NPTEL Syllabus

Infrastructure Finance - Video course

COURSE OUTLINE

This main objective of the course is to provide an understanding and appreciation of a financing technique that is widely used to finance infrastructure projects today.

Project Finance, as it is called, differs quantitatively and qualitatively in many ways as compared to the traditional corporate finance.

This course will provide an exposure to this innovative financing method - Project Finance, and its applicability and utility across industries.

The objective of this course is to give an exposure to the world of project finance on the following areas:

- Project structuring.
- Understand the complexities of accurately constructing and evaluating cash flows.
- Risk assessment and management in infrastructure projects.
- Financing and valuation of infrastructure projects.
- PPP’s in infrastructure.

COURSE DETAIL

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<thead>
<tr>
<th>S.No</th>
<th>Topics</th>
<th>No.of Hours</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to project finance.</td>
<td>1</td>
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<tr>
<td>2</td>
<td>Uses of project finance.</td>
<td>1</td>
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<tr>
<td>3</td>
<td>Motivations for using project finance.</td>
<td>2</td>
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<td>4</td>
<td>Unique features of infrastructure projects.</td>
<td>2</td>
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<tr>
<td>5</td>
<td>Essential elements of project financing.</td>
<td>1</td>
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<tr>
<td>6</td>
<td>Trends in project financing.</td>
<td>2</td>
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<tr>
<td>7</td>
<td>Market for project finance.</td>
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<tr>
<td>8</td>
<td>Project finance in the power sector.</td>
<td>2</td>
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<tr>
<td>9</td>
<td>Project finance in the roads sector.</td>
<td>1</td>
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</tbody>
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Pre-requisites:
1. Financial Management.
2. Micro Economics / Managerial Economics.

Additional Reading:

Hyperlinks:
www.people.hbs.edu/besty/projfinportal/

Coordinators:
Dr. A. Thillai Rajan
Department of Management Studies IIT Madras
Project finance in airports.

Sources for project finance.

Equity.

Multi lateral agencies and financial institutions.

Debt.

Project leasing.

Special purpose vehicles.

Structuring the project company.

Financial analysis.

Valuation - Free Cash Flows, Equity Cash Flows.

Project Risk identification, assessment, management.

Public Private Partnerships.

Case studies in Infrastructure Financing-Bangalore International Airport and Cochin International Airport; Alandur Sewerage Treatment Plant, Hyderabad Outer Ring Road.

Summary.

Total 40

References:


Reference texts:

1. Project Finance, by Freshfields.