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**CIRCULAR**

**Subject:** BCV501 module 02 unmerged syllabus regarding... regarding...

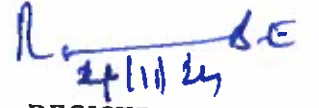

**Reference:** email from the Chairperson Board of Studies in CV VTU Belagavi dated 30.10.2024

This is reference to the subject cited above, module 02 of the syllabus for the course **BCV501— Construction Management & Entrepreneurship**, which was previously merged in the syllabus template, has now been corrected. The revised version, with a portion of syllabus in module 02 unmerged, has been submitted by the Chairperson of the Board of Studies in Civil Engineering, VTU Belagavi. A copy of the updated syllabus is attached to this circular for reference and use.

All Principals of Engineering Colleges are informed to disseminate the updated content of this circular to all concerned teachers and students

Warm regards,

Encl: BCV501 Syllabus

  
REGISTRAR  


To,

The Principals of Engineering Colleges are under the ambit of the University.

Copy

Copy to:

- The Registrar(Evaluation) VTU Belagavi for information and needful
- The Chairperson and Members Board of Studies in CV VTU Belagavi for information
- The Director(I/c) ITI SMU VTU Belagavi for information and to upload the circular on VTU web portal.
- The Special Officer QPDS for information and needful
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- Office Copy

<b>Construction Management and Entrepreneurship</b>		Semester	5
Course Code	<b>BCV501</b>	CIE Marks	50
Teaching Hours/Week (L: T:P: S)	3:0:0:0	SEE Marks	50
Total Hours of Pedagogy	40	Total Marks	100
Credits	03	Exam Hours	
Examination type (SEE)	Theory		
<b>Course objectives:</b>			
<ul style="list-style-type: none"> <li>• To understand the concept of Scheduling and cost management in construction project</li> <li>• To go through the Statutory and regulatory requirements in construction</li> <li>• To explain the concept of procurement and contract management</li> <li>• To understand Quality and Safety during construction.</li> <li>• To identify the risks and its management.</li> </ul>			
<b>Teaching-Learning Process (General Instructions)</b>			
These are sample Strategies, teachers can use to accelerate the attainment of the various course outcomes.			
<ol style="list-style-type: none"> <li>1. Chalk and talk</li> <li>2. PPT</li> <li>3. YouTube video lectures</li> <li>4. Open book test to understand the concepts..</li> </ol>			
<b>Module-1</b>			
<b>Planning and Scheduling</b>			
Construction project formulation – construction management, define scope – scope management, types of project planning and its management, Statutory and regulatory requirements- layout and building plan approval, contract, Fire and Safety, Quality, Environmental, commencement certificate, legal and public policies.			
Schedule management – WBS, Bar Charts, Sequencing and Dependency, Network Diagram, Activity Duration, Critical Path Method, PERT, Case study.			
Cost Management - Creating schedules, Assigning Resources, Cost, Evaluation, Optimization and Tracking.			
<b>Module-2</b>			
<b>Resource management</b>			
Resource Management - Basic concepts of resource management, class of labour, Wages & statutory requirement, Labour Production rate or Productivity, Factors affecting labour output or productivity. Construction Equipment - classification of construction equipment, estimation of productivity for: excavator, dozer, compactors, graders, and dumpers. Estimation of ownership cost, operational and maintenance cost of construction equipment. Selection of construction equipment and basic concept on equipment maintenance. Materials: Material management functions, inventory management			
<b>Module-3</b>			
<b>Contract and Procurement management</b>			
Procurement – procurement types, planning, stages – procurement execution – sustainable procurement management			
Construction contract –formation, types, essential elements, contract law – tendering process- contract award – Documentation – contractor and sub-contractor management –claims – disputes- compensation – breach of contract – project completion and project closure			
<b>Module-4</b>			
<b>Quality, Safety and Risk Management</b>			
Quality Management - Occupational Health, Safety and Environment, Barriers, Quality Management System - Chart and tools.			
Safety management - safety requirements, Safety and Health codes.			

Risk management - Process, Terminology, Identification, Analysis and Response Strategy Completion certificate, occupancy certificate, Facilities management

#### Module-5

#### Introduction to Entrepreneurship -

Characteristics of a Successful Entrepreneur, Understand the entrepreneurial journey, different entrepreneurial styles, personality traits, strengths, and weaknesses. 5M Model, Communication skills: communication breakdown- miscommunication and poor listening, rectification.

**Business Planning Process:** Business planning process, marketing plan, financial plan, project report and feasibility study, guidelines for preparation of model project report for starting a new venture. Introduction to international entrepreneurship opportunities, entry into international business, exporting, direct foreign investment, venture capital.

#### Course outcome (Course Skill Set)

At the end of the course, the student will be able to :

1. Develop WBS and estimate the resource requirements
2. Analyse the cost control monitoring and accounting methods for a project
3. Understand the Statutory and legal requirements for a construction
4. Prepare the plan for procurement management and Risk mitigation.
5. Understand the concept of entrepreneurship and business planning.

#### Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50) and for the SEE minimum passing mark is 35% of the maximum marks (18 out of 50 marks). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

#### Continuous Internal Evaluation:

- For the Assignment component of the CIE, there are 25 marks and for the Internal Assessment Test component, there are 25 marks.
- The first test will be administered after 40-50% of the syllabus has been covered, and the second test will be administered after 85-90% of the syllabus has been covered
- Any two assignment methods mentioned in the 22OB2.4, if an assignment is project-based then only one assignment for the course shall be planned. The teacher should not conduct two assignments at the end of the semester if two assignments are planned.
- For the course, CIE marks will be based on a scaled-down sum of two tests and other methods of assessment.

**Internal Assessment Test question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.**

#### Semester-End Examination:

Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for the course (duration 03 hours).

1. The question paper will have ten questions. Each question is set for 20 marks.
2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub-questions), **should have a mix of topics** under that module.
3. The students have to answer 5 full questions, selecting one full question from each module.
4. Marks scored shall be proportionally reduced to 50 marks

**Suggested Learning Resources:****Books**

1. Chitkara, K.K, "Construction Project Management: Planning Scheduling and Control", Tata McGraw Hill Publishing Company, New Delhi.
2. Dr. U.K. Shrivastava "Construction Planning and Management", Galgotia Publications Pvt. Ltd. New Delhi.
3. Engineering Economics, R Panneerselvam, Eastern Economy Edition 2001, PHI, ISBN - 81- 203-1 743-2.
4. Cost Accounting, Khan M Y, 2nd Edition, 2000, Tata McGraw-Hill, ISBN 0070402248
5. Mechanical Estimating & Costing, T.R.Banga, S.C.Sharma, 16th Edition, 2011, Khanna Publishers, ISBN 8174091009
6. Poornima M. Charantimath, "Entrepreneurship Development and Small Business Enterprise", Dorling Kindersley (India) Pvt. Ltd., Licensees of Pearson education.

**Web links and Video Lectures (e-Resources):**

- NPTEL VIDEOS.

**Activity Based Learning (Suggested Activities in Class)/ Practical Based learning**

- Seminars/Quizz(To assist in GATE Preparations
- Self Study on simple topics
- Case Study Presentation