

Subject: Construction Management (PEC-CVE453-T)

Week	Theory		Topic Covered Date and Remarks		
	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director-principal
1 st	1.	Quantity Surveying and Cost Estimation: Definitions, objectives			
	2.	role and functions of quantity surveyor			
	3.	Pre- tender survey, Quantity measurements,			
2 nd	4.	Bill of quantities, analysis of rates for different items of work.			
	5.	Specifications. General and detailed specifications for different items of work.			
	6.	Estimates and budgets types and their preparation			
3 rd	7.	Estimate of Buildings, Roads, Building Bye Laws, Taking-off quantities,			
	8.	Methods of measurement, e- tendering, Bill of quantities.			
	9.	Contracts: Definition, need, importance			
4 th	10.	types of contracts and their characteristics,			
	11.	procedure for tendering and contracts,			
	12.	evaluation and examination of tenders, award of work,			
5 th	13.	Joint Ventures, Concession Agreements.			
	14.	Valuation, its types, Determination of value of a property			
	15.	Calculation of standard rent.			
6 th	16.	Definitions, functions, characteristics of project, planning and principles of Planning and Management.			
	17.	Definitions, functions, characteristics of project, planning and principles of Planning and Management.			
	18.	Network Techniques: Bar milestone charts			
7 th		-----Ist Minor Test-----			
8 th	19.	Planning and scheduling of PERT / CPM, Time cost optimization,			
	20.	Probability concepts Allocation of resources and resource levelling,			
	21.	Time cost optimization, Probability concepts Allocation of resources and resource levelling.. Updating, controlling and monitoring,			
9 th	22.	Work Breakdown Schedule (WBS). Updating, controlling and monitoring, Work Breakdown Schedule (WBS).			
	23.	Material & Equipment Management: Importance, scope,			
	24.	objectives and functions			
10 th	25.	identification of source and vendor analysis,			
	26.	identification of source and vendor analysis			
	27.	purchase, procurement procedure, inventory control			
11 th	28.	purchase, procurement procedure, inventory control,			
	29.	EOQ analysis			
	30.	Importance, need, functions and principles of equipment management,			
12 th	31.	types of equipment and their uses,			
	32.	Selection planning and matching of construction plant and equipment.			
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13 th	34.	Account Procedure of PWD Works: Classification of Works,			
	35.	Account Procedure of PWD Works: Classification of Works,			
	36.	Muster Roll, and Deposit works. Indent, Tools and Plants			
14 th		-----2 nd Minor Test-----			
15 th	37.	Cash Book, Imprest			
	38.	temporary Advance, Stores,			
	39.	Indent, Tools and Plants			