

Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Shri Vaishnav Institute of Technology

Master of Technology in Civil (WRE, CTM, Transportation, Geotechnical) SEMESTER I

				TEA	CHING	& EV	ALUAT	ION S	CHE	ME	
			THEORY				ACTIC AL	Th	T	P	CREDITS
COURSE CODE	Category	COURSE NAME	END SEM University Exam Two Term Exam			END SEM	Teachers Assessment*				
MTMACE 101	BS	Advanced Mathematics (CE)	60	20	20	- 1	1	3	0	0	3

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

Course Educational Objectives (CEOs):

To introduce the students to advanced mathematics.

Course Outcomes (COs):

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

- A. understand the concept of vector space, subspace, basis, dimensions and their properties.
- B. find solution/numerical solution of PDE.
- C. explain fundamental principles of probability theory.
- D. understand the concept of Markov process and Queuing theory.
- E. analyze and solve linear programming models of real life situations.

Syllabus

UNIT – I

Linear Algebra

Vector Space, Subspace, Basis & dimensions, Change of basis, Linear transformation, Matrix representation of Linear transformation.

UNIT - II

Numerical Solution of Partial Differential Equations:

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Vishwavidyalaya, Indore	Vishwavidyalaya, Indore		

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



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	Category COURSE NAME		Т	HEORY		PRAC'	ΓICAL	Th	Т	P	CREDITS
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MTMACE 101	BS	Advanced Mathematics (CE)	60	20	20	-	-	3	0	0	3

Classification of second order equations, Finite difference approximation to derivatives, Elliptic equations, Solution of Laplace's equation, Solution of Poisson's equations, Parabolic equations, Solutions of Heat equations, Hyperbolic equations.

UNIT - III

Probability & Statistics:

Probability, Compound probability, Discrete random variable, Binomial and Poisson distribution, Continuous random variable, Normal distribution, Sampling distribution, Theory of hypothesis.

UNIT - IV

Stochastic Process & Queuing Theory:

Introduction of random or Stochastic processes, Markov processes, Markov chain, Queuing theory: M/M/1: $\infty/\infty/FCFS$, M/M/1: $N/\infty/FCFS$.

UNIT - V

Linear programming:

Introduction Linear programming problem, Matrix form of LPP, Basic solutions and Basic feasible solution, Graphical solution, Simplex method, BIG-M (penalty method) &,Two Phase methods, Duality in LPP.

Texts:

- 1. Higher Engg. Mathematics: B. S. Grewal, Khanna Publishers, Delhi
- 2. Higher Engg. Mathematics: E. Kreyzig, John Wiley & Sons (Asia) Pvt. Ltd.
- 3. Operation Research: S. D. Sharma, Kedar Nath and Ram Nath, Delhi.
- 4. Probability, Random variables & Random processes: Schaum's outlines.
- 5. Stochastic processes: J. Medhi, New age international publishers.
- 6. Calculus of finite differences and Numerica Analysis: Gupta and Malik.
- 7. Operation Research by Phillips & Ravindran.
- 8. Operation Research by TAHA.
- 9. Probability, Statistics & Decision in Civil Engineering by Benjamin & Cornell.



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore Shri Vaishnav School of Management

Choice Based Credit System (CBCS) in Light of NEP-2020 MBA – Hospital and Health Management - III SEMESTER (2021-2023)

MBAI301C ADVANCEDHUMAN VALUES AND PROFESSIONAL ETHICS

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			TH	EORY		PRACTIC	CAL					Ī
COURSE CODE	CATEGORY	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	Т	P	CREDITS	
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

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.

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

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Choice Based Credit System (CBCS) in Light of NEP-2020 MBA – Hospital and Health Management - III SEMESTER (2021-2023)

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COURSE CODE	CATEGORY	COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	Т	P	CREDITS
MBAI301C	AECC	Advanced Human Values and Professional Ethics	60	20	20	ı	-	3	-	-	3

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

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

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.

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MBAI301C	AECC	Advanced Human Values and Professional Ethics	60	20	20	-	-	3	-	ı	3

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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

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(2021-2023)

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		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	т	P	CREDITS		
MTCE 2102	DCC	Material Science and Concrete Technology	60	20	20	30	20	2	1	2	4	

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

Course Educational Objectives (CEOs):

To gain the discrete knowledge of concrete and its technology, subject involves theoretical and practical approaches which helps in exploring the different kinds of concrete & its properties, so that students can understand the nature and their significance in the field of transportation Engineering

Course Outcomes (COs):

- 1. To identify the functional role of ingredients of concrete and apply this knowledge to mix design philosophy
- 2. To acquire and apply fundamental knowledge in the fresh and hardened properties of concrete
- 3. To evaluate the effect of the environment on service life performance, properties and failure modes of structural concrete and demonstrate techniques of measuring the Non-Destructive Testing of concrete structure
- 4. To develop an awareness of the utilization of waste materials as novel innovative materials for use in concrete

Syllabus

UNIT I

08 Hrs.

Solid Materials: Structure of solid materials, atoms and bonds, inter-atomic and intermolecular bonds, crystals; Classification of solids; Mechanism of elastic and plastic actions in tension, compression, pure bending, and torsion; Elastic and inelastic properties of solids; Dislocations; Strain hardening; Triaxial stress.

UNIT II

08 Hrs.

Creep: Components of creep fracture; Analysis of creep curves; Method of predicting creep strength; Designing of creep

Fatigue: Fatigue loading, mechanism, factors affecting creep fatigue properties; S.N. diagrams Hardness: Relation between hardness of different atomic structure measurement of hardness with other mechanical properties

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(2021-2023)

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CODE		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	т	Р	CREDITS	
MTCE 2102	DCC	Material Science and Concrete Technology	60	20	20	30	20	2	1	2	4

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

UNIT III

09 Hrs.

Concrete Materials: Cement, manufacture, composition, structure, hydrated cement paste, heat of hydration, test for physical properties, different types of cements, and properties of aggregates Fresh Concrete: Workability, factors affecting, testing, vibration analysis of fresh concrete Strength of Concrete: Nature of strength, factors affecting, Autogenous heating, maturity of concrete, fatigue strength, impact strength.

UNIT IV

09 Hrs.

Elasticity Shrinkage and Creep: Modulus of elasticity; Dynamic modulus; Poisons ratio; Early volume changes; Swelling, shrinkage, creep factors influencing creep nature; Rheological models; Effects and design for creep.

Durability of Concrete: Permeability of concrete; Thermal properties of concrete; Resistance of concrete to fire; Resistance to abrasion, electrical properties, acoustic properties, chemical attack.

UNIT V

08 Hrs.

Testing of Hardened Concrete: Destructive and nondestructive testing of concrete; tests on composition of hardened concrete; variation of test results, accelerated testing of concrete

Mix Design: Basic consideration, Factors in choice of mix Proportion; Methods of mix design.

I.B.C. Murdock; A.C.I. Method based on Road note No. 4

Text Books:

- M.S. Shetty, Concrete Technology, S Chand publication, 2006
- 2. M. Neville and J.J. Brooks, Concrete Technology Prentice Hall, 2 edition, 17 June 2010
- 3. M.L Gambhir, Concrete Technology, Tata Mc Graw Hill Book Co. 2010

Reference Books:

- 1. R.K. Bansal, A Textbook of Strength of Materials, Laxmi Publications; Sixth edition, 2018
- Pierre-Claude Aïtcin and Robert J Flatt, Science and Technology of Concrete Admixtures, Woodhead Publishing; 1 edition, 2015.

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(2021-2023)

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COURSE	CATE	COURSE NAME	TI	HEORY		PRACT	ICAL			-	
CODE	CATE- GORY COURSE NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	Т	P	CREDITS	
MTCE 2102	DCC	Material Science and Concrete Technology	60	20	20	30	20	2	1	2	4

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

List of Practical:

- 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

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(2021-2023)

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CODE		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	т	P	CREDITS	
MTCE 2103	DCC	Soil Mechanics in Highway Engineering	60	20	20	30	20	2	0	2	3

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

Course Educational Objectives (CEOs):

- 1. To gain experience regarding the determination of properties of different types of soils and their behavior.
- 2. To provide an opportunity to learn how to measure the shear strength of the soil and its importance
- 3. To impart knowledge about the lateral earth pressure

Course Outcomes (COs):

- 1. Determine the index properties of the soil
- 2. To understand classification of soil.
- 3. Identify the suitability of the soil for different foundations

Syllabus:

UNIT I

06 Hrs.

Classification of Soils: IS classifications; AASHO classifications; CAA classifications CBR and Group Index: Laboratory and field determination of CBR value; Effect of soaking; Modulus of sub-grade reaction

UNIT II

06 Hrs.

Compaction: Theory of compaction, factors affecting compaction, effect of compaction on soil, properties, measurement of field compaction and field methods of compaction and control.

UNIT III

06 Hrs.

Bearing Capacity: Skemptons's analysis; Plate Load Test; Penetration Tests; Genera bearing capacity equation; Effect Of water table on bearing capacity

Stability of slopes: Types of slope failure; Bishop's slope stability analysis; Stability number

UNIT IV

06 Hrs.

Earth Pressures: Classical earth pressure theories; Effect of earth pressure on highway structures

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COURSE	CATE-	T)	T	HEORY		PRACT	ICAL				
CODE	GORY	COURSE NAME	END SEM University Exam	Тwо Тегт Ехат	Teachers Assessment*	END SEM University Exam	Teachers	L	т	P	CREDITS
MTCE 2103	DCC	Soil Mechanics in Highway Engineering	60	20	20	30	20	2	0	2	3

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

UNIT V

06 Hrs.

Soil Stabilization: Mechanics of stabilization; Mechanical, electrical, cement, lime, bitumen and chemical stabilization

Drainage: Vertical sand drains; Surface and sub-surface drainage for highways; Drainage for hill roads

Text Books:

- 1. Singh Alam, Soil Engineering in Theory and Practice, Asia Publishing House, 2012
- 2. Khanna S.K. and Justo, C.G., Highway Engineering, Khanna Publishers, Delhi, 2012
- 3. Punmia B.C., Soil Mechanics and Foundation Engineering, Laxmi Publications, 2016

Reference Books:

- 1. Venkat Ramaiah, Soil Mechanics, New Age International Pvt Ltd Publishers, 2015
- 2. IRC-49-1973, Recommended Practice for the Pulverization of B.C. for lime Stabilization
- 3. IRC-50-1973, Recommended Design for the use of Cement-Modified Soil in Road Constructions.
- 4. IRC-51-1992, Guideline for the use of Soil Lime Mixing Road Construction

List of Practicals:

- 1. Determination of the natural content of the given soil sample.
- 2. To determine the Density of soil by Core Cutter method
- 3. To determine the specific gravity of soil fraction passing 4.75 mm I.S sieve by density bottle.
- 4. To determine the particle size distribution of soil by Sieve Analysis.
- 5. To determine plastic limit, liquid limit, shrinkage limit of given soil sample.
- 6. To determine the shearing strength of the soil using the direct shear apparatus.
- 7. To find shear strength of a given soil specimen by Vane shear test.
- 8. To determine bearing capacity of soil using CBR Test

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(2021-2023)

			TEACHING &EVALUATION SCHEME								
COURSE	CATE-	COURSE NAME	Т	HEORY		PRACT	ICAL				
CODE	GORY		END SEM University Exam	Two Term Exam	Teachers sssessment*	END SEM University Exam	Teachers ssessment*	L	т	P	CREDITS
MTCE 2104	DCC	Traffic Engineering	60	20	20	0	0	2	1	0	3

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

Course Educational Objectives (CEOs):

The aim of this course is to teach students about the traffic characteristic, traffic studies, highway capacity studies in traffic engineering

Course Outcomes (COs):

At the completion of the course the students will be able to

- 1. Understand the traffic characteristic.
- 2. Perceive the knowledge about traffic flow models.
- 3. Get knowledge about component parking and lighting.
- 4. Get knowledge about accident studies and highway capacity.

Syllabus:

UNIT I

08 Hrs.

Road User and Vehicle Characteristics: Road user; Vehicle Characteristics

Surveys: Different types of survey and studies; Speed and volume study; Parking survey, types of parking, parking meters, design of parking places Accident surveys.

UNIT II

08 Hrs. Traffic Flow Models: Elements of traffic flow; Fundamental diagram of road traffic; Relationships between the variables; Greenshield's macroscopic stream model and microscopic flow models based on response; Stimulus approach, hydrodynamic analogy, queuing model.

UNIT III

08 Hrs.

Non-signalized Intersections: At grade and grade separated intersection; Channelization warrants; Weaving action at intersections; Delay models; Theoretical models for determining weaving capacity; Design of intersection

UNIT IV

08 Hrs.

Signalized Intersections: Different types of signals; Webster analysis; IRC method of signal design; Determination of effective green time; Optimum cycle time and timing diagram; Effect of left and right turning and heterogeneity; P.C.U. concepts; Ultimate capacity of whole intersection;

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(2021-2023)

COURSE CODE	CATE- GORY	COURSE NAME	TEACHING &EVALUATION SCHEME								
			THEORY			PRACTICAL					
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	т	P	CREDITS
MTCE 2104	DCC	Traffic Engineering	60	20	20	0	0	2	1	0	3

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

Delay calculation and optimum cycle length; QUE lengths at the commencement of green period; Coordination of traffic signals

UNIT V

08 Hrs.

Traffic Management: One way street system, two-way street system; Different traffic management methods; Flow operation; Closing side streets; Exclusive bus lanes; Intelligent vehicle system; Motor vehicle system

Text Books:

- 1. Louis J. Pignataro, Traffic Engineering: Theory and Practice, Prentice-Hall.
- 2. Kadiyali L.R., Traffic Engineering and Transport Planning, Khanna Publishers, 2010
- 3. IRC-65-1976, Recommended Practice for Traffic Rotaries.
- IRC-SP-12-1973, Tentative Recommendation on the Provision of Parking space for urban area.

Reference Books:

- 1. D.R.Drew, Traffic Flow Theory, McGraw-Hill Book Company
- Wohl & Martin, Traffic System Analysis for Engineering & Planners, McGraw-Hill Book Company

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