

ONLINE INDUCTION TRAINING PROGRAMME TO NEWLY APPOINTED ASSISTANT ENGINEERS OF IRRIGATION DEPARTMENT

			<u>Program Schedule</u>	
Date	Time	Title	Details	Resource person
17-08-2021	1.00pm-1.30pm	Inaugural Session	Shri. Roshy Augustine, Hon. Minister for Water Resources	
	1.30pm -2.30pm	Special Session	Special Session by Dr.V.P.Joy (IAS), Chief Secretary, Government of Kerala	
	7.00pm -7.30pm	Special Session	Qualities of a Professional Engineer	<i>Er. E. Sreedharan, The Metro Man (Recorded message)</i>
	7.30pm -9.00pm	State of the art in Project Management	Sharing strategies and techniques of successful practices in Project Management	Sri.Jose P Philip, National Vice President, Indian Institute of Welding, Kolkata
18-08-2021	6.30pm -7.30pm	Overview of Kerala Irrigation Department	Overview, Vission, Mission, Organogram, Different wings & major activities	<i>Er. Alex Varghese, Chief Engineer (Irrigation & Administration)</i>
	7.30pm -8.30pm	Overview of Irrigation Design and Research Board (IDRB)	Overview, Vission, Mission, Organogram, Different wings & major activities	<i>Er.Biju D, Chief Engineer, IDRB</i>

Date	Time	Title	Details	Resource person
24-08-2021	6.30pm-8.00pm	Planning & Execution of Major Irrigation structures	Planning of Major Irrigation structures, Types of irrigation structures, Dams and appurtenant structures, Coastal protection & River protection measures, Challenges Faced, Operation & maintenance, Site management etc.	<i>Er.Binu Baby, Executive Engineer, Irrigation Division, Alappuzha</i>
	8.00pm -9.30pm	Planning & Execution of Minor Irrigation structures	Planning of Minor Irrigation structures, Types of Minor Irrigation structures, Challenges faced, Operation & maintenance, Site management etc	<i>Er.Susheela R, Executive Engineer, MI Division, Kottayam</i>
25-08-2021	5.30pm-7.30pm	Planning of Sustainable Coastal protection strategies	General Coastal processes, Existing coastal protection methods, Sustainable Coastal protection strategies, Coastal data etc	<i>Dr.Joseph Mathew, ADB Consultant</i>
	7.30pm-9.00pm	Overview of Project Wings (Project I & II)	Projects I & II - Overview, Major structures, Salient features, Canal distribution systems	<i>Er.Sandheep V, Executive Engineer Karapuzha Irrigation Project Division, Kalpetta, Wayanad & Er.Balasankar K, Superintending Engineer, Project Circle, Piravom</i>
26-08-2021	6.30pm-8.30pm	Engineering Investigations and Design of Hydraulic Structures	Investigation for various hydraulic structures, Design aspects of hydraulic structures etc	<i>Er.Shamsudheen K H, Chief Engineer (Retd), Irrigation Department</i>
27-08-2021	6.30pm-7.30pm	Applications of Hydrology in Irrigation	Topography of Kerala, geological characteristics, Water Potential of Kerala- (Surface water & Ground water), 44 rivers of Kerala - peculiarities, Hydrology related activities under NHP, WRIS, Data collection, Utilization, Analysis	<i>Er.Sandhya S G, Joint Director, Hydrology & Investigation, IDRB</i>
	7.30pm-8.30pm			<i>Er.Shibu George, Assistant Executive Engineer, Hydrology Division, Thrissur</i>

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28-08-2021	9.00am-11.00am	Catch a Glimpse of KERI	Overview and Activities undertaken by KERI, Various facilities etc	<i>Er.Suprabha N, Director, KERI</i>
	11.15am-1.15pm	Significance of quality control in Irrigation works	Quality control – Overview, Basic Guidelines, Various tests, Quality audit, Quality control manual etc	<i>Er.Babu M S, Assistant Executive Engineer, Quality Control Subdivision, Thrissur</i>
	2.15pm-4.15pm	Art of Professionalism in Engineering	Professional ethics- Integrity, Punctuality, Leadership, Commitment, Co-operation, Team work, Decision making, Stress management etc.	<i>Er.Jose Andrews, Assistant Engineer(Retd), Irrigation Department</i>
30-08-2021	9.00am-10.00am	An outline to Kuttanad Package	Kuttanad Package- Peculiarities of Kuttanad area and its development, Challenges faced	<i>Er.Syam Gopal, Chief Engineer, Kuttanad Package & Inland Navigation</i>
	10.00am-11.00am	Perspectives of Inland navigation waterways in Kerala	Inland navigation through water ways of Kerala, Types of works, Activities under IWT	<i>Er. Arun K Jacob, Director, Inland Navigation Directorate, Kollam</i>
	11.15am-12.15pm	An awareness on the activities of Harbour Engineering Department	Introducing activities undertaken by Harbour Engineering Department	<i>Er.Kunhimammu P, Superintending Engineer, Harbour Engg. North Circle, Puthiappa, Kozhikkode</i>
	2.00pm-3.00pm	Ventures of Kerala Public Works Department	Introducing Activities of Kerala Public Works Department	<i>Er. Baiju P.B, Assistant Executive Engineer, PWD Bridges Sub Division, Kozhikode</i>
31-08-2021	10am-12 noon	Introduction to KSR	Kerala Service Rules, Department tests, Declaration of probation, Service book etc	<i>Shri.K.Sundaran, Administrative Assistant(Retd), Agriculture Department</i>
	6.30pm-8.30pm	Guidelines on Financial Aspects in Irrigation Works	Head of Accounts, Budget allocation (Plan & Non plan), Centrally sponsored schemes and guidelines, SPARK, BIMS, BAMS, EMLI softwares	<i>Shri.Salil T B, Divisional Accountant, Harbour Engg, Kozhikkode</i>

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01-09-2021	6.00pm-8.00pm	Overview on PWD Manual	PWD Manual - Duties & Responsibilities of Assistant Engineer, Overseers & Field officers, Conduct rules, Delegation of powers	<i>Shri.Manoharan, Finance Officer(Retd), Irrigation Department</i>
	8.00pm-9.00pm	Law aspects related to Irrigation Department	Dealing with court cases, Various dispute management etc	<i>Shri.Mohanachandran, Deputy Secretary, Law Department, Secretariat</i>
02-09-2021	6.30pm-7.30pm	Concepts of Micro Irrigation	Irrigation-definition, Different types of irrigation, Crop water requirement, Micro irrigation - different types, automated systems	<i>Dr.Sushanth, Scientist (Retd),CWRDM</i>
	7.30pm-8.30pm	Office Administration Procedures	General idea about office procedures, Developing drafting skills, Forms of correspondance, Tapal management, Keeping of registers (office, field) etc	<i>Sri. B. Madhusoodanan Pillai, Senior Superintendent (Retd.), Irrigation Department</i>
03-09-2021	6.30pm-8.00pm	Introduction to QGIS and Mapping	Geographical Information System (GIS), QGIS software, Other GIS softwares, Applications of Remote Sensing	<i>Er.Chanchal Mary Peter, Assistant Engineer, Irrigation Section, Tirur & Er. Bismi Shafna, Asst Engineer, Irrigation Investigation Section, Aluva</i>
04-09-2021	9.00am-12noon	Departmental Procedures for Execution of works	Introduction to LSGD, Estimation & Rate analysis, DSR, FS/AS/TS, PRICE, Tender procedures, Agreement, Site hand over, Measurement of work, Measurement Book, Check measurement, E-measurement book, Documentation	<i>Er. N. Pradeep Kumar, Assistant Engineer (Retd) LSGD (Pradeepan Thoolika) & Er. Shamsad U C, Assistant Executive Engineer, Minor Irrigation Circle, Kozhikkode</i>
	2.00pm-3.30pm	Conflicts Management in Works	Account Code, Work contract, Conflicts management in contract works, RTI act, Relevant GOs & circulars, GST	<i>Shri. Harilal M, Divisional Accountant, Kerala State Transport Project, Kottarakkara</i>

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06-09-2021	6.30pm-8.30pm	Strategies for Reservoir Operation	Basics of reservoir operation - Rule Curve, Flood routing - Reservoir & Channel routing, Dams under Irrigation Department	<i>Dr. Jasmine I, Assistant Director, IDRB</i>
07-09-2021	6.30pm-7.30pm	Implementation of River Basin Management plans	Basic Concepts of River Basin Management	<i>Dr. Anitha A.B, Scientist (Retd), CWRDM</i>
	7.30pm-8.30pm	Disaster Management- Case Studies	Types of disasters and disaster management, case studies - overview of city floods, Water Conservation Act	<i>Er. Sunil Raj D, Superintending Engineer, Irrigation South Circle, Thiruvananthapuram</i>
08-09-2021	6.30pm-8.30pm	Harithakeralam Mission	Water shed based planning, Harithakeralam Mission	<i>Shri.Renukumar, Programme Coordinator, KILA, Thrissur</i>
09-09-2021	6.30pm-8.00pm	Basic awareness of Mechanical components in Irrigation schemes	Various mechanical components used in Irrigation structures, operation & maintenance, department vehicle management etc, Thannermukkam bund- case study	<i>Er. Satheesh Chandran, Assistant Engineer (Mechanical), Malampuzha & Er. Nibu Andrews, Asst. Executive Engineer, PWD Mechanical Sub Division, Thiruvananthapuram</i>
	8.00pm-9.00pm	Basic awareness of Electrical components in Irrigation schemes	Electrical Components in Irrigation structures, operation and maintenance	<i>Er. Seeja K.R, Assistant Executive Engineer, Electrical Wing, Aluva</i>
10-09-2021	6.30pm-8.00pm	Role of Irrigation Department in Agricultural Sector	Changing Crop pattern scenario, better coordination of departments for better crop yield, Role of Irrigation Department in Agricultural Sector	<i>Smt. Sherly Zacharia, Assistant Director, Agricultural Department, Kottayam</i>
	8.00pm-9.00pm	Monitoring softwares in Irrigation Department	e-Monit software, e office etc	<i>Sri. Alex H.T, HOD, Automation Department, C DIT</i>

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11-09-2021	9.00am-10.00am	Dam Management under KSEB	Dams under KSEB, its peculiarities, Dam Management, sharing experiences	<i>Er. Parameswaran Nair, Board Member (Retd), KSEB</i>
	10.00am-11.00am	Concept of Environmental Flow	An overview of JWR, Concept of Environmental flow, sharing experiences	<i>Dr. Sudheer Padikkal, Superintending Engineer(Retd), Irrigation Department</i>
	2.30pm-4.00pm	Projects in collaboration with Engineering Colleges	NGT order on pollution abatement of rivers, Integration of academic institutions with Water Resources Department - Success review	<i>Dr. Priya K L, Asst Professor, TKM College of Engineering, Kollam</i>
13-09-2021	6.30pm-8.00pm	Soft Solutions in Coastal Protection	Effect of Mangroves and other vegetation on prevention of coastal erosion, coastal nourishment techniques, impacts on ecology , social impacts etc	<i>Dr. T V Sajeev, Scientist E-1, Kerala Forest Research Institute, Peechi</i>
14-09-2021	6.30pm-8.00pm	Chronological Review of ongoing Dam construction - Pattissery Dam	Demonstration of Various construction stages of Pattissery Dam, Dam Instrumentation etc.	<i>Er. Isaac P George, Assistant Engineer, Pampar Project Section-3, Marayoor</i>
			Session by Shri. T K Jose, Additional Chief Secretary, Water Resource Department, Kerala	
15-09-2021 & 16-09-2021		Site visit	Site visit will be arranged as per the prevailing COVID protocols	
17-09-2021	6.30pm-8.30pm		Valedictory Session	