

CE640A: Infrastructure Asset Management**2-0-0-0 [6]****Course Contents:**

Basic discussion of concepts of infrastructure assets and their management, performance of infrastructure assets, stakeholders involved, along with factors affecting the demand and supply of public works services; relating infrastructure and economic development; Strategies for financing public works; performance indicators and measures; Framework for Infrastructure Management: Design for reliability, maintainability, supportability, and service life; Inventory and database management; Condition assessment; Performance modelling and failure analysis; Maintenance strategies, Life-cycle cost and benefits analysis; Introduction to the basic policies and initiatives of the Government in the area of infrastructure asset creation and management (JNNURM, Smart cities, etc.); Case studies including Bridge Management Systems, Pavement Management System, Pipeline management, Hydro-system Asset Management