



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav School of Management

Choice Based Credit System (CBCS) in Light of NEP-2020
MBA-INTERNATIONAL BUSINESS - III SEMESTER (2021-2023)

MBAI301C ADVANCED HUMAN VALUES AND PROFESSIONAL ETHICS

COURSE CODE	CATEGORY	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*				
MBAI301C	AECC	Advanced Human Values and Professional Ethics	60	20	20	-	-	3	-	-	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; AECC- Ability Enhancement Compulsory Course

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

Course Objective

The objective of the course is to disseminate the theory and practice of moral code of conduct and familiarize the students with the concepts of “right” and “good” in individual, social and professional context

Examination Scheme

The internal assessment of the students’ performance will be done out of 40 Marks. The semester Examination will be worth 60 Marks. The question paper and semester exam will consist of two sections A and B. Section A will carry 36 Marks and consist of five questions, out of which student will be required to attempt any three questions. Section B will comprise of one or more cases / problems worth 24 marks.

Course Outcomes

1. Help the students to understand right conduct in life.
2. To equip students with understanding of the ethical philosophies, principles, models that directly and indirectly affect personal and professional life.

Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

Controller of Examination
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

Joint Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav School of Management

Choice Based Credit System (CBCS) in Light of NEP-2020
MBA-INTERNATIONAL BUSINESS - III SEMESTER (2021-2023)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME							CREDITS	
			THEORY			PRACTICAL		L	T		P
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MBAI301C	AECC	Advanced Human Values and Professional Ethics	60	20	20	-	-	3	-	-	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical: C - Credit; AECC- Ability Enhancement Compulsory Course

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

COURSE CONTENT

Unit I: Inculcating Values at Workplace

1. Values: Concept, Sources, Essence
2. Classification of Values.
3. Values in Indian Culture and Management: Four False Views, Value Tree
4. Eastern and Western Values; Values for Global Managers

Unit II: Professional Ethics

1. Ethics: Concept, Five P's of Ethical Power, Organisational Tools to Cultivate Ethics
2. Theories of Ethics: Teleological and Deontological
3. Benefits of Managing Ethics in an Organisation
4. Ethical Leadership

Unit III: Indian Ethos and Management Style

1. Indian Ethos and Workplace
2. Emerging Managerial Practices
3. Ethical Considerations in Decision Making and Indian Management Model
4. Core Strategies in Indian Wisdom and Ethical Constraints

Unit IV: Human Behavior – Indian Thoughts

1. Guna Theory
2. Sanskara Theory
3. Nishkama Karma
4. Yoga: Types, Gains; Stress and Yoga

Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

Controller of Examination
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

Joint Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav School of Management

Choice Based Credit System (CBCS) in Light of NEP-2020
MBA-INTERNATIONAL BUSINESS - III SEMESTER (2021-2023)

COURSE CODE	CATEGORY	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*				
MBAI301C	AECC	Advanced Human Values and Professional Ethics	60	20	20	-	-	3	-	-	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical: C - Credit; AECC- Ability Enhancement Compulsory Course

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

Unit V: Spirituality and Corporate World

1. Spirituality: Concept, Paths to Spirituality
2. Instruments to achieve spirituality
3. Vedantic Approach to Spiritual and Ethical Development
4. Indian Spiritual Tradition.

Suggested Readings

1. Kausahl, Shyam L. (2006). *Business Ethics – Concepts, Crisis and Solutions*. New Delhi: Deep and Deep Publications Pvt. Limited
2. Murthy, C.S.V. (2012). *Business Ethics –Text and Cases*. Himalaya Publishing House: Mumbai
3. Chakraborty, S. K. (1999). *Values and Ethics for Organizations*. Oxford university press
4. D.Senthil Kumar and A. SenthilRajan (2008). *Business Ethics and Values*. Himalaya Publishing House: Mumbai

Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

Controller of Examination
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

Joint Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Shri Vaishnav Institute of Technology

Master of Technology (Geo Technical Engineering/ Transportation Engineering/ Water Resource Engineering) SEMESTER I

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		Th	T	P	CRED ITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MTCE2101	BS	System Mathematics & Mathematical Modeling	60	20	20	-	-	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):

Course Objectives: - The course is designed to enable students to: • enhance ability to think in a critical manner • Formulate and develop mathematical arguments in a logical manner • Improve their skills in acquiring new understanding and experience • Acquire an understanding of advanced mathematical analysis.

Course Outcomes (COs):

After the successful completion of this course students will be able to:

- understand different aspects of system analysis.
- transform industrial problems into mathematical models.
- analyse the PERT/ CPM technics and dynamic programming in multistage solution problem with real life applications.
- apply the concept of the probabilities and simple linear regression model to real life examples and sampling plans in production process.

Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

Controller of Examination
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore

Joint Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

COURSE CODE	Category	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MTCE2101	BS	System Mathematics & Mathematical Modeling	60	20	20	-	-	3	0	0	3

Syllabus

Unit I

Concept of a system and system analysis, Mathematical modeling, Introduction to Mathematical Programming Techniques viz. – Linear Programming, non – Linear programming, Dynamic Programming, game theory etc. Transportation problems their formulations and solutions.

Unit II

Linear programming, formulation, Graphical solution, Simplex method, BIG-M & Two Phase methods, Duality in LP, Revised simplex.

Unit-III

Network analysis, CPM-PERT techniques, Project Optimality analysis, Updating Dynamic programming, Stagecoach Problem and its D.P. solution.

Unit-IV

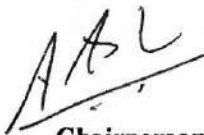
Measures of central tendency, Central Limit theorem, Statistical frequency distributions, Additional and multiplication law of probability, Bayes' Theorem, Binomial, Poisson, Normal, and 't', 'F' & Square Distributions, Tolerance limits, Confidence limits, Test of significance.

Unit-V

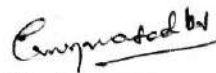
Linear and non-linear Regression analysis, Testing of Hypothesis, Acceptance sampling, Fundamentals of Simulation.

References:

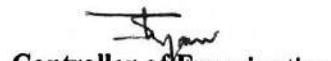
1. Operation Research by Phillips & Ravindran
2. Operation Research by TAHA
3. Probability, Statistics & Decision in Civil Engineering by Benjamin & Cornell
4. Optimization by S.S. Rao


Chairperson

Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Chairperson

Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Controller of Examination
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Joint Registrar

Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) in Light of NEP-2020
M.Tech. Construction Technology and Management
(2022-2024)

COURSE CODE	CATE-GORY	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*					
MTCE 1102	DCC	Advanced Concrete Technology	60	20	20	0	0	2	0	2	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):

On completion of this course the students will be able to

1. To understand the concrete material and their mechanism.
2. To study about the various parameters of fresh concrete
3. To design and developed special types of concrete.

Course Outcomes (COs):

1. Acquire knowledge about cement and admixtures.
2. Understand the characteristics of fresh and hardened concrete.
3. Gain knowledge about different types of concrete.
4. Understand structural health monitoring using NDT.

Syllabus

UNIT I

06 Hrs.

Cement: Different types of cement and their properties; Physical tests of cement; Use of cement
Admixtures: Different types of admixtures, their properties and uses.

UNIT II

06 Hrs.

Properties of Concrete: Properties of fresh and hardened concrete; Workability, strength, durability, fatigue, creep, shrinkage and permeability of concrete.

UNIT III

06 Hrs.

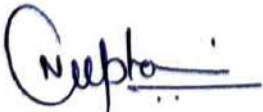
High Performance Concrete: Definition and types of high-performance concrete: Mix Design of high-performance concrete.


UNIT IV


06 Hrs.

Light weight Concrete: Definition and types of light weight concrete: Strength Density ratio; Mix design of light weight concrete.


Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Controller of Examinations
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Joint Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) in Light of NEP-2020
M.Tech. Construction Technology and Management
(2022-2024)

COURSE CODE	CATE-GORY	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*					
MTCE 1102	DCC	Advanced Concrete Technology	60	20	20	0	0	2	0	2	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.

UNIT V

06 Hrs.

Non – Destructive Testing: Non - Destructive testing- introduction; Structural health monitoring using non-destructive testing: Introduction to sensors used in structural health monitoring

Text Books:


1. M.S. Shetty, Concrete Technology, S Chand publication, 2018
2. M.L Gambhir, Concrete Technology, Tata Mc Graw Hill Book Co. 2017

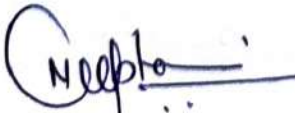
References:

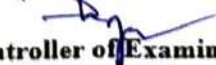
1. M. Neville and J.J. Brooks, Concrete Technology, Prentice Hall, 2 edition, 2012
2. V.M. Malhotra and P.K. Mehta, Pozzolanic and Cementitious Materials: 1 (Advances in Concrete Technology), CRC Press, 2011


List of Experiments:

1. Basic test on cement and aggregate.
2. The assess quality of hardened concrete as per IS standard specification using rebound hammer
3. Non-Destructive testing of concrete sample using Ultra Sonic Test


Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Controller of Examinations
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Joint Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) in Light of NEP-2020
M.Tech. Construction Technology and Management
(2022-2024)

COURSE CODE	CATE-GORY	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*					
MTCE 5101	DCC	Construction Planning and 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):

On completion of this course the students will be able to know the modern trends in project management viz. design, construction, resource utilisation and cost estimation

Course Outcomes (COs):

1. Plan and develop project organization for executing construction projects
2. Prepare work break down plan and estimate resources requirements
3. Learn the techniques used for planning, scheduling and control of construction projects.
4. Apply the techniques for a real-world project and demonstrate the learning

Syllabus

UNIT I

08 Hrs.

Introduction: Phase of project, project management and its relevance, stakeholders of a project, structure of project organization, management levels, and traits of a project manager.

UNIT II

08 Hrs.

Construction Planning: Introduction, activities involved types of project plan, work breakdown structure. Planning terminologies, Critical path method, forward and backward pass, AOA, AON, Precedence Diagramming Method (PDM), PERT, Line of balance,

UNIT III


08 Hrs.

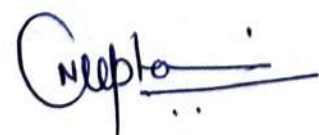
Project scheduling and resource levelling: Introduction, Resource allocation and levelling for unlimited resources, Resource allocation for limited resources, Multi resource allocation, Optimal scheduling.


UNIT IV


08 Hrs.

Project Monitoring and Control: Introduction, Project updating, Time Cost Trade off Analysis and Earned Value Analysis. IT tools for project data updating.


Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Controller of Examinations
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Joint Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) in Light of NEP-2020
M.Tech. Construction Technology and Management
(2022-2024)

COURSE CODE	CATE-GORY	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*					
MTCE 5101	DCC	Construction Planning and 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.

UNIT V

08 Hrs.

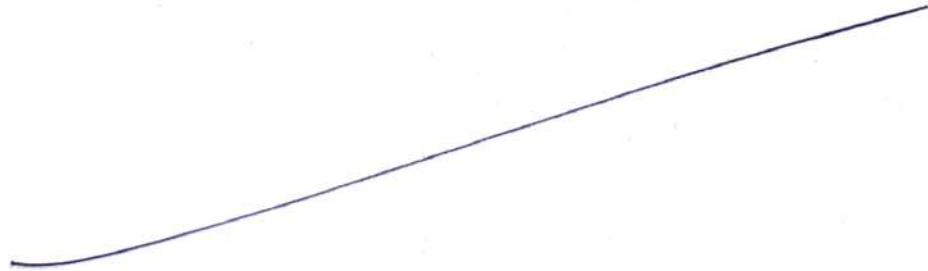
Project Risk Management: Risk register, identification, evaluation, allocation, avoidance and sharing of risk. Delay Analysis and Case Studies.

Text Books:


1. Construction Planning and Management, Ketaki B Dalal, Charotar Publishing House Pvt. Ltd, 2019.
2. Construction Planning and Management, P.S.Gehlot B.B. Dhir, New Age International Publishers, 2018.
3. Construction project management: Theory and practice. Jha, Kumar Neeraj, Pearson Education India, 2015.


References:


1. Construction project scheduling and control. Mubarak, Saleh A, John Wiley & Sons, 2015.
2. Project management for engineering and construction. Oberlender, Garold D. McGraw-Hill Education, 2014, First Edition.
3. Construction project management. Clough, Richard H., Glenn A. Sears; and S. Keoki Sears. John Wiley & Sons, 2000, 4th Edition.




Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Controller of Examinations
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Joint Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) in Light of NEP-2020
M.Tech. Construction Technology and Management
(2022-2024)

COURSE CODE	CATE-GORY	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*					
MTCE 5102	DCC	Construction Economics and Finance	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):

On completion of this course the students will able to impart knowledge on cost analysis, economics accounting, contract bidding and awards.

Course Outcomes (COs):

Student will be able to

1. Prepare income, profit and loss statements and implement construction accounting.
2. Evaluate construction project economics, cost-benefit analysis and Breakeven Analysis.
3. Analyze and evaluate construction risks and uncertainties.
4. Manage working capital and employ budgeting and control.

Syllabus:

UNIT I

07 Hrs.

Engineering economics: Basic principles – Time value of money, Quantifying alternatives for decision making, Cash flow diagrams, Equivalence – Single payment in the future (P/F, F/P), Present payment compared to uniform series payments (P/ A, A/P), Future payment compared to uniform series payments (F/A, A/F), Arithmetic gradient, Geometric gradient.

UNIT II

09 Hrs.

Comparison of alternatives: Present, future and annual worth method of comparing alternatives, Rate of return, Incremental rate of return, Break-even comparisons, Capitalized cost analysis,

UNIT III

08 Hrs.

Benefit-cost analysis. Depreciation, Inflation and Taxes. Equipment economics: Equipment costs, Ownership and operating costs, Buy/ Rent/Lease options, Replacement analysis.

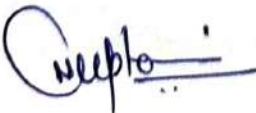
UNIT IV

08 Hrs.

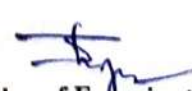
Cost estimating: Types of Estimates, Approximate estimates – Unit estimate, Factor estimate, Cost indexes, Parametric estimate, Life cycle cost.



Chairperson
Board of Studies

Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Chairperson
Faculty of Studies

Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Controller of Examinations
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Joint Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) in Light of NEP-2020
M.Tech. Construction Technology and Management
(2022-2024)

COURSE CODE	CATE-GORY	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*					
MTCE 5102	DCC	Construction Economics and Finance	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.

UNIT V

08 Hrs.


Financial management: Construction accounting, Chart of Accounts, Financial statements – Profit and loss, Balance sheets, Financial ratios, Working capital management.


Text Books:


1. Danny Myers, Construction Economics: A New Approach, Taylor and Francis Publisher, 2016.
2. Bose, D. C., Fundamentals of Financial management, 2nd ed., PHI, New Delhi, 2010.
3. Prasanna Chandra, Projects: Planning, Analysis, Selection, Financing, Implementation and Review, Tata McGraw – Hill Education, 2009.
4. Peurifoy, R. L. and Oberlender, G. D., Estimating Construction Costs, 5th ed., Tata McGraw-Hill, New Delhi, 2004.


References:

1. Vazirani and Chandola, Construction Accounting and Finance, Dhanpat Rai Publications, 2011.
2. Ofori, G, The Construction Industry Aspects of its Economics and Management, Singapore University Press, 1990.
3. 2. Coombs W.E and W.J Palmer, Construction and Finance Management , Mc-Graw-Hill New Delhi.


Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Controller of Examinations
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Joint Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) in Light of NEP-2020
M.Tech. Construction Technology and Management
(2022-2024)

COURSE CODE	CATE-GORY	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*				
MTCE 5104	DCC	Construction Project Management Software Laboratory	0	0	0	0	50	0	0	4	2

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):

The objective of this course is to study and understand the various fundamentals and process involve in construction project management using Microsoft project and Primavera software.

Course Outcomes (COs):

At the end of the course student will able to,


1. Prepare work break down structure of project and estimate resources required in a construction project.
2. Develop precedence diagram and network diagrams
3. Implement resource allocation and levelling using MSP and Primavera.
4. Perform simulation of construction projects using CM tool and demonstrate learnings


Syllabus


1. Introduction to MS Project (MSP) software and development of work breakdown structure of a project in MSP software.
2. Project planning, Scheduling and resource allocation using MSP software
3. Introduction to Primavera P6 software
4. Development of work breakdown structure of a project in Primavera software
5. Project planning, Scheduling and resource allocation using Primavera software
6. Comparative analysis between MSP and Primavera.
7. Case studies to implement the MSP and Primavera software.


Text Books:

1. The Project Managers Guide to Microsoft Project 2019, Cicala, G., Apress, Berkeley, CA 2020.
2. Manual for MS Project 2019 Step by Step, Lewis, C., Chatfield, C., & Johnson, T., Microsoft Press, 2019, First Edition.
3. Project Planning and Control Using Primavera P6, Harris, P.E., Eastwood Harris Pty Ltd, 2010.


Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Controller of Examinations
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Joint Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) in Light of NEP-2020
M.Tech. Construction Technology and Management
(2022-2024)

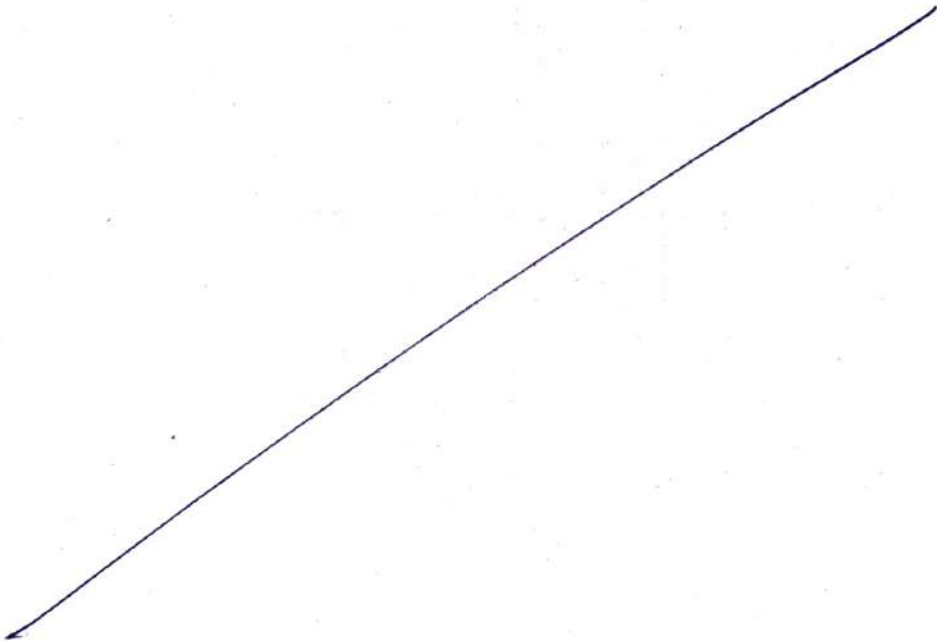
COURSE CODE	CATE-GORY	COURSE NAME	TEACHING & EVALUATION SCHEME									
			THEORY			PRACTICAL			L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*					
MTCE 5104	DCC	Construction Project Management Software Laboratory	0	0	0	0	50	0	0	4	2	


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

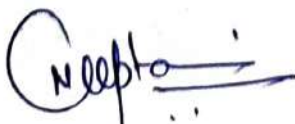
***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.


References:


1. Project management body of knowledge (pmbok® guide), Guide, A., In Project Management
2. Institute, USA, 2008, 4th Edition.




Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Controller of Examinations
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Joint Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore