

<b>GANPAT UNIVERSITY</b>									
<b>FACULTY OF ENGINEERING &amp; TECHNOLOGY</b>									
Programme		Bachelor of Technology			Branch/Spec.		Civil Engineering		
Semester		VIII			Version		2.0.0.0		
Effective from Academic Year			2019-20		Effective for the batch Admitted in			2014-15	
Subject code		2CI802		Subject Name		<b>CONSTRUCTION MANAGEMENT</b>			
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	3		1		4	Theory	40	60	100
Hours	3		2		5	Practical	35	15	50
Pre-requisites:									
Learning Outcome:									
After Completion of the Curriculum of this subject students can able to understand what mean by Planning and students get awareness about Management Techniques which is most important in civil engineering, they also aware with some management Software.									
Theory syllabus									
Unit	Content								Hrs
1	<b>Introduction :</b> Construction industry, construction team, Project types, Practice, need of management, types of management.								2
2	<b>Project Planning :</b> Planning philosophy, types of construction, Role of construction manager, Contractor, Project initiation, Project Organization.								2
3	<b>Construction Network Analysis:</b> Bar chart, Mile stone, network elements, development of network, time estimation, CPM, PERT approaches, , CPM updating, network examples , LOB , PNA methodology								10
4	<b>Resources Planning &amp; Management :</b> Labour requirements & productivity, Equipment management, Material management, Inventory control, personnel management, resources planning, smoothing and levelling								8
5	<b>Cost &amp; Financial Management :</b> Production function, Direct & Indirect costs, Contingency cost control system, Cash flow control , appraisal of projects, budgeting, time -cost optimization								8
6	<b>Project Control &amp; Construction Safety :</b> Control process, Areas of control, Schedule control, Monitoring, Quality control, Safety aspects								2

7	<b>Information system:</b> Study of software like, MS Project, primavera etc.	4
<b>Practical content</b>		
Based on the course prescribed above.		
<b>Text Books</b>		
1	K. K. Chitkara “Construction Project Management - planning, Scheduling and Controlling” Tata McGraw Hill Publishing Co. Ltd., New Delhi, (1998)	
<b>Reference Books</b>		
1	B Sengupta & H Guha , “Construction Management and Planning”	
2	George J. Ritz “Total Construction Project Management” ,McGraw Hill, Inc. (1994)	
3	Punamia B.C., &KandelwalK.K.,“Project Planning and Control”, Laxmi Publication, Delhi, (1990)	