



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) in Light of NEP-2020
Civil Engineering Department
Generic Elective (Undergraduate Courses)
EVEN Sem

COURSE CODE	CAT-EGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BTCE412	GE	Construction Management	60	20	20	0	0	3	0	0	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

1. To train the students with the latest and the best in the rapidly changing fields of Construction Engineering, Technology and Management.
2. To prepare the students to be industry leaders who implement the best engineering and management practices and technologies in the construction industry.
3. To continually work with industry to enhance the program's effectiveness and the opportunities for innovation in the construction industry.

Course Outcomes (COs):

The student will be able to

1. Apply theoretical and practical aspects of project management techniques to achieve project goals.
2. Possess organizational and leadership capabilities for effective management of construction projects.
3. Apply knowledge and skills of modern construction practices and techniques.
4. Capable of using relevant software packages for planning, scheduling, executing, and controlling of construction projects.

UNIT I

General Management: Introduction and characteristics of management, Principle and function management, Scientific of management. **08 Hrs.**

Construction Management: Definition, functions, and scope of construction management; scientific methods of management, construction team.

UNIT II

Manpower Planning: Manpower Planning process, Role of HR manager, Personnel Principles, Managerial Staffing, Recruitment Selection strategies. Human relations and Organizational Behaviour: Introduction & Significance, Basic individual psychology, Conflicts in organizations, Engineer as Manager, Communication, and negotiation skills. **08 Hrs.**

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Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

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Faculty of Studies
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Controller of Examination
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

Joint Registrar
Shri Vaishnav Vidyapeeth
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UNIT III

08 Hrs.

Materials Management: Scope, Objective and functions of material management, Procurement and store management, Materials handling management, Inventory control and management, Disposal of Surplus Materials.

UNIT IV

08 Hrs.

Construction Planning: Basic Concepts in the Development of Construction Plans, Choice of Technology and Construction Method, Estimating Activity Durations & Resource Requirements for Work Activities.

Site Layout: Principles governing site lay out, factors effecting site lay out, preparation of site lay out, Feasibility study, project reports, progress reports, monitoring and controlling construction activities.

UNIT V

08 Hrs.

Construction Contracts: Indian Contracts Act, Elements of Contracts, Types of Contracts, Features, Suitability, Design of Contract Documents, International Contract Document, Standard Contract Document.

Text Books:

1. Mahesh Verma, 'Construction Equipment and its Planning and Application'.
2. R.L. Peuripo, 'Construction Planning Equipment and Methods', Tata McGraw Hill.
3. Calin M. Popescu, Chotchai Charoenngam, "Project Planning, Scheduling and Control in Construction: An Encyclopedia of terms and Applications", Wiley, New York, 1995.

Reference Books:

1. Chitkara, K.K. "Construction Project Management: Planning, Scheduling and Control", McGraw-Hill Publishing Company, New Delhi, 1998
2. Carleton Counter II and Jill Justice Coutler, "The Complete Standard Handbook of Construction Personnel Management", Prentice-Hall, Inc., 1989.

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