

Written by Administrator

Saturday, 24 October 2009 06:45 - Last Updated Sunday, 17 January 2010 18:16

Teaching Dept.

Teaching Hrs / Week

Examination

Theory

Practical

Duration

(Hrs)

Marks

IA

Written by Administrator

Saturday, 24 October 2009 06:45 - Last Updated Sunday, 17 January 2010 18:16

Theory / Practical

Total

1

06 AL 51

Management		& Entrepreneurship
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Any Dept.

04

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03

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Saturday, 24 October 2009 06:45 - Last Updated Sunday, 17 January 2010 18:16

25

100

125

2

06 CV 52

Design of structures RCC

Civil

04

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03

25

100

125

3

06 CV 53

Structural Analysis – II

Civil

04

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03

25

100

125

4

06 CV 54

Geotechnical Engineering. – I

Civil

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04

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03

25

100

125

5

06 CV 55

Hydrology and Water Resources Engineering

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Civil

04

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03

25

100

125

6

06 CV 56

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Transportation Engineering – I

Civil

04

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03

25

100

125

7

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06 CVL 57

Hydraulics and Hydraulic Machinery Lab.

Civil

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03

03

25

50

75

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8

06 CVL 58

Computer Aided Design Lab.

Civil

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03

03

25

50

75

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Total

24

06

24

200

700

900

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V SEMESTER

Management & Entrepreneurship

Subject Code

: 06AL51

IA Marks

: 25

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No. of Lecture Hours/Week

: 04

Exam Hours

: 03

Total No. of Lecture Hours

: 52

Exam Marks

: 100

PART - A

Management

Unit - 1

MANAGEMENT: Introduction – Meaning – nature and characteristics of Management, Scope and functional areas of management – Management as a science, art or profession – Management & Administration – Roles of Management, Levels of Management, Development of Management Thought – early management approaches – Modern management approaches.

□□□□□□□□□□ **7 Hours**

Unit - 2

Planning: Nature, importance and purpose of planning process - objectives - Types of plans (Meaning only) - Decision making - Importance of planning - steps in planning & planning premises - Hierarchy of plans.

□□□□□□□□□□ **6 Hours**

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□□□□□□□□ **7 Hours**

PART - B

Entrepreneurship

Unit - 5

Entrepreneur: Meaning of Entrepreneur, Evolution of Concept, Functions of Entrepreneur, Types of Entrepreneur, Entrepreneur – An emerging class. Concept of Entrepreneurship – Evolution of Entrepreneurship, Development of Entrepreneurship, Stages in entrepreneurial process, Role of Entrepreneurs in Economic Development; Entrepreneurship in India; Entrepreneurship – its Barriers.

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□□□□□□□□□□ **7 Hours**

Unit - 6

Small Scale Industry: Definition; Characteristics; Need and rationale: Objectives, Scope, role of SSI in Economic Development. Advantages of SSI. Steps to start an SSI – Government policy towards SSI, Different Policies of SSI., Government Support on SSI., during 5 year plans. Impact of Liberalization, Privatisation, Globalization on SSI. Effect of

Identification, Project Selection, Project Report, Need and significance of Project, Contents, formulation, Guidelines by Planning Commission for Project Report, Network Analysis, Errors of Project Report, Project Appraisal. Identification of Business Opportunities. Market Feasibility Study: Technical Feasibility Study, Financial Feasibility Study & Social Feasibility Study.

□□□□□□□□ **6 Hours**

TEXT BOOKS:

- 1. Principles of Management – P.C. Tripathi, P.N. Reddy, Tata McGraw Hill.**
- 2. Dynamics of Entrepreneurial Development & Management – Vasant Desai – Himalaya Publishing House**
- 3. Entrepreneurship Development – Small Business Enterprises – Poornima M. Charantimath – Pearson Education – 2006.**

REFERENCE BOOKS:

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Exam Hours

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UNIT - 2

PRINCIPLES OF LIMIT STATE DESIGN AND ULTIMATE STRENGTH OF R.C. SECTION: General aspects of Ultimate strength, Stress block parameters for limit state of collapse, Ultimate flexural strength of singly reinforced rectangular sections, Ultimate flexural strength of doubly reinforced rectangular sections, Ultimate flexural strength of flanged sections, Ultimate shear strength of RC sections, Ultimate torsional strength of RC sections, Concepts of development length and anchorage, Analysis examples of singly reinforced, doubly reinforced, flanged sections, shear strength and development length.

7 Hours

UNIT - 3

FLEXURE AND SERVICEABILITY LIMIT STATES: General Specification for flexure design of beams-practical requirements, size of beam, cover to reinforcement-spacing of bars. General aspects of

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UNIT - 8

DESIGN OF STAIR CASES: General features, types of stair case, loads on stair cases, effective span as per IS code provisions, distribution of loading on stairs, Design of stair cases.

6 Hours

reference BOOKS:

- 1. Design of Reinforced concrete structures - N. Krishnaraju, -
(IS: 456 – 2000) 3
rd
edition CBS publishers, New Delhi.**

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IA Marks

: 25

No. of Lecture Hours/Week

: 04

Exam Hours

: 03

Total No. of Lecture Hours

: 52

Exam Marks

plane frames (non-sway) with kinematic redundancy less than/equal to three. (Members to be axially rigid)

□□□□□□□□8 Hours

□

Unit - 3

Moment Distribution Method: Introduction, Definition of terms- Distribution factor, Carry over factor, Development of method and Analysis of beams and orthogonal rigid jointed plane frames (non-sway) with kinematic redundancy less than/equal to three. (Members to be axially rigid)

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□□□□□□□□8 Hours

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Unit - 4

Sway Analysis: Analysis of rigid jointed plane frames (sway, members assumed to be axially rigid and kinematic redundancy

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3) by slope deflection and moment distribution methods.

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4 Hours

PART - B

Unit - 5

Kanis Methods: Introduction, Basic Concept, Analysis of Continuous beams and Analysis of rigid jointed non-sway plane frames.

Analysis of continuous beams and rigid jointed non-sway plane frames by Kanis method.

6 Hours

Unit - 6

Flexibility Matrix Method of Analysis: Introduction, Development of flexibility matrix for plane truss element and axially rigid plane framed structural elements and

Analysis of plane truss and axially rigid plane frames by flexibility method with static indeterminacy

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3.

Analysis of plane truss and axially rigid plane frames by flexibility method with static indeterminacy

Analysis of plane truss and axially rigid plane frames by flexibility method with static indeterminacy

7 Hours

Unit - 7

Stiffness Matrix Method of Analysis: Introduction, Development of stiffness matrix for plane truss element and axially rigid plane framed structural elements.

And Analysis of plane truss and axially rigid plane frames by stiffness method with kinematic indeterminacy

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3.

Analysis of plane truss and axially rigid plane frames by stiffness method with kinematic indeterminacy

Unit - 8

Basic Principles of Dynamics: Basic principles of Vibrations and causes, periodic and aperiodic motion, harmonic and non-harmonic motion. Period and frequency.

1. Indeterminate Structural Analysis- J. Sterling Kinney, Oxford and IBH Publishing Co.

1. **Elementary Structural Analysis- Norris C.H., Wilbur J.B., McGraw Hill International Book Edition.**

2. **Advanced Structural Analysis- Ashok K. Jain,, Nem Chand & Bros., Roorkee, India.**

3. **Structural Analysis- D.S. Prakash Rao,, A Unified Approach, University Press.**

4. **Intermediate Structural Analysis- C.K. Wang,, McGraw Hill Publications.**

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GEOTECHNICAL ENGINEERING – I

Subject Code

: 06CV54

IA Marks

: 25

No. of Lecture Hours/Week

: 04

Exam Hours

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: 03

Total No. of Lecture Hours

: 52

Exam Marks

: 100

Part - A

UNIT- 1

8 Hours

UNIT - 4

FLOW OF WATER THROUGH SOILS: Darcy's law- assumption and validity, coefficient of permeability and its determination (laboratory and field), factors affecting permeability, permeability of stratified soils, Seepage velocity, Superficial velocity and coefficient of percolation, effective stress concept-total pressure and effective stress, quick sand phenomena, Capillary Phenomena

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.....**7**
Hours

PART - B

UNIT - 5

UNIT- 8

DETERMINATION OF CONSOLIDATION AND SHEAR PROPERTIES OF SOIL: Laboratory one dimensional consolidation test, Determination of consolidation characteristics of soils-compression index, and coefficient of consolidation, determination of coefficient of consolidation by square root of time fitting method, logarithmic time fitting method and rectangular hyperbola method. Measurement of shear parameters- Direct shear test, unconfined compression test, Triaxial compression test and vane shear test, Test under different drainage conditions.

□□□□□□□□6 Hours

TEXT BOOKS:

1.□□□□□□ Principles of Geotechnical Engineering; Braja, M. Das (2002), Fifth Edition, Thomson Business Information India (P) Ltd., India

2.□□□□□□ Soil Engineering in Theory and Practice- Alam Singh and Chowdhary G.R. (1994), CBS Publishers and Distributors Ltd., New Delhi.

3. Soil Mechanics and Foundation Engg.- Punmia B.C. (2005), 16th

Edition Laxmi Publications Co. , New Delhi.

References Books:

1. Foundation Analysis and Design- Bowles J.E. (1996), 5th Edition, McGraw Hill Pub. Co. New York.

2. Soil Mechanics and Foundation Engineering- Murthy V.N.S. (1996), 4th Edition, UBS Publishers and Distributors, New Delhi.

3. Basic and Applied Soil Mechanics- Gopal Ranjan and Rao A.S.R. (2000), New Age International (P) Ltd., Newe Delhi.

4. Geotechnical Engineering- Venkatrahmaiah C. (2006), 3rd Edition New Age International (P) Ltd., Newe Delhi.

5. Soil Mechanics- Craig R.F. (1987), “ Van Nostrand Reinhold Co. Ltd.

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: 25

No. of Lecture Hours/Week

: 04

Exam Hours

: 03

Total No. of Lecture Hours

: 52

Exam Marks

: 100

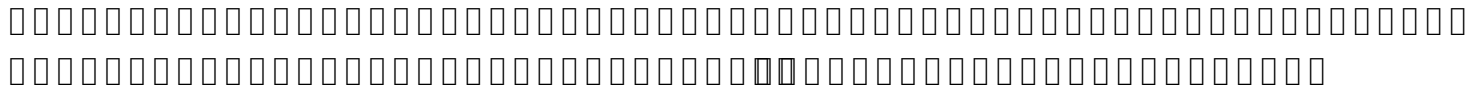
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6 Hours

UNIT - 6

RESERVOIR SEDIMENTATION: Introduction. Process of erosion. Factors affecting erosion. Sediment yield. Reservoir Sediment control. Determination of Sediment Yield at a reservoir site (Using sample recorder).



6 Hours

UNIT - 7

TEXT BOOKS:

- 1. Engineering Hydrology- Subramanya K, Tata McGraw Hill, New Delhi.**
- 2. A Text Book of Hydrology- Jayarami Reddy, Lakshmi Publications, New Delhi.**
- 3. Hydrology- H.M. Raghunath, Wiley Eastern Publication, New Delhi.**

REFERENCE BOOKS:

- 1. Hand Book of Hydrology- Ven Te Chow**
- 2. Hydrology and Water Resources Engineering- R.K. Sharma and Sharma,, Oxford and IBH, New Delhi.**
- 3. Hydrology and Water Resources Engineering- Garg S.K., Khanna Publishers, New Delhi.**
- 4. Applied Hydrology- Linsley, Kohler and Paulhus, Wiley Eastern Publication, New Delhi.**
- 5. Ground Water Hydrology- Todd, Wiley Eastern Publication, New Delhi.**

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TRANSPORTATION ENGINEERING – I

Subject Code

: 06CV56

IA Marks

: 25

No. of Lecture Hours/Week

: 04

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Exam Hours

: 03

Total No. of Lecture Hours

: 52

Exam Marks

: 100

Part - A

Unit - 1

Principles of Transportation Engineering: Importance of Transportation. Different modes of transportation, characteristics and comparison of different modes. Jayakar committee recommendations and implementation.

3 Hours

Unit - 2

Highway Development and Planning: Road Types and classification, road patterns. Planning surveys, Master plan - saturation system of road planning, phasing road development programme Road Development in India, 1st, 2nd & 3rd 20-year road development plan and problems only on 3rd

20-year road plan. Present scenario of road development in India (NHDP & PMGSY) and in Karnataka (KSHIP & KRDCL) – problems on best alignment among alternate proposals and phasing, Road Development Plan Vision 2021.

06 Hours

1. **Relevant IRC codes**
2. **Principles of Transportation Engineering- Partha Chakra Borthy, Prentice-Hall.**
3. **Specifications for Roads and Bridges- MoRT&H, IRC, New Delhi (2001).**

HYDRAULICS AND HYDRAULIC MACHINERY LABORATORY

Subject Code

: 06CVL57



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Saturday, 24 October 2009 06:45 - Last Updated Sunday, 17 January 2010 18:16

IA Marks

: 25

No. of Practical Hours/Week

: 03

Exam Hours

: 03

Total No. of Practical Hours

: 42

Exam Marks

: 50

Ex 1: Calibration of V-notch

Ex 2: Calibration of rectangular or Trapezoidal notch

Ex 3: Calibration of Ogee weir

Ex 4: Calibration of Broad crested weir

Ex 5: Calibration of Venturi flume.

Ex 6: Calibration of Venturi meter.

Ex 7: Determination of Darcy's friction factor for a straight pipe.

Ex 8: Determination of minor loss constants (Bend, Sudden contraction, sudden expansion)

Ex 9: Determination of vane coefficient for flat and hemispherical vanes.

Ex 10: Determination of hydraulic coefficient of a vertical orifice.

Ex 11: Performance tests on a single stage or multi stage centrifugal pump (constant speed)

Ex 12: Performance tests on a Pelton wheel

Ex 13: Performance tests on Francis or Kaplan turbine.

Ex 14: Demonstration of working of Rain gauges.

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: 03

Exam Hours

: 03

Total No. of Practical Hours

: 42

Exam Marks

: 50

1. AUTOCAD

i) Propped cantilever beams

ii) Fixed beams

iii) Continuous beams

iv) 2D Portal frames-single storied and multistoried

6 Hours

3. Use of excel in Civil Engineering Problems

Use of spread sheet for the following civil engineering problems

i) SFD and BMD for Cantilever and simply supported beam

subjected to uniformly distributed and uniformly varying load acting throughout the span

ii) Design of singly reinforced and doubly reinforced rectangular beams

iii) Computation of earthwork

iv) Design of horizontal curve by offset method

v) Design of super elevation

12 Hours

REFERENCE BOOKS:

1. Computer Aided Design Laborator- Dr M.N.Shesha Prakash,

Dr.G.S.Suresh, Lakshmi Publications

2. CAD Laboratory- M.A.Jayaram, D.S.Rajendra Prasad- Sapna Publications

3. AUTOCAD 2002- Roberts JT, -BPB publications

4. AUTOCAD 2004- Sham Tickoo, A beginner's Guide, Wiley Dreamtech India Pvt Ltd.,

5. Learning Excel 2002- Ramesh Bangia, -Khanna Book Publishing Co (P) Ltd.,

6. Microsoft Excel- Mathieson SA, Starfire publishers

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