MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

COURSE PLAN

Department	:	Humanities and Management
Course Name & code	:	Engineering Economics & Financial Management & HUM 4002
Semester & branch	:	VI Semester & Common to All
Name of the faculty	:	Dr. Gopalakrishna, Mr. Lidwin, Mr. Sunith, Mr.Mahesh, Mr. Sumukh, Ms. Geethalakshmi and Ms. Anasuya
No of contact hours/week:		3 hours

ASSESSMENT PLAN:

1. In Semester Assessments	50%
• Written tests :	30%
• Assignment/Quiz/Seminar :	20%
2. End Semester Examination	50%
• Written examination of 3 hours duration (Max. Marks: 50)	

Portions for Assignment/Quiz/Seminar etc....	
Sl. no.	**Topics/Lessons**
1	L1 to L12
2	L 13 to L 24
3	L 25 to L 36
4	Click or tap here to enter text.
5	Click or tap here to enter text.
Portions for Sessional Test	
Test no.	**Topics/Lessons**
1	L1 to L 15
2	L 16 to L 30

Course Outcomes (COs)

At the end of this course, the student should be able to:

		No. of Contact Hours	Program Outcomes (POs) addressed
CO1:	Understand the concepts of demand and supply	03	POs
CO2:	Understand the appropriate engineering economics analysis method(s) used in problem solving	16	POs
CO3:	Compute the depreciation of an asset using standard depreciation techniques	03	POs
CO4:	Describe and apply the basic techniques of financial statement analysis	06	POs
CO5:	Apply all mathematical approach models covered in solving engineering economics problems	08	POs

Course Plan

L. No.	Topics	Course Outcome Addressed
L0	Introduction to the course and the evaluation criterion	CO
L1	Introduction to engineering economics and Economic decision making	CO1
L2	Micro economics and Macro economics, Demand and Law of demand	CO1
L3	Supply and Law of supply, Equilibrium of demand and supply	CO1
L4	Time value of money meaning and importance, Interest meaning and types	CO2
L5	Interest factors for discrete compounding, Problems	CO2
L6	Interest factors for discrete compounding, Problems	CO2
L7	Interest factors for discrete compounding, Problems	CO2
L8	Arithmetic gradient series factor, Problems	CO2
L9	Application numerical on seven interest factors	CO5
L 10	Nominal and effective interest rate, Problems	CO2
L11	Nominal and effective interest rate, Problems	CO2

L12	Application numerical with nominal and effective interest rate	CO5
L. No.	**Topics**	**Course Outcome Addressed**
L 13	Economic evaluation of alternatives: Bases for comparison of alternatives, Importance and assumptions, Problems	CO2
L 14	Economic evaluation of alternatives: Present Worth Method - LCM method and Study period method, Problems	CO2
L 15	Economic evaluation of alternatives: Application numerical on present worth method	CO5
L16	Economic evaluation of alternatives: Capitalized equivalent amount	CO2
L 17	Economic evaluation of alternatives: Annual worth method and its importance, Determining Annual equivalent amount, Problems	CO2
L18	Economic evaluation of alternatives: Capital recovery with return, Application numerical on annual worth method	CO5
L19	Economic evaluation of alternatives: Rate of return method	CO2
L 20	Economic evaluation of alternatives: Rate of return method	CO2
L 21	Economic evaluation of alternatives: Rate of return method, Application based numerical	CO5
L 22	Replacement Analysis: Reasons, Evaluation of replacement alternatives	CO2
L23	Replacement Analysis: Evaluation of replacement alternatives with unequal lives	CO2
L 24	Replacement Analysis: Economic life of an asset, Application based numerical	CO5
L25	Depreciation: Meaning and significance, Physical and functional depreciation	CO3
L 26	Depreciation: Methods of depreciation with numerical	CO3
L27	Depreciation: Methods of depreciation with numerical	CO3
L 28	Financial Management: Nature and objectives, Scope and functions	CO4
L29	Financial Statement Analysis: Introduction, Types and importance	CO4
L 30	Financial Statement Analysis: Understanding the financial statement	CO4
L31	Financial Statement Analysis: Ratio analysis, Problems	CO4
L32	Financial Statement Analysis: Ratio analysis, Problems	CO4
L33	Financial Statement Analysis: Ratio analysis, Problems	CO4
L 34	Break-even Analysis (B.E.A.): Meaning, Assumptions and Applications, Estimation of breakeven point	CO2
L 35	Break-even Analysis: Break even analysis for evaluation of investment alternatives.	CO5
L 36	Application based numericals on evaluation of investment alternatives using B.E.A.	CO5

References:

1. Thuesen G. J, "Engineering Economics", Prentice Hall of India, New Delhi, 2005.
2. Blank Leland T. and Tarquin Anthony J., "Engineering Economy", McGraw Hill, Delhi, 2002.
3. Chan S. Park, "Contemporary Engineering Economics", 4th Edition, Pearson Prentice Hall, 2007.
4. Prasanna Chandra, "Fundamentals of Financial Management", Tata McGraw Hill, Delhi, 2006.
5. Maheshwari S.N, "Financial Management", Sultan Chand & Co., Delhi, 2002.
6. T. Ramachandran, "Accounting and Financial Management", Scitech Publications Pvt. Ltd. India, 2001.
7. I M Pandey, "Financial Management", Vikas Publishing house, Delhi, 2007.

Submitted by: Dr. B Gopalakrishna

(Signature of the faculty)

Date: 05-01-2018

Approved by: Dr. Lewlyn L. R. Rodrigues

(Signature of HOD)

Date: 05-01-2018

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FACULTY MEMBERS TEACHING THE COURSE (IF MULTIPLE SECTIONS EXIST):

FACULTY	SECTION	FACULTY	SECTION
Mr. Lidwin Kenneth	CSE-D, ICT-B, EEE-C	Dr. B Gopalakrishna	CSE-C
Mr. Sunith Hebbar	CCE-A		
Mr. Mahesh Prabhu	CSE-B, CIV-B, EEE-B		
Mr. Sumukh Hungund	CSE-A, CIV-A, ICE_A		
Lt. Cdr Geetalakshmi PM	CCE-B, EEE-A		
Ms. Anasuya K. L.	ICT-A, CIV-C, ICE-B		

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