab.</i>	Dr. C. K. Jain	
DAY -2 16 January, 2013 Wednesday	0900-1000 Hrs	<i>Hydro-geological aspects of lakes and lake-aquifer interaction</i>	Dr. Sudhir Kumar
	1000-1015Hrs	<b>VIDEO SESSION</b>	
	1015-1115 Hrs	<i>Lake water quality: monitoring and assessment</i>	Dr. C. K. Jain
	1115-1130 Hrs	<b>SESSION TEA</b>	
	1130-1230 Hrs	<i>Introduction to isotopes and isotope applications to lake studies</i>	Dr. M. S. Rao
	1230-1330 Hrs	<i>Visit to RS &amp; GIS Lab</i>	Dr. Sanjay K. Jain
	1330-1430 Hrs	<b>LUNCH</b>	
	1430-1530 Hrs	<i>Remote sensing and GIS applications to lake studies</i>	Dr. Sanjay K. Jain
	1530-1600 Hrs	<b>VIDEO SESSION &amp; SESSION TEA</b>	
	1600-1700 Hrs	<i>Tutorial- 1(Evapoaration)</i>	Dr. S. D. Khobragade
1700-1800 Hrs	<i>Visit to Nuclear Hydrology Lab.</i>	Dr. M. S. Rao	
DAY-3 17 January, 2013 Thursday	0900-1000 Hrs	<i>Case study of Nainital Lake</i>	Dr. S. P. Rai
	1000-1100 Hrs	<i>Water quality modelling of a lake</i>	Dr. N. C. Ghosh
	1100-1130 Hrs	<b>SESSION TEA AND LAKE QUIZ</b>	
	1130-1230 Hrs	<i>Case study of Mansar Lake</i>	Dr. S. P. Rai
	1230-1315 Hrs	<b>LUNCH</b>	
	1330-1800 Hrs	<b>FIELD VISIT</b>	
DAY-4 18 January, 2013 Friday	0900-1000 Hrs	<i>Conservation and management of lakes</i>	Dr. S. D. Khobragade
	1000-1100 Hrs	<i>Tutorial 2(Water balance)</i>	Dr. S. K. Jain/Dr. M. K. Goel
	1100 -1115 Hrs	<b>SESSION TEA</b>	
	1115-1215Hrs	<i>Sedimentation in Lakes and Reservoirs</i>	Dr. A. R. Senthil Kumar
	1215-1230 Hrs	<b>VIDEO SESSION</b>	
	1230-1330 Hrs	<i>Case Study of Dal Lake:</i>	Dr. Arun Kumar
	1330-1430 Hrs	<b>LUNCH</b>	
	1430-1530 Hrs	<i>Case study of Sukhna Lake</i>	Dr. S. D. Khobragade
	1530-1630 Hrs	<b>FEED BACK &amp; DISCUSSION SESSION</b>	
1630-1830 Hrs	<b>VALEDICTORY FUNCTION &amp; VALEDICTORY TEA</b>		