Course	title: Infrastructure Project Finance			
Course	code: BSI 127 No. of credits: 2 L-T-P distribution: 28-00-00 Le	arning l	hours: 28	3
Pre-req	uisite course code and title (if any):			
Departı	ment: Department of Business &Sustainability			
Course	coordinator (s): Course instructor (s)	:		
Contact	t details:			
Course	type Core Course offered in: Semester I			
Course	description			
This cou	urse intends to provide an understanding and appreciation of a financing techn	ique tha	t is widel	y used to
finance	infrastructure projects today. The key areas where the course intends to delve	into dee	per detai	ls are:
Challen	gesinFinancing InfrastructureProjects– Sponsor,Developera	ndUserl	Perspectiv	veModels
ofInfras	tructureFinancingRisk Paradigm in InfrastructureProjectsProjectValuationI	Financia	l Structu	ring and
Docume	entation of Projects Financial Instruments and Innovation			-
Course	objectives			
•	Understand and appreciate financing techniques for infrastructure projects.			
•	Learn how to forecast and structure infrastructure project financetransactions			
•	Gain insights into a project finance model through a series of real-world case studies			
•	Become a ware of and capable of handling problems encountered infinancing infrastructure of the second se	tructure	projects	
Course	content			
Module	Topic	L	Т	Р
1.	Challenges in Financing Indian Infrastructure	2	0	0
	OverviewofIndianInfrastructureFinancinglandscape,RoleofPromoters,			
	InvestorsandLenders,Investorchallenge,BankingChallenge,differences			
	in Public Sector and Private Sector objectives			
2.	Key Infrastructure finance concepts	4	0	0
	Capital budgeting and Valuation of infrastructure projects,			
	Present values, Future values, Cash Flow, Concepts of Equity, Debt and			
	Leverage, Capital asset pricing model and how this relates to the structure			
	ofinfrastructuretransactions, Investmentappraisaltechniques, Long-term and			
	workingcapital			
	Case study: Bidding for a highway concession			
3.	Models of Financing Infrastructure	4	0	0
	Public Infrastructure Financing - PPP Principles, Concepts of non or			
	limitedrecourseProjectFinance, different structures and degrees of private			
	participation, Contracting Methods, Design Build (DB), DBM, DBO,			
	DFBO, BOT, BOO and Concession Contracts, Governance Model,			
	Regulatory framework for differentmodels			
4	Project Work: Smart City Financing Models	2		<u></u>
4.	Risk Paradigm for Infrastructure Projects	3	0	0
	Risk areas - Macroeconomic factors, Political risks & role of the			
	government, Construction, Operational and management, Environmental			
	considerations, Counterpartyrisks, initiation, Devaluation, interestikate, Legal	,		
	Case study: Curgoon Expression			
5	Disk Mitigation and Allocation	2	0	
5.	NISK MIUGAUUII AIIU AIIUCAUUII Howararisketynicallyallocated Guarantaesanderaditanhancement. Cash	2	U	U
	flow anhancement. Construction related enhancements			
	Case Evercise: Negotiation of riskallocation from investor and user perspective			
	CaseLActerise.rvegotiationomiskanocatomitominivestoranduser perspective			

6.	Project Finance	3	0	0		
	Bankersperspective-Testingtheassumptionsrealistic,Identifyingkey					
	financialrisksinainfrastructuretransaction, Differentelements of cash flow,					
	Cash available for Debt Service, DSCR, ISCR, Free cash flow,					
	Quantitative indicators, Cash-flow related ratios, Project vs. Corporate					
	related cashflowanalysis, Rating of Project Developers-Financial					
	analysis of Infrastructure firms					
7.	Project Finance Instruments and Innovation Structuring	4	0	0		
	ProjectFinanceissues,Loansvs.Bonds,ECA,CommercialBanks,					
	Leasing, Capital Markets, Localvs. for eign currency, Seniorvs.					
	subordinateddebt,Interestandcurrencyexposure,MultilateralGuarantees					
	and Credit Enhancements Sovereign Guarantee, ECB					
	Case study: International Oil and Gas Project					
8.	Project Finance Documentation	4	0	0		
	ProjectFinancedocumentation,Covenants,3rdpartycreditsupport,					
	Security, Debt service reserve, Escrow and maintenance					
	accounts, Terminationprovisions,					
	Exercise: On debt financing term sheet for an Infrastructure project	_		_		
9.	Project Presentations	2	0	0		
-	Total	28	0	0		
Evaluatio	n criteria					
TES	T 1: WrittenExamination 30%					
TES	T 2: Project Work – Report and Presentation30%					
TES	T 3: WrittenExamination 40%					
Learning	Outcomes					
By the end	d of the course, students will be able to:					
L Understand financing techniques for infrastructureprojects						
L Exer	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$					
L Criti	cally assess problems encountered in financing infrastructureprojects					
Pedagogio	al approach					
Acombina	tionofclass-roominteractionsandassignments with special emphasison cases to	idiesandre	eallife exa	mples.		
Materials						
Principles	of Project and Infrastructure Finance by Willie Tan					
Principles	of Corporate Finance by Richard Brealey. Stewart Myers and Franklin All	len				
Projects P	lanning Analysis Selection Financing Implementation and ReviewhyPrasar	naChand	ra			
ProjectFir	ancein TheoryandPractice hy Stefano Gatti	machana	lu			
PPP and F	Project Finance by Prabuddha Das					
Additiona	l information (if any)					
Student r	esponsibilities					
Attendanc	e, reeaback, discipline, guest faculty etc.					

Prepared By:

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Course Reviewers: Swapanchaudhu ri IPEGlobal

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