

## **0403539 Bridges Engineering**

Introduction to highway bridges and historical background, Types and Classification of bridges, Loads (Dead, Live, Environmental, Dynamic effects and Construction Loads), Bridge Design (Philosophy and Codes). Deck slab design, Design of Steel and Prestressed Concrete Gider Bridges of Sub- Structures (Foundations, Abutments, Piers), Maintenance Evaluation and Rehabilitation of Bridges.