

**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE
COMMUNITY COLLEGE**

Diploma in Construction and Building Technology

For Students admitted from 2015-2016 onwards

Semester - I

S.No	COURSE CODE	COURSE TITLE	HRS	CREDITS	MAX MARKS		
					INT/ Theory	EXT/ Practical	TOT
1	G001	Basic English	60	4	50	50	100
2	G002	Basic Mathematics	60	4	50	50	100
3	G003	Computer Fundamentals	60	4	50	50	100
4	CON/ N 0125	Read and interpret specification, standards and schematic working drawings for wet finishing and flooring works	270	18	40	60	100
5	CON/ N 0126	Ensure execution of wet finishing works as per specifications and standard practices			40	60	100
6	CON/ N 0127	Ensure execution of flooring and cladding works as per specifications and standard practices			40	60	100
7	CON/ N 7001	Plan, arrange and manage resources for execution of relevant work			40	60	100
Total			450	30	-	-	700

Semester - II

S.No	COURSE CODE	COURSE TITLE	HRS	CREDITS	MAX MARKS		
					INT/ Theory	EXT/ Practical	TOT
1	G004	Communicative English	60	4	50	50	100
2	G005	Office Automation	60	4	50	50	100
3	G006	Value Education	60	4	50	50	100
4	CON/ N 8001	Work effectively in a team to deliver desired results at the workplace	270	18	40	60	100
5	CON/ N 8002	Plan and organize work to meet expected outcomes			40	60	100
6	CON/ N 8003	Supervise, monitor and evaluate performance of subordinates at workplace			40	60	100
7	CON/ N 9001	Work according to personal health, safety and environment protocol at construction site			40	60	100
Total			450	30	-	-	700

**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE
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Course: Diploma in Construction and Building Technology

Subject Code: G001

Subject: Basic English

Unit-I

Parts of speech
Verb – Auxiliary verbs
Model verbs

Unit-II

Phrase, Clause and Sentence
Present tense
Past tenses.

Unit-III

Future tense
Subject – verb agreement
Sentence patterns

Unit-IV

Note – making
Report writing
Reading comprehension.

Unit-V

Soft skills: Reading loud – conversation – personality development – body language –
pronunciation – common errors.

Text Books:

1. High School English Grammar, Wren and Martin, Sultan Chand Publications, New Delhi.
2. Effective English communication for you, Syamala V.

**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE
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Course: Diploma in Construction and Building Technology

Subject Code: G002

Subject: Basic Mathematics

Unit-I

SET AND FUNCTIONS: Introduction - Properties of operations on sets - De Morgan's laws- verification examples – Venn diagrams – formula for $n(A \cup B \cup C)$ – Functions.

Unit-II

SEQUENCES AND SERIES OF REAL NUMBERS: Introduction – Sequences – Arithmetic Progression (A.P) – Geometric Progression (G.P.) – Series.

Unit-III

ALGEBRA: Solving Linear Equations – Polynomials – Synthetic division – Greatest Common Divisor (GCD) – Least Common Multiple (LCM) – Rational Expressions – Square root – Quadratic equations.

Unit-IV

MATRICES: Introduction – Types of Matrices – Addition and Subtraction – Multiplication – Matrix equation.

Unit-V

COORDINATE GEOMETRY: Introduction – Revision: division between two points – Section formula, mid point formula, Centroid formula – Area of triangle and quadrilateral – straight line.

Text Books:

1. Basic Mathematics, Science Series Rupa, Rupa Publications, 2011.

**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE
COMMUNITY COLLEGE**

Course: Diploma in Construction and Building Technology

Subject Code: G003

Subject: Computer Fundamentals

Unit-I

MICROSOFT WINDOWS 7: Exploring windows 7 desktop – using the mouse – scrolling, maximizing, minimizing and closing window – using aero snaps, Windows start menu - opening program – displaying and peeking at desktop – switching between programs – managing the windows taskbar.

Unit-II

Working gadgets – managing drives with computer explorer – using menus, toolbars and ribbons – changing desktop theme, color, screensaver, background, slideshow.

Unit-III

WORKING WITH FILES AND FOLDERS: Windows explorer – Changing the way files are displayed – sorting files and folders - navigating folders with navigation pane – creating, renaming, copying, renaming, moving, deleting restoring folders – Working with libraries – creating library – compressing and extracting a file.

Unit-IV

BROWSING THE WEB: Internet Explorer - Surfing the Web with Internet Explorer - Saving Your Favorite Pages - Returning to a Favorite Page - Revisiting History - Searching the Web with Google - Finding News and Other Information Online - Shopping for Bargains at Shopping.com - Bidding for Items on eBay - Buying Items on craigslist - Selling Items on craigslist - Watching Web Videos on YouTube - Uploading Your Own YouTube Videos.

Unit-V

COMMUNICATING ONLINE: Gmail - Setting up a Gmail Account - Reading an email message - Replying to an Email message - Composing a new email message - Sending a file via email - Managing Gmail messages - Adding Gmail contacts.

Text Book:

1. Michael Miller, **Easy Computer Basics Windows 7 Edition**, Pearson Publication, First Edition, 2011.

**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE
COMMUNITY COLLEGE**

Course: Diploma in Construction and Building Technology

Subject Code: CON/ N 0125

Job Role: Read and interpret specification, standards and schematic working drawings for wet finishing and flooring works

Unit-I

Guidelines for Building Drawing - Plan, Elevation and Sectional drawings - Architectural drawing - Principles of measurement, Arithmetic and geometric calculations - Linear conversion of units – Units of Measurements.

Unit-II

Introduction – Types of Flooring – Tools required flooring work – Material specifications and its checking – The understand & follow manufactures specification for flooring and cladding works with different tiles and stones – Calculation for required quantity of material from schematic working drawing.

Unit-III

- i. Practice Layout of drawings and Title block
- ii. Practice to lines of Drawings, lettering and Numbering.
- iii. Practice to method of dimensioning in the various drawing
- iv. Reading of Architectural drawing (Plan, Section, Elevation).

Unit-IV

- i. Practice given to the Tools used in the masonry work (brick, stone, flooring, plastering, concrete).

Unit-V

- i. Practice given to the Conversion of units and measurements.
- ii. Practice given to the Calculation for quantity of material required for the given drawing

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Course: Diploma in Construction and Building Technology

Subject Code: CON/ N 0126

Job Role: Ensure execution of wet finishing works as per specifications and standard practices

Unit-I

Sequence of construction of a building – Name of different parts of building – Masonry – brick masonry – Principal of construction of bonds – Tools and Equipment used – stone masonry – terms used – Principal of construction – Classification , composite masonry and strength of walls – concrete block masonry.

Unit-II

Plastering – materials required for plastering - Tools required for plastering – Types of plaster – Internal plaster – External plaster – Defects in plastering work and Remedies for the same – Precautionary measures to avoid cracks in plastering.

Unit-III

Water proofing – Introduction – materials required for water proofing & its specifications – Tools required for water proofing – working procedure & stage of work of water proofing for – water proofing expansion joint – procedure for glazed china mosaic / kavadi type water proofing for terrace – work procedure for socketing – use of chemical for water proofing work – repairs & maintenance in water proofing –various types of finishes – grit wash – aggregate wash – stone – crete , cement wash – specifications.

Unit-IV

- i. Preparation of mortar (Cement, lime, Mud) by hand & machine mixing .
- ii. Arrangement of brick using English bond in one brick thick wall, one and half brick thick wall on Tee – Junction.
- iii. Arrangement bricks using English bond in one brick thick square pillars, one and half brick thick pillars.
- iv. Arrangement brick using Flemish bond in half brick wall and two brick thick square pillars.
- v. Construction of hollow bricks wall using stretcher bond.
- vi. Construction of wall by using a stone in coursed & random rubble masonry.

Unit-V

- i. Using a various types of mortar for Plastering in the wall and practice.
- ii. Construction practice of laying tiles, marble, granite and other Natural stones.
- iii. Construction practice of laying weathering course in the water proofing works.
- iv. Construction practice in curing of different works in Cement plastered surfaces.
- v. Construction practice of different surface finishes like grit – wash, stone – crete, cement wash and ornamental plastering works.

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Course: Diploma in Construction and Building Technology

Subject Code: CON/ N 0127

Job Role: Ensure execution of flooring and cladding works as per specifications and standard practices

Unit-I

Procedure for flooring work – Information at a Glance for flooring work – Architectural drawing and basic principles of all flooring works with natural stones – the ratio of cement mortar mix used for various flooring works – standard tolerance limits for flooring works – methodology for various flooring works – Methods of curing of different flooring works – safety rules and regulations for handling and storing required tools, equipment and materials.

Unit-II

Procedure Polishing work – Preparation & Procedure for Cladding / Dado work – Information at a Glance for Dado work – Architectural drawing and basic principles of all cladding works with natural stones - the ratio of cement mortar mix used for various cladding works - standard tolerance limits for cladding works – Methodology for dry and wet cladding works – the use of mechanical ties and anchor clip for dry and wet cladding – the use of anchoring tools for cladding works – the standard methods of fixing stones using specified mortar for bonding in case of wet cladding works – Methods of curing of different cladding works.

Unit-III

Construction practice for the following major finishes in flooring works

- i. Vacuum dewatered flooring (VDF)
- ii. Terrazzo (marble chips) flooring
- iii. PVC sheet flooring
- iv. Carpet flooring
- v. Wood/ Timber flooring
- vi. Marble flooring
- vii. Mosaic flooring
- viii. Rubber and Linoleum flooring

Unit-IV

1. Construction practice for the polishing of surface after laying of tiles, marble , granite or other natural stones.
2. Practice for the construction joint by using the flooring works.
3. Practice for the Tiles and natural stones are measured & cut as per the design/patterns and specifications.

Unit-V

1. Practice the standard methods for fixing stones using specified mortar for bonding in case of wet cladding works.
2. Practice for the grouting and sealing of stones as per specifications.
3. Construction Practice for the curing of cladding and flooring works.

**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE
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Course: Diploma in Construction and Building Technology

Subject Code: CON/ N 7001

Job Role: Plan, arrange and manage resources for execution of relevant work

Unit-I

Resource Planning, Procurement, Identification, Personnel, Planning for material, Labour, time schedule and cost control, Types of resources, manpower, Equipment, Material, Money, Time.

Unit-II

Systems approach, Characteristics of resources, Utilization, measurement of actual resources required, Tools for measurement of resources, Labour, Classes of Labour, Cost of Labour, Labour schedule, optimum use Labour.

Unit-III

Material: Time of purchase, quantity of material, sources, Transportation, Delivery and Distribution. Equipment: Planning and selecting by optimistic choice with respect to cost, Time, Source and handling.

Unit-IV

Personnel time, Management and planning, managing time on the project, forecasting the future, Critical path measuring the changes and their effects – Cash flow and cost control.

Unit-V

Time-cost trade off, Computer application – Resource leveling, resource list, resource allocation, Resource loading, Cumulative cost – Value Management.

**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE
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Course: Diploma in Construction and Building Technology

Subject Code: G004

Subject: Communicative English

Unit-I

Articles and Determiners
Kinds of Noun and Adjectives
Kinds of Sentences

Unit-II

Transformation of Sentences
1. Direct speech and Indirect speech
2. Active and Passive
3. Degrees of comparison

Unit-III

Message through E-mail and Fax
Advertisement
Notice, Agenda and Minutes
Précis writing

Unit-IV

Letter writing:
Structure – Style – Complaint letter – Job application – Bio data/Curriculum Vitae –
Resume – Informal letter

Unit-V

Conversational English
Greeting – Introducing – Requesting – Inviting – Congratulating – Thanking –
Permission – Apologizing – Asking to repeat – Asking for information

Text Books:

1. High School English Grammar, Wren and Martin, Sultan Chand Publications, New Delhi.
2. Effective English communication for you, Syamala V.

**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE
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Course: Diploma in Construction and Building Technology

Subject Code: G005

Subject: Office Automation

Unit-I

BASIC COMPUTER SKILLS: Identifying Major Computer Components - How Computers Work - Turning on the Computer and Logging On - OPERATING SYSTEMS AND SOFTWARE – INTERNET.

Unit-II

WORD: Introduction to Word Processing: Basic features – Full-Featured word processors – starting word – menus and toolbars – creating, editing and saving a word document – using word help – opening a document – moving multiple text selections simultaneously – link documents – creating table – working with graphics – mail merging – previewing and printing document.

Unit-III

EXCEL: electronic spreadsheets – spreadsheet packages – starting excel – navigating in a workbook – create, name and save a new workbook – data entry-manual and automatic – correcting mistakes-spelling checker, undo and redo changes.

Unit-IV

POWERPOINT: Presentation basics – presentation packages – starting PowerPoint – menus and toolbars – opening and saving an existing presentation – presentation using auto content wizard – presentation using design template – creating and saving a presentation using blank presentation.

Unit-V

MS ACCESS: Use of MS Access – Controls – Customization – database design – filtering and sorting - conversation – database basics – import and export – forms – reports.

Text Book:

1. Alexis Leon, Mathews Leon, **Introduction to Computers with MS-Office**, Tata McGraw Hill Publication, 2003.

**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE
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Course: Diploma in Construction and Building Technology

Subject Code: G006

Subject: ತೃಗಕೃಪಾಫ;ಫೃತೃ (Value Education)

Unit-I

ತೃಗಕೃಪಾಫ;- ಫೃಜ್ಜ ಹಫಫ' ಫಽS ಕ;bfhsj ಫಽS ಕ/ nfhL ghLಽS ಕ;

1. brhy;

xGffk/ gz glj Fj p/ kj pgg[- ತೃಗಕೃಪಾಫ;- ತೃGggk;

2. ಫೃಜ್ಜ ಹಫಫ' ಫಽS;

gz ghL/ gHff tHffk/ ekpfi f/ moggi lapy; nj hdWk; ತೃಗಕೃಪಾ' ಫಽS;- , awi f ಫೃತೃ/ ಫಿ yfs/i ಫೃತಿ dfs/ MdkPfk/ kdj f;ಫೃತೃnghdw ಫೃಜ್ಜ ಹಫಫ' ಫಿ sg]bgWj y;

3. bfhsj ಫಽS ಕ;nfhL ghLಽS ಕ;

gukk tjj j (vyyh ಫೃತೃಽS ಫಽk; moggi l ahdJ) - \ yffೃತೃ - Mj k tjj j (j di d cz Uk;ಫೃತೃ) - nky;ehl l th]nfhl ghLಽS;- , akk;(braaf;Tl hj i t - 10) - epakk;(braaf; Toai t - 16) - cybfhL xl l xGfy;- j pU\ yh] tssyhh]

Unit-II

ತೃಗಕೃಪಾಫ;ಫೃತೃಪದ;nj i taಕ;- ಫೃತೃKi waಕ;

1. gadghl Lಽಫೃತೃ

tHffj ಫಽFg]gadgLk;ಫೃತೃ (_uhkಫU# z h]ಫಿ j / gl F - tjj ,thd) ekpfi ಫಽಫೃತೃ (_uhkಫU# z h]ಫಿ j / Mi k - ghkg] - ಫೃತೃbj hl ' f ntz oa , l k;- tL - gssp - ಫೃY)hp

2. ತೃಗಕೃಪಾಫ;ಫೃತೃಪದ;nj i t

j dpkdj tsh]tೃp rKj ha tsh]tೃp - cyf tsh]tೃp - gHi kg] ngz y; - gaDi l a ekpfi ಫಽಫಿ sg]ghJ fhj j y;- mHpaಕ;ಫಿ yಫಿ sg]ghJ fhj j y;- g[hj d rpd' ಫಿ sg]nghwwy/ cz h]t [cz l hFj y;

3. ತೃಗಕೃಪಾಫ;ಫೃತೃಪದ;nj i t Fw] j Rthkೃtnt fhdej h]

tHffj ಫಽF c j tಕ;ಫೃತೃ- kui gg]nghwWk;ಫೃತೃ- fhy epi yfnfwwf;ಫೃತೃ- gpw.

Unit-III

j dpkdj ತೃಗಕೃಪಾKk;rKj ha ತೃಗಕೃಪಾKk;

1. j dpkdj ತೃಗಕೃಪಾಫ;

j dpkdj tsh]tೃp - xGffk;- Ra j h]khdk;(Ra xG' i f ti uaWj j f;bfhssy) c l y/ kdk/ thff nghwWj y;- bgwnwhi ug]nghwWj y;- FLkg c wtೃy;nkdi k

2. rKj ha ತೃಗಕೃಪಾಫ;

, dbrhy;- edwpa[l i k - mdg[- < i f - nghpnahi ug]ngz y;- j hai kg]nghwWj y;

3. j dpkdj rKj ha ತೃಗಕೃಪಾಫ;j hy;cyf mi kj pfh z y;

j dpkdj tsh]tೃp - rKj ha tsi k - ehl od;t si k - gpw ehl nl hL ey;Ywt[

Unit-IV

ತೃಗಕೃಪಾಫ;ಫೃತೃಪದ;ಫೃಜ್ಜ ಫಽಽS ಕ;rKj ha tsh]tೃಪಾಕ;

1. rKj ha ಫೃತೃಪದ;ಫೃಜ್ಜ ಫಽಽS ಕ;

fhej p - mdi dbj urh

2. MdkPfk ಫೃತೃಪದ;ಫೃಜ್ಜ ಫಽಽS ಕ;

_uhkಫU# z h]- tssyhh]

3. , yffೃ ತೃಗಕೃಪಾಫ;ಫೃತೃಪದ;ಫೃಜ್ಜ ಫಽಽS ಕ;

j pU\ yh]- Mz } hs;

Unit-V

Cyf nehffpy; t pGk paf; fy; t p

1. **CyfwFg] bghJ thd t pGk paf;**

mdg[- kf; fs; ngz y; - gwh] F F c j t] y; - , awi f ts' fi sglghJ fhj j y; - gpw

2. **Cyf t pGk paf; j j tsh] j y;**

x d n w F y k; - k j x U i k g] h L - g w h] g z g h l i l g] n g h w W j y;

3. **Cyf t pGk paf; j j g] h J f h f f r] b r a a n t z o a d;**

k j f; n f h l g h L f i s k j p j j y; - r h j p k j n t W g h l w w e y; Y w t F; b f h s s k y; - n g r R j ; j h] t
V w g L j j y; - r f p g] j ; j d i k - J } J - x U e h l L t p G k p a f ; j j g] g w e h l t t h F F g] n g h j p j j y;
- c y f k; j G t p a b g h J t p G k p a f ; f y ; t p i a g] n g h j p j j y;

**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE
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Course: Diploma in Construction and Building Technology

Subject Code: CON/ N 8001

Job Role: Work effectively in a team to deliver desired results at the workplace

Unit-I

Communication – The importance of communication – Basics of organizational communication – Superior and sub – ordinate communication – the verbal and non verbal language of work.

Unit-II

Cross Cultural communication – Language difference – Nonverbal communication across cultures – Etiquette and politeness across cultures – social conventions across cultures – personal approaches to improving – basic principles of effective and cross cultural communication.

Unit-III

Resource productivity control: Labor productivity control, material wasting control, control responsibility.

Unit-IV

Project time control: Time monitoring methodology, reviewing time progress, time cost relationship.

Unit-V

Manpower Requirement on the basis of quantum of work and productivity – Sequence and priority of activities – Provide clear instruction to workmen for execution of work – Method and technique on briefing team members about relevant work – The different check to evaluate progress and quality of relevant works – The importance of daily productivity report and attendance register.

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Course: Diploma in Construction and Building Technology

Subject Code: CON/ N 8002

Job Role: Plan and organize work to meet expected outcomes

Unit-I

Basic Concepts in the Development of Construction Plans – Choice of Technology and Construction Method – Defining Work Tasks – Defining Precedence Relationships among Activities – Estimating Activity Durations – Estimating Resource Requirements for Work Activities – Coding Systems.

Unit-II

Types of Project Information – Accuracy and Use of Information – Computerized Organization and Use of Information – Organizing Information in Databases – Relational Model of Databases – Other Conceptual Models of Databases – Centralized Database Management Systems – Databases and Applications Programs – Information Transfer and Flow.

Unit-III

Overview of IT Applications in Construction – Construction process – Computerization in Construction – Computer aided Cost Estimation – Developing application with database software.

Unit-IV

PERT and CPM - Advanced planning and scheduling concepts – Computer applications – Case study.

Unit-V

Linear, Dynamic and Integer Programming - Branch and Bound Techniques – Application to Production Scheduling, Equipment Replacement, Material Transportation and Work Assignment Problems – Software applications.

**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE
COMMUNITY COLLEGE**

Course: Diploma in Construction and Building Technology

Subject Code: CON/ N 8003

Job Role: Supervise, monitor and evaluate performance of subordinates at workplace

Unit-I

The role of the supervisor - The scope and importance of verbal communication
The various job site personnel issues - Identify the supervisor's role in safety - Manage and estimate the cost of tools and materials - Describe the importance of leadership in effective supervision.

Unit-II

Basic individual psychology – Approaches to job design and job redesign – Self managing work teams – Intergroup – Conflict in organizations – Leadership-Engineer as Manager – al aspects of decision making – Significance of human relation and organizational – Individual in organization – Motivation – Personality and creativity – Group dynamics, Team working – Communication and negotiation skills.

Unit-III

Organizational policies and Procedures.

Unit-IV

1. The fix expected targets for the respective gang as per site requirements and allocate work to subordinates.
2. The establish expected performance standards and expectations for the respective gang of workers to meet the desired outcomes.
3. The inspect assigned work to the respected gang of workers through progressive checking.

Unit-V

1. Observe and verify the work activities performed by the subordinates at the construction site.
2. The monitor over all performance of subordinates on the designed measures to ensure quality requirements set by the concerned authority.
3. The ensure adherence to the organizational polices and procedures for all relevant construction activities by the workmen subordinations.

**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE
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Course: Diploma in Construction and Building Technology

Subject Code: CON/ N 9001

Job Role: Work according to personal health, safety and environment protocol at construction site

Unit-I

Introduction – Importance of Safety – Causes of Accidents – Classification of Construction Accidents – Responsibility for safety – Safety measure – Role of various Parties in safety Management – Safety benefits to Employers, Employees and Customers – Approaches to improve safety in construction – Salient points of safety management – safety Programs – Contract Requirements – Safety Guidelines for Personnel Conduct – Measurement of safety – Ergonomics applied to the construction industry – prevention of fires at construction sites – Indian standards for safety in construction.

Unit-II

Safety and health training and competence – training for safety and health – identify training needs – Organizational needs ,Job related needs , individual needs , identify training objectives and methods , Deliver training , Evaluation and feedback , specialist advice and services – Access to specialist advice and services , relationships within the Organization , relationships outside the organization , external specialist safety support.

Unit-III

Personal Protective Equipment (PPE) - Foot Protection – Head Protection – Ear protection – Fall protection –Face and Eye protection – hand and body Protection – Hazardous materials – preventive measures – Control measures – Management of major Hazards.

Unit-IV

Waste Management – General Waste management – Waste management Planning – Waste prevention – Recycling and Reuse – Treatment and Disposal - Hazardous waste Management -Waste Storage – Transportation – Treatment and Disposal.

Unit-V

Visit to Construction site – Erecting and dismantling scaffolding for single storied – Multi storied buildings – Demonstration of safety harness and ladders – Showing how to use power tools and hand tools safety – Conducting tool box meeting – mock drill (falling from height) -Awareness about site evacuation plan – Safe way to material handling