

VEL TECH MULTI TECH
Dr. RANGARAJAN Dr. SAKUNTHALA
ENGINEERING COLLEGE

(An ISO 9001: 2008 Certified Institution)
(Owned by 'VEL Shree R. Rangarajan
Dr. Sagunthala Rangarajan Educational Academy)

(Approved by AICTE, New Delhi
&
Govt. of Tamil Nadu and affiliated to Anna University)



WEEKLY SCHEDULE
VIII - SEMESTER
2010-2015

4 Year Degree Course in Engineering

CIVIL ENGINEERING

42, Avadi – Alamathi Road,

Chennai – 600062

Telefax – 044-26841061

E-mail: veltech@md3.vsnl.net.in

Web site: www.vel-tech.org

WEEK DETAILS**YEAR 2015**

| S.NO | WEEKS | DATE | |
|-------------|----------------|-----------------|-----------------|
| | | FROM | TO |
| 1 | WEEK 1 | 02.01.15 | 09.01.15 |
| 2 | WEEK 2 | 12.01.15 | 16.01.15 |
| 3 | WEEK 3 | 19.01.15 | 23.01.15 |
| 4 | WEEK 4 | 27.01.15 | 30.01.15 |
| 5 | WEEK 5 | 02.02.15 | 06.02.15 |
| 6 | WEEK 6 | 09.02.15 | 13.02.15 |
| 7 | WEEK 7 | 16.02.15 | 20.02.15 |
| 8 | WEEK 8 | 23.02.15 | 27.02.15 |
| 9 | WEEK 9 | 02.03.15 | 06.03.15 |
| 10 | WEEK 10 | 09.03.15 | 13.03.15 |
| 11 | WEEK 11 | 16.03.15 | 20.03.15 |
| 12 | WEEK 12 | 23.03.15 | 27.03.15 |
| 13 | WEEK 13 | 30.03.15 | 01.04.15 |
| 14 | WEEK 14 | 06.04.15 | 10.04.15 |
| 15 | WEEK 15 | 13.04.15 | 17.04.15 |
| 16 | WEEK 16 | 20.04.15 | 24.04.15 |
| 17 | WEEK 17 | 27.04.15 | 30.04.15 |

VIII SEMESTER

CONTENTS

| S. NO | SUBJECTCODE | SUBJECT NAME |
|-------|-------------|---|
| 01 | CE 2451 | Engineering Economics And Cost Analysis |
| 02 | CE 2041 | Bridge Structures |
| 03 | CE 2071 | Repair And Rehabilitation Of Structures |

VIII SEMESTER

EXAM DETAILS

UNIT TEST SCHEDULE

UNIT TEST –I

| Sl. NO | DATE | SUB. CODE | SUBJECT |
|--------|----------|-----------|---|
| 1 | 22.01.15 | CE 2451 | Engineering Economics And Cost Analysis |
| 2 | 23.01.15 | CE 2045 | PREFABRICATED STRUCTURES |
| 3 | 24.01.15 | CE 2071 | Repair And Rehabilitation Of Structures |

UNIT TEST –II

| Sl. NO | DATE | SUB. CODE | SUBJECT |
|---------------|-------------|------------------|---|
| 1 | 11.02.15 | CE 2451 | Engineering Economics And Cost Analysis |
| 2 | 12.02.15 | CE 2045 | PREFABRICATED STRUCTURES |
| 3 | 13.02.15 | CE 2071 | Repair And Rehabilitation Of Structures |

UNIT TEST –III

| Sl. NO | DATE | SUB. CODE | SUBJECT |
|---------------|-------------|------------------|---|
| 1 | 03.03.15 | CE 2451 | Engineering Economics And Cost Analysis |
| 2 | 04.03.15 | CE 2041 | Bridge Structures |
| 3 | 05.03.15 | CE 2071 | Repair And Rehabilitation Of Structures |

UNIT TEST –IV

| Sl. NO | DATE | SUB. CODE | SUBJECT |
|---------------|-------------|------------------|---|
| 1 | 23.03.15 | CE 2451 | Engineering Economics And Cost Analysis |
| 2 | 24.03.15 | CE 2041 | Bridge Structures |
| 3 | 25.03.15 | CE 2071 | Repair And Rehabilitation Of Structures |

UNIT TEST –V

| Sl. NO | DATE | SUB. CODE | SUBJECT |
|---------------|-------------|------------------|---|
| 1 | 13.04.15 | CE 2451 | Engineering Economics And Cost Analysis |
| 2 | 15.04.15 | CE 2041 | Bridge Structures |
| 3 | 16.04.15 | CE 2071 | Repair And Rehabilitation Of Structures |

CE 2451 ENGINEERING ECONOMICS AND COST ANALYSIS

WEEK-1&2:

UNIT I

Basic Economics

Definition of economics - nature and scope of economic science - nature and scope of managerial economics -basic terms and concepts -goods -utility -value -wealth -factors of production -land -its peculiarities -labour -economies of large and small scale -consumption -wants - its characteristics and classification - law of diminishing marginal utility - relation

WEEK-2 : UNIT TEST =I

WEEK-3&4:

Demand and Schedule

Demand ,demand schedule , demand curve , law of demand , elasticity of demand , types of elasticity , factors determining elasticity

WEEK-5&6:

Perfect competition , monopoly , monopolistic Competition

WEEK-6:UNITTESTII

WEEK-7:

UNIT III

Organisation

Forms of business -proprietorship -partnership -joint stock company - cooperative organisation -state enterprise -mixed economy -money and banking -banking -

WEEK 8: kinds -commercial banks -central banking functions -control of credit -monetary policy -credit instrument.

WEEK 9: UNIT TEST III

WEEK-10: UNIT IV

Financing

Types of financing -Short term borrowing -Long term borrowing -
Internal generation of funds -External commercial borrowings
-Profit and Loss account -Funds flow statement Types of
financing, short term borrowing

WEEK 11&12 :

Assistance from government budgeting support and
international finance corporations -analysis of financial statement
-Balance Sheet , Profit and Loss account , Funds flow statement.

WEEK 12: UNIT TEST IV

WEEK 13:

UNIT V

COST AND BREAK EVEN ANALYSES

Types of costing –traditional costing approach -activity base
costing -Fixed Cost –variable cost –marginal cost –cost output
relationship in the short run and in long run –pricing practice
–full cost pricing –marginal cost pricing –going rate pricing –bid
pricing –pricing for a rate of return

WEEK 14

appraising project profitability –internal rate of return –pay back
period –net present value – cost benefit analysis – feasibility
reports – appraisal process – technical feasibility economic
feasibility –financial feasibility. Break even analysis - basic
assumptions –break even chart –managerial uses of break even

WEEK 15 UNIT TEST V

WEEK - 16 & WEEK - 17

ICD CLASSES & MODEL EXAM

CE 2045 PREFABRICATED STRUCTURES

WEEK-1&2:

UNIT I Introduction

Need for prefabrication – Principles – Materials – Modular
coordination – Standardization –Systems –Production –Transportation
–Erection

WEEK-2 : UNIT TEST =I

WEEK-3&4:

Prefabricated components

Behaviour of structural components –Large panel constructions –
Construction of roof and

WEEK-5&6:

floor slabs –Wall panels –Columns –Shear walls

WEEK-6:UNITTESTII

WEEK-7:

UNIT III

DESIGN PRINCIPLES

Disuniting of structures- Design of cross section based on
efficiency of material used --

WEEK 8: Problems in design because of joint flexibility –Allowance for
joint deformation.

WEEK 9: UNIT TEST III

WEEK-10: UNIT IV

Joint in structural members Joints for different structural
connections –

WEEK 11&12 :

Dimensions and detailing – Design of expansion
joints

.WEEK 12: UNIT TEST IV

WEEK 13:

UNIT V

Design for abnormal loads Types of costing – Progressive
collapse – Code provisions – Equivalent design loads for
considering

WEEK 14

abnormal effects such as earthquakes, cyclones, etc., -Importance
of avoidance of progressive collapse

WEEK 15 UNIT TEST V

WEEK - 16 & WEEK - 17

ICD CLASSES & MODEL EXAM

CE 2071 REPAIR AND REHABILITATION OF STRUCTURES

WEEK-1&2:

Maintenance and Repair Strategies

Maintenance, repair and rehabilitation, Facets of Maintenance
Assessment procedure for evaluating a damaged structure

WEEK-2 : UNIT TEST =I

WEEK--3&4:

UNIT –II

Serviceability and Durability of Concrete

Quality assurance for concrete construction concrete properties ,
strength, permeability, thermal properties and cracking

WEEK-5&6:

Effects of cover thickness and cracking

WEEK-6:UNITTESTII

WEEK-7:

UNIT –IV

Special concretes and mortar, concrete chemicals, special
elements for accelerated strength gain.

WEEK 8::

Expansive cement, polymer concrete

WEEK 9: UNIT TEST III

WEEK-10: UNIT IV

Techniques For Repair and Demolition

Rust eliminators and polymers coating for rebars during repair,
foamed concrete

WEEK 11&12 :

: Engineered demolition techniques for dilapidated
structures - case studies.

WEEK 12: UNIT TEST IV

WEEK 13:

UNIT V

Repairs, Rehabilitation and Retrofitting of Structures

Repairs to overcome low member strength, Deflection, Cracking, Chemical disruption,

WEEK 14

weathering corrosion, wear, fire, leakage and marine exposure

WEEK 15 UNIT TEST V

WEEK - 16 & WEEK - 17

ICD CLASSES & MODEL EXAM

