



CO5	3	2	2	2								3	3
Avg	3	3	2	2						3		3	2

Syllabus

Unit No	Content	Mapped COs
I	Quality and Safety Management, Quality assurance and Control Principles and managing On-Site safety procedure to minimize risks	CO1
II	Cost Estimation and Control methods for calculating project cost, managing budgets, and performing economic analysis such as benefit cost analysis	CO2
III	Material and machinery management optimizing the procurement, use and maintenance of construction materials and heavy equipment	CO3
IV	Building Information Modeling (BIM)- The use of 3D Modeling and other technologies to improve Project Management, Collaboration and efficiency	CO4
V	Sustainable Construction and Green Buildings techniques and Practices for reducing a project’s Environmental impacts, including Green Building certification and waste management strategies	CO5

Learning Resource(s)
Text Book(s)
<ol style="list-style-type: none"> 1. Construction Safety Management, 1st Edition by Neeraj and Amarjit 2. Construction Quality management: Principles and practice by Tim Howrath 3. Estimating and Costing in Civil Engineering by B.N.Dutta 4. Construction Management and Machinery by B.Gupta 5. BIM for Dummies by Stefen Mordue, Paul Swaddle and David Philip 6. GRIHA Manual
Reference Book(s)
<ol style="list-style-type: none"> 1. Safety management in Construction (Principles and Practices) by Sk. Bhattacharjee 2. Construction Quality Management Principles and Practice by Tim Howrath 3. Cost management of Construction Projects by Donald Towey 4. BIM and Construction Management: Proven tools, methods and work flocas by Brad Hurdin and Daure Mccod 5. Sustainable Construction: Green building design and delivery by Charles J. Kibert