



**INTEGRATED TRAINING MODULE
UNDER ICZMP WITH
GUJARAT PERSPECTIVE**



*14-21 July 2014, IIT Kharagpur, India
(Third Batch)*

DAY - 1

14 July, 2014 (Monday)	
09:30 - 10:00	Registration & Interaction with Faculty
10:00 - 10:15	Tea/Coffee
10:15 - 11:15	Geological Processes & Coastal Geomorphology - Prof. P.K. Bhaskaran, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
11:15 - 12:30	Importance of Inter-tidal zone in Gujarat - Prof. P.K. Bhaskaran, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
12:30 - 14:15	Lunch Break
14:15 - 15:15	Introduction to Water Waves - Prof. T. Sahoo, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
15:15 - 16:15	Introduction to coastal processes - Prof. T. Sahoo, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
16:15 - 16:30	Tea/Coffee
16:30 - 17:30	EEZ of India & Gujarat - Prof. K.D. Raju, Rajiv Gandhi School of Intellectual Property Law, IIT Kharagpur



DAY - 2



15 July, 2014 (Tuesday)

09:15 - 10:15	Physical processes in coastal areas and Estuaries - Prof. P.K. Bhaskaran, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
10:15 - 11:15	Physical processes in coastal areas and Estuaries - Prof. P.K. Bhaskaran, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
11:15 - 11:30	Tea/Coffee
11:30 - 12:30	Physical processes in coastal areas and Estuaries - Prof. P.K. Bhaskaran, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
12:30 - 14:15	Lunch Break
14:15 - 15:15	EEZ of India & Gujarat - Prof. K.D. Raju, Rajiv Gandhi School of Intellectual Property Law, IIT Kharagpur
15:15 - 16:15	CRZ Mechanism of functioning coastal zone authorities - Prof. K.D. Raju, Rajiv Gandhi School of Intellectual Property Law, IIT Kharagpur
16:15 - 16:30	Tea/Coffee
16:30 - 17:30	Environmental Protection Law: Wetlands & Pollution Laws/Rules - Prof. K.D. Raju, Rajiv Gandhi School of Intellectual Property Law, IIT Kharagpur



DAY - 3



16 July, 2014 (Wednesday)	
09:15 - 10:15	CRZ classification - Prof. K.D. Raju, Rajiv Gandhi School of Intellectual Property Law, IIT Kharagpur
10:15 - 11:15	CRZ classification - Prof. K.D. Raju, Rajiv Gandhi School of Intellectual Property Law, IIT Kharagpur
11:15 - 11:30	Tea/Coffee
11:30 - 12:30	Coastal & Estuaries Fisheries Management - Prof. C.K. Mukherjee, Agricultural & Food Engineering, IIT Kharagpur
12:30 - 14:15	Lunch Break
14:15 - 15:15	Coastal hazards: Storm surge - Prof. J. Bhattacharjee, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
15:15 - 16:15	Coastal hazards: Tsunami - Prof. J. Bhattacharjee, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
16:15 - 16:30	Tea/Coffee
16:30 - 17:30	Remote Sensing - Prof. Mihir K. Dash, CORAL, IIT Kharagpur



DAY - 4



17 July, 2014 (Thursday)	
09:15 - 10:15	Coastal & Estuaries Fisheries Management - Prof. C.K. Mukherjee, Agricultural & Food Engineering, IIT Kharagpur
10:15 - 11:15	Coastal & Estuaries Fisheries Management - Prof. C.K. Mukherjee, Agricultural & Food Engineering, IIT Kharagpur
11:15 - 11:30	Tea/Coffee
11:30 - 12:30	Remote Sensing - Prof. Mihir K. Dash, CORAL, IIT Kharagpur
12:30 - 14:15	Lunch Break
14:15 - 15:15	Tutorial - Prof. P.K. Bhaskaran, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
15:15 - 16:15	Coastal & Estuaries Fisheries Management - Prof. C.K. Mukherjee, Agricultural & Food Engineering, IIT Kharagpur
16:15 - 16:30	Tea/Coffee
16:30 - 17:30	Remote Sensing - Prof. Mihir K. Dash, CORAL, IIT Kharagpur



DAY - 5



18 July, 2014 (Friday)	
09:15 - 10:15	Coastal hazards: Marine & Coastal Pollution - Prof. J. Bhattacharjee, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
10:15 - 11:15	Coastal hazards: Oil spill - Prof. J. Bhattacharjee, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
11:15 - 11:30	Tea/Coffee
11:30 - 12:30	CZM: an overview with w.r.t. India and Gujarat - Prof. M.D. Behera, CORAL, IIT Kharagpur
12:30 - 14:15	Lunch Break
14:15 - 15:15	Coastal Processes: Silt Curtain - Prof. T. Sahoo, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
15:15 - 16:15	Coastal Zone Management - Prof. T. Sahoo, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
16:15 - 16:30	Tea/Coffee
16:30 - 17:30	Tutorial - Prof. P.K. Bhaskaran, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur



DAY - 6



19 July, 2014 (Saturday)	
09:15 - 10:15	Coastal Processes: Coastal Structure & Armour Units - Prof. T. Sahoo, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
10:15 - 11:15	Coastal Processes: Breakwaters - Prof. T. Sahoo, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
11:15 - 11:30	Tea/Coffee
11:30 - 12:30	CZM: an overview with w.r.t. India and Gujarat - Prof. M.D. Behera, CORAL, IIT Kharagpur
12:30 - 14:15	Lunch Break
14:15 - 15:15	GIS & DSS as tools for ICZM - Prof. M.D. Behera, CORAL, IIT Kharagpur
15:15 - 16:15	Coral Reefs impact and monitoring - Prof. Mihir K. Dash, CORAL, IIT Kharagpur
16:15 - 16:30	Tea/Coffee
16:30 - 17:30	Mangrove monitoring - Prof. Mihir K. Dash, CORAL, IIT Kharagpur



DAY - 7



21 July, 2014 (Monday)

09:15 - 10:15	LULC Change, Coastal Biodiversity and Assessment - Prof. M.D. Behera, CORAL, IIT Kharagpur
10:15 - 11:15	Techniques for biodiversity assessment - Prof. M.D. Behera, CORAL, IIT Kharagpur
11:15 - 11:30	Tea/Coffee
11:30 - 12:30	Mangrove & Coral Reefs - Prof. J. Bhattacharjee, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
12:30 - 14:15	Lunch Break
14:15 - 15:15	Integrated Coastal Zone Management (ICZM) - Prof. J. Bhattacharjee, Department of Ocean Engineering & Naval Architecture, IIT Kharagpur
15:15 - 16:15	Bio-physical and physico-chemical monitoring of coastal and estuarine waters - Prof. M.D. Behera, CORAL, IIT Kharagpur
16:15 - 16:30	Tea/Coffee
16:30 - 17:30	Valedictory Session