Bridge Inspection, Repair, Rehabilitation and Maintenance Management

Time Period	Description of Topic
Day-1	
09.45-13.00	• Types of Culverts & Bridges • Materials, Structural Forms, Function, Loading etc. • Bridge Components
14.00-17.15	• Distress Types of Major Bridge Components • Causes of Distresses and Repair
Day-2	
09.45 -13.00	• Bridge Inventory: General, Structural, Hydrological etc. • Inspection: Routine, Principal, Emergent & Underwater • Modern Data Collection Techniques: MBIU, Drones, Lidar etc
14.00-17.15	• The Bridge Management Distress • Objective
Day-3	
09.45 -13.00	• Condition Survey (Type, Extent & Severity of Distresses) • Condition Rating and Priority Indices • Network & Project Level Prioritization
14.00-17.15	• NDT Methods • Pull-out Test Penetration Resistance/ Windsor probe Test Resistivity Measurements Half-Cell Potential Measurements Ultrasonic Pulse Velocity Acoustic Emission Test Dynamic Response Test etc. (SP:40)
Day-4	
09.45 -13.00	• Maintenance of Bridges and Culverts • Methods of Maintenance Repair • Repairs and Rehabilitation of Bridges • Methods of Repair & Rehabilitation • New Material & Techniques
14.00-17.15	• Repairs and Rehabilitation of Bridges • Performance Evaluation • Case Studies
17.15-17.30	**Feedback and concluding**