		Walch	hand College of En (Government Aided Autono		ngli					
			AY 2021-2	22						
			Course Inform	ation						
Progr	amme		B.Tech. (Open Elective))						
Class,	Semester		Final Year B. Tech., Se	m VII						
Cours	e Code									
Cours	e Name		Management for Engine	eers						
Desire	d Requisi	ites:	*							
	Teaching			mination Schem		Total				
Lectu	re 3 Hrs/week T1 T2 ESE									
Tutor		-	20	20	60	100				
Practi		-								
Intera	ction	-		Credits: 3	3					
			<u> -</u>							
	-		Course Objec							
1	To cover key components of project management including project integration, project scope management, project time and cost management, quality management, human resource considerations, communications, risk management, and procurement management.									
2	To stay competitive companies have sought to shorten the construction times of new infrastructure by managing construction development efforts effectively by using different project management tools.									
3	is broke		use a basic project manag g, planning, monitoring,							
	'	ı J	Course Outcome	es (CO)						
CO1	specific	tools, models and								
CO2	such as t	ime, cost, quality	in monitoring and control y, safety and scope.		_					
CO3		•	ectors for successful Prope context of effective Ris		reasons for failure	e based on				
Modu	ıle		Module Conto	ents		Hours				
		es of Project Ma								
I	Intro Area of Pr Dela	duction, Need f s and Processes, roject Management	For Project Management The Project Life Cycle, ent Life Cycle, Project Mompletions, Essentials of	The Project Man Ianagement Proc	ager (PM), Phases esses, Impact of	6				
II	Proj Intro Study Proj Intro Role Brea	ect Identification oduction, Project y, Feasibility Sturect Planning: oduction, Project Responsibility Responsi	n and Selection: t Identification Process, dies, Project Break-even t Planning, Need of Pro y and Team Work, (WBS)	point oject Planning, P Project Planning	roject Life Cycle, g Process, Work	6				
III	Orga Relat	nisational Struc ionship betweer	cture and Organisation ture, Roles and R roject Manager and L onflict Resolution,	esponsibilities o	of Project Leader,	5				

	PERT and CPM:	
IV	Introduction, Development of Project Network, Time Estimation, Determination of the Critical Path, PERT Model, Measures of variability, CPM Model, Network Cost System	7
	Project Quality Management and Value Engineering:	
	Introduction, Quality, Quality Concepts, Value Engineering	
	Project Execution and Control:	
	Introduction, Project Execution, Project Control Process, Purpose of Project	
	Execution and Control	
V	Introduction to Material Management	8
	Materials flow system, role of materials management and its linkage with other	
	functional areas, vendor networking, buyer-seller relationships, EOQ model, material codification and classification, concept of logistics and supply chain management,	
	Project Risk and Safety Management:	
	Introduction, Risk, Risk Management, Role of Risk Management in Overall	
	Project Management, Steps in Risk Management, Risk Identification, Risk	
VI	Analysis, Reducing Risks	6
	accidents causes and effects, costs of accidents, occupational health problems in	
	construction, Safety and health management system, Health and safety act	
	regulations	
	Text Books	
	Kumar Neeraj Zha, "Construction Project Management", Pearson India Education, 1	et
1	edition,(2011)	St
2	Saleh Mubarak, "Construction Project Scheduling and Control", Wiley, 2nd edition	(2010)
3	P K Joy, "Handbook of Construction Management", Macmillan India Limited, 2nd edition (2000)	
	References	
1	Larson, E.W. and Gray, C.F. (2018), Project management the managerial process, Se Edition, McGraw-Hill	eventh
2	Chitkara K K, "Construction Project Management : Planning, Scheduling and Control Tata McGraw - Hill Education, 2nd edition, 2010	olling",
3		

	CO-PO Mapping with regards to B.Tech Mechanical Programme:															
	Programme Outcomes (PO)													PSO		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1					1			1		1			2			
CO2						2				1			3			
CO3					1	2	2			2				3		

The strength of mapping is to be written as 1,2,3; Where, 1:Low, 2:Medium, 3:High Each CO of the course must map to at least one PO.

СО-РО	CO-PO Mapping with regards to B.Tech. Electrical Engineering Programme:																
	Programme Outcomes (PO)														PSO		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3		
CO1	1												2				
CO2	1	1	1					1					3				
CO3		1	2			2		1						3			

The strength of mapping is to be written as 1,2,3; Where, 1:Low, 2:Medium, 3:High Each CO of the course must map to at least one PO.

СО-РО	CO-PO Mapping with regards to B.Tech Electronics Engineering Programme:															
	Programme Outcomes (PO)													PSO		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1							1	2					2			
CO2							1	1	1		1		3			
CO3						2	2		1		1			3		

The strength of mapping is to be written as 1,2,3; Where, 1:Low, 2:Medium, 3:High Each CO of the course must map to at least one PO.

СО-РО	CO-PO Mapping with regards to B.Tech Computer Science Engineering Programme:															
	Programme Outcomes (PO)													PSO		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1									1				2			
CO2									1	1	1		3			
CO3										2	1			3		

The strength of mapping is to be written as 1,2,3; Where, 1:Low, 2:Medium, 3:High Each CO of the course must map to at least one PO.

	CO-PO Mapping with regards to B.Tech Information Technology Engineering Programme:														
				P	rograi	nme (Outcon	nes (PO	O)					PSO	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2				1			1					2		
CO2	2							1					3		
CO3						1	2	2						3	

The strength of mapping is to be written as 1,2,3; Where, 1:Low, 2:Medium, 3:High Each CO of the course must map to at least one PO.

Assessment

The assessment is based on 2 in-semester examinations in the form of T1 (Test-1) and T2 (Test-2) of 20 marks each. Also there shall be 1 End-Sem examination (ESE) of 60 marks. T1 shall be typically on modules 1 and 2, T2 based typically on modules 3, 4 and ESE shall be on all modules with nearly 50% weightage on modules 1 to 4 and 50% weightage on modules 5, 6.

Assessme	Assessment Plan based on Bloom's Taxonomy Level												
Bloom's Taxonomy Level	T1	ESE	Total										
Remember													
Understand	10	10	35	55									
Apply	10	10	25	45									
Analyze													
Evaluate													
Create													
Total	20	20	60	100									