

BA5063 INFRASTRUCTURE PLANNING, SCHEDULING AND CONTROL

DETAILED SYLLABUS

OBJECTIVE

- To give an exposure to the students on the concept and the principles of planning, scheduling and control about infrastructure industry.

UNIT I INTRODUCTION

Introduction to infrastructure - Need and importance of infrastructure in India - Overview of power sector - Overview of water supply and sanitation sector-Overview of road, rail, air and port transportation sectors-Overview of telecommunication sector-Overview of rural and urban infrastructure-Introduction to special economic zones-Organizations and players in infrastructure field -Overview of infrastructure project finance.

UNIT II INFRASTRUCTURE PRIVATIZATION

Privatization of infrastructure in India - Benefits of privatization-Problems with privatization- Challenges in privatization of water supply projects- Challenges in privatization of power sector projects – Challenges in privatization of road transportation projects.

UNIT- III RISKS IN INFRASTRUCTURE PROJECTS

Economic and demand risks, political risks, socio-economic risks and cultural risks in infrastructure projects -Legal and contractual issues in infrastructure projects- Challenges in construction of infrastructure projects.

UNIT IV RISK MANAGEMENT FRAMEWORK

Planning to mitigate risk-Designing sustainable contracts-Introduction to fair process and negotiation-Negotiation with multiple stakeholders - Sustainable development- Information technology and systems for successful management.

UNIT V DESIGN & MAINTENANCE OF INFRASTRUCTURE

Innovative design and maintenance of infrastructure facilities- Modelling and life cycle analysis techniques-Capacity building and improving Government's role in implementation- Integrated framework for successful planning and management.

REFERENCES

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Notes
Syllabus
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4. Prasanna Chandra, "Projects – Planning, Analysis, Selection, Implementation Review", Tata McGraw Hill Publishing Company Ltd., New Delhi. 2006.
5. Joy P.K., "Total Project Management - The Indian Context", Macmillan India Ltd., 1992
6. Report on Indian Urban Infrastructure and Services – The High Powered Expert Committee for estimating the Investment Requirements for Urban Infrastructure Services, March 2011
7. Urban Water Development in India 2011 – Published and Distributed by India Infrastructure Research
8. Manual on sewerage and sewage treatment, CPHEEO, Ministry of urban affairs and employment, Govt.of India, New Delhi, 2012
9. Manual of National Highway Authority of India, 1988