19HS1601 - ENGINEERING ECONOMICS AND MANAGEMENT

Course Category:	Humanities and Social Sciences												Credits:		3		
Course Type:	Theory Lecture-Tutorial-Practical:												al-	3-0-0			
												Continuous Evaluation:			30		
Prerequisites:												Semester End Evaluation:			70		
	T											Total	tal Marks:		100		
	Unon	SIICCASS	ful com	nletion	of the o	POlitce	the stud	ent wil	he able	e to:							
	CO1														L2		
	Use Economic analysis in the decision making														L3		
Course	(02)																
Outcomes	CO3 Use various cost concepts, Break-even analysis and Marginal costing														L3		
	CO4	CO4 Choose best from alternative investment opportunities													L1		
	CO5	1										DO11 DO12 DO21			L6		
Contribution	CO1	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2		
of Course Outcomes	CO1		2						3	2	1	3	1		3		
towards	CO2		2						3	2	1	3	1		3		
achievement	CO4		2						3	2	1	3	1		3		
of Program	CO5		2						3	2	1	3	1		3		
Outcomes		L- Low M-Medium H-High															
							ourse C	ontent									
UNIT-1	INTRODUCTION TO ECONOMICS: Economics, Flow in an economy, Law of Supply and Demand, Concept of Engineering Economics, Types of efficiency, definition and scope of engineering economics, Micro Economics and Macro Economics.														CO1		
UNIT-2	Introdu raw m	uction, aterial,		es for s selecti	imple e	a produ	ıct, bui	lding m	aterial	selectio		oduct/ su ss plann			CO2		
UNIT-3	Element Implied Even	ANAI nts of it costs Point (s	costs, C	AND Months of the AND Months o	IARGI nity co Nonrec ns) - M	NAL Cost, Life curring anageri	OSTINE cycle costs. B	G: cost, f reak-ev ificance	ixed vs en Ana and lin	s. Varia lysis (B mitation	EA)-Det	s, Explice ermination A. Marg	on of Bre	eak-	CO3		
UNIT-4	Phases paybac Project	of cap ck perio t Resou	od (DPF	dgeting P), Equi ow, Fir	g, Net p valent i nancial	oresent uniform Sources	value (annual s, Projec	NPV), cost (I ct Cost	Interna EUAC),	l Rate (Benefi	of Return t/cost rat	n (IRR), io (BCR) Return on). Manag	ging	CO4		
UNIT-5	Project	t Cost	Reduct osting -	ion me	thods,	Project ob cost	s Procu	rement l proces	Proces s costin		ect Store	es, Com	puterizat	ion.	CO5		
	1. 1	R.Pann	eerselva	m. Eno	ineerin					vt. Ltd	2020.						
Text Books	 R.Panneerselvam, Engineering Economics, PHI Learning Pvt. Ltd., 2020. P.Chandra, Planning Analysis: Selection Implementation & Review, Tata McGraw Hill, 2009. 																
Reference Books	1.	V.N Vazirani and M.M Ratwani, MEFA, Cengage Learning India Pvt. Ltd., 2012. K.N.Jha, Construction Project Management: Theory and Practice, Pearson Education, 2015.															
e- Resources & other digital material					N.N.Jna, Construction Project Management: Theory and Practice, Pearson Education, 2013. https://nptel.ac.in/courses/105/104/105104178/												