Scheme of Course Work

Course Title	Management Science
Course Code	15HM 1102
Program	B.Tech
Semester	V
Prerequisites	Managerial Economics & Financial Accounting

Course Outcomes

1	Develop an understanding towards the concepts and evolution of management and organization structures and to identify the steps in decision making process.
2	List out the factors influencing plant location and layout, Application the techniques of quality control and inventory management. Apply the concept to plan a schedule of project and to review with techniques of PERT and CPM.
3	Analyze the functions of HR management and identify the different HR practices.
4	Define the concept of Marketing Management, Product life cycle, plan effective marketing strategies along with channels of distribution.
5	To elucidate the concept of financial management, working capital management and various capital budgeting techniques.

Course Outcomes versus Program Outcomes

CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	М								М	М	M	Μ
C02								М	М	S	S	
CO3									М	М	S	
CO4											M	
CO5											M	S

S-strongly correlated M-Moderately correlated Blank- No correlation

Week	Topics/Contents	СО	Sample Questions	Teaching learning strategy		Assessment Method & Schedule
1	Introduction to	1	1. Explain the nature	•	Lecture	Assignment-
	Management		and scope of	•	Discussion	I/Quiz-I/Mid-I
	Concept-nature and		management?			
	importance of					
	management- functions					
	of management-		2. What are the			
	evolution of		functions of			
	management thought		management?			
2	Evolution of	1	1. Scientific	•	Lecture	Assignment-
	management thought		management	•	Discussion	I/Quiz-I/Mid-I
	theories of motivation-		theory?			

	decision making process		2 Thoories of			
	decision making process		2. Theories of			
3	-organization structure- Principles of	1	management? 1. Principles of	_	l a aku	Assignment-
3	organization – types of	1	Organization	•	Lecture	I/Quiz-I/Mid-I
	organization structure		2.Line & Staff Org	•	Discussion	i/Quiz-i/iviiu-i
	organization structure		Structure			
4	Operations & Project	2	1.Principles of plant	•	Lecture	Assignment-
4	Management- Principles	_	layout		Discussion	I/Quiz-I/Mid-I
	and types of plant		2. Procedure for		Problem	1/ Quiz 1/11/11/11/11
	layout- work study-		Method study		Solving	
	statistical quality		3.Procedure for		Joiving	
	control- control charts		work measurement			
	(R Chart, P Chart & C					
	Chart- Simple numerical					
	problems)					
5	(R Chart, P Chart & C	2	1.Numerical	•	Lecture	Assignment-
	Chart- Simple numerical		Problem	•	Discussion	I/Quiz-I/Mid-I
	problems) materials		2. Inventory models	•	Problem	
	management- Need for				Solving	
	Inventory					
6	Control- EOQ, ABC	2	1.Algebraic method	•	Lecture	Assignment-
	Analysis (Simple		for determination	•	Discussion	I/Quiz-I/Mid-I
	numerical Analysis).		of EOQ	•	Problem	
	Project Management:		2. Project		Solving	
	Project planning and		Management			
7	control	2	4 Dhanna of musicat			A i
/	Project life cycle-	2	1.Phases of project	•	Lecture	Assignment-
	Development of network-Difference		life cycle 2.Differnece	•	Discussion	I/Quiz-I/Mid-I
	between PERT and CPM		between PERT &	•	Problem	
	-Identifying critical path.		CPM		Solving	
8	Numerical Problems	2	1.Numerical	•	Problem	Assignment-
-			problems on		Solving	I/Quiz-I/Mid-I
			crashing of network		20.70	,
			2. Determination of			
			optimum project			
			duration and			
			schedule			
9			MID TEST-I			
10	Human Resource	3	1.Discuss the	•	Lecture	Assignment-
	Management		functions	•	Discussion	II/Quiz-II/Mid-II
	Concept of HRM -		performed by HR			
	Functions of HR		manager			
	Manager		2. What are the			
			differences			
			between Personnel			
			& HR management			

11	Job Evaluation and Performance Appraisal	3	1.Methods of JobEvaluation2. Methods ofperformanceappraisal	•	Lecture Discussion	Assignment- II/Quiz-II/Mid-II
12	Competency Management, HR Planning, Training and Development	3	 What is competency management? Explain Difference between training and development. 	•	Lecture Discussion	Assignment- II/Quiz-II/Mid-II
13	Marketing Management Marketing Management - Functions of Marketing Management- Marketing mix	4	1. Define marketing.Explain the functions of marketing.2. What is marketing mix.	•	Lecture Discussion	Assignment- II/Quiz-II/Mid-II
14	Marketing strategies based on product life cycle - Channels of Distribution.	4	1. Discuss the marketing strategies of product life cycle.	•	Lecture Discussion	Assignment- II/Quiz-II/Mid-II
15	Financial Management Introduction to financial management, nature, scope, and objectives Working Capital Management: Preparation of changes in working capital statement and Fund flow statement.	5	 Discuss the nature and scope of financial management. What is working capital. 	•	Lecture Discussion Problem Solving	Assignment- II/Quiz-II/Mid-II
16	Capital Budgeting: Meaning of capital budgeting, need for capital budgeting – Capital budgeting decisions -	5	 What is capital? What are the types of capital? 2. What is capital budgeting? 	•	Lecture Discussion	Assignment- II/Quiz-II/Mid-II
17	Methods of Capital Budgeting: Payback Method, Accounting Rate of Return, IRR and Net Present Value Method (simple problems).	5	1.Procedure for ARR 2.Procedure for determination of IRR	•	Lecture Discussion Problem Solving	Assignment- II/Quiz-II/Mid-II
18			MID EXAM -2			