

**Central Water Commission
National Water Academy**

**Module Details for Induction Training Program (ITP)
for Central Water Engineering Group 'A' Probationary Officers
(32 Weeks are excluding Saturday)**

MODULE DETAILS AND DURATION

#	Section	Module Details and Duration		Wks	Dates
I	A	Orientation to perspectives in Water Resources Sector		1.0	28 Mar-1 Apr
II	B	Module on Human Resources Management (HRM)		5.0	05 Apr -08 May 22
	B1	• Office Administration and Procedures	1.0 Wk		04-08 Apr 22
	B2	• Works Management	0.6 Wk		11-13 April 2022
	B3	• Financial Administration including Procurement	1.0 Wk		18-22 April 2022
	B3 D	• Building Competencies in Personnel Excellence (AoL) (HRM)	0.6 Wk		24-26 April 2022
B3 A	• Workshop on Communication Skills	0.6 Wk	27-29 April 2022		
III	C	Module on River Management (RM)		6.5	02 May- 17 Jun 22
	C1	• Hydrometry & Techniques of Hydrological Data Processing and Validation using soft tools including Water Quality	1.0 WK		02-06 May 2022
	B3.C	• Outbound Training program at Garudmacchi (HRM) (3 days)	0.6 Wk		07-10 May 2022
	C2	• River Morphology and Coastal Erosion	0.6 Wk		11-13 May 2022
	C3	• Water Quality & Flood Forecasting & Flood Management	1.0 Wk		16-20 May 2022
	C4	• Flood Forecasting & Flood Management	1.0 Wk		23-27 May 2022
	PR	• Introduction of Project Work tools (NASTRAN/FLAC 3D - for analysis of different structures of water resources projects including hydropower project; Mike Flood - for Flood Forecasting; HEC-HMS,HEC-RAS,SWAT - either on ArcGIS or QGIS used as basin planning / management tool)	0.4 Wk		30-31 May 2022
		• Introduction to Modelling Tools	0.6 Wk		01-03 June 2022
	C5	• Preparation of Detailed Project Report, Survey & Investigation and Planning for Water Resources Projects	1.0 Wk		06-10 June 2022
C6	• Field Attachment for HQ/WQ Observation (CWC Division)	1.0 Wk	13-17 June 2022		

#	Section	Module Details and Duration	Wks	Dates
IV	D	Module on Water Planning and Projects (WP&P)	6.0	20 Jun-29 Jul 22
	D1	• Water Governance	0.5 Wk	20-21 June 2022
	B3 B	• Ethics in Public Governance (at IOC, Panchagani) (04 days)	0.8 Wk	22-25 June 2022
	D2	• Basin Planning and Management; Reservoir Operation	1 Wk	27 June – 1 July 2022
	D3	• Irrigation Planning and Water Management including FV to Rahuri	0.6 Wk	04-06 July 2022
	D3 (F)	• Visit to Mahatma Phule Krishi Vidyapeeth, Rahuri (3 days)	0.6 Wk	07-09 July 2022
	D4	• Project Appraisal and Monitoring	1.0 Wk	11-15 July 2022
	A1	HRM Module Assessment (0900-1000 Hrs)		18 July 2022
	D5	• Environmental, Economic and Social Aspects of Water Resources Projects & Construction and Contract Management	0.4 Wk	18-19 July 2022
	D5(F)	• Visit to Upper Vaitarna Dam, Nashik including Waghad Project (4 days)	0.8 Wk	20-23 July 2022
	D6	• Application of Remote Sensing and Geographical Information System in Water Resources Projects	1.0 Wk	25-29 July 2022
V	E	Module on Design and Research (D&R)	7.0	01 Aug-16 Sept 22
	A2	RM Module Assessment (0900-1000 Hrs)		01 Aug 2022
	E1	• Basic Sciences	0.4 Wk	01-02 Aug 2022
	E1 (F)	• Visit to Jain Hills Irrigation, Jalgaon (4 days)	0.8 Wk	03-06 Aug 2022
	E2	• Hydrology and related software application	1.0 Wk	08-12 Aug 2022
	E3	• Analysis and Design of Gravity Dams	1.0 Wk	15-19 Aug 2022
	A3	WPP Module Assessment (0900-1000 Hrs)		22 Aug 2022
	E4	• Analysis and Design of Embankment Dams	1.0 Wk	22-26 Aug 2022
	E5	• Hydel Civil Design	1.0 Wk	29 Aug -02 Sept 22
	E6	• Design of Weirs, Barrages & canals	1.0 Wk	05-09 Sept 22
	E7	• Design of Hydro-mechanical Equipment Gates	1.0 Wk	12-16 Sept 22
	E8	• Dam Safety and Instrumentation	0.6 Wk	19-21 Sept 22
	E8(F)	• Visit to Koyna Hydroelectric Project (3 days)	0.6 Wk	22-24 Sept 22
	A4	D&R Module Assessment (0900-1000 Hrs)		03 Oct 2022
VI	PR	Project Work with thesis (NASTRAN/FLAC 3D - for analysis of different structures of water resources projects including hydropower project; Mike Flood - for Flood Forecasting; HEC-HMS,HEC-RAS,SWAT - either on ArcGIS or QGIS used as basin planning / management tool)	2.0	26 Sept -06 Oct 22
VII	PI	Personal Interview, Feedback and Valedictory	0.5	07 Oct 2022
VIII	BD	Bharat Darshan Tour	4.0	10 Oct -04 Nov 22
Total Weeks			32	

Note: Swachhta Shramdaan Activities- At least two hours every 2 weeks

OTHER ACTIVITIES

1	Yoga & Pranayam Sessions (27 Sessions) (Monday to Saturday) excluding Gazzatte Holidays (0630 -0730 Hrs)	11 May - 11 June 2022
2	Swimming Sessions (3 Batches) 2 for Gents and 1 for Ladies 20 sessions for each batch (Evening after class)	60 Sessions
3	Billiards (20 Sessions * 2 batches)	40 Sessions
4	Trekking	