

COURSE OBJECTIVES:

To enable students to

- impart knowledge about the importance of vocabulary and grammar.
- help the students of engineering and technology develop a strong base in the use of English.
- improve the reading skills of the students so as to enable them to communicate with confidence in English.
- develop their basic speaking skills in order to deliver impromptu talks, participate with confidence in conversations.
- enable students to write / draft effective essays and emails for effective communication.

UNIT I VOCABULARY&GRAMMAR**9**

General Vocabulary - Prefixes & Suffixes - Words used as nouns and verbs - Adjectives - Comparative adjectives - Phrasal verbs- Acronyms - Abbreviations -Tenses - Active and Passive voice - Modal verbs and Probability - Cause and Effect expressions - subject-verb agreement - yes or no questions - gerund and infinitives - imperative sentences - Prepositions-developing hints-reading short passages in English and answering multiple choice questions.

UNIT II LISTENING**9**

Listening and transferring of information, listening to dialogues, listening to informal conversation- listening to short talks and answering questions- understanding the structure of conversations- telephone etiquette.

UNIT III READING**9**

Reading – Sub-Skills of reading-skimming-scanning-predicting-Reading comprehension (multiple choice and open-ended questions) with multiple choice questions. – analyzing the use of language in advertisements- interpreting visual information - Flow Chart, Pie Chart, Graph, Bar Chart (Transcoding)

UNIT IV WRITING**9**

Informal letters/ emails- writing recommendations, checklists - instructions – note making-note taking- minutes of Meeting-use of cohesive devices and reference words- essay writing – different types of essays – - Summarywriting.

UNIT V SPEAKING**9**

Self introduction - personal information Name, background, study details, areas of interest, hobbies, strengths and weaknesses, role model and future ambition –Role Plays- Presentations on a given topic – participating in GDs- fundamentals.

TOTAL : 45 PERIODS

COURSE OUTCOMES:

Upon the completion of the course, students will be able to

- use suitable vocabulary and grammar with confidence and express their ideas both in speech and writing.
- listen and comprehend classroom lectures, short talks and conversations.
- read, interpret and analyze a given text effectively, and use cohesive devices in spoken and written English.
- understand English and converse effectively.
- write flawless sentences, essays and letters.

TEXT BOOKS:

1. Elango.K, & Co., “Resonance” Cambridge University Press India Pvt.Ltd. New Delhi, 2013.
2. Dhanavel, S.P. English and Communication Skills for Students of Science and Engineering. Orient Blackswan, Chennai. 2011.

REFERENCE BOOKS:

1. Raman, Meenakshi&Sangeetha Sharma. Technical Communication: Principles and Practice. Oxford University Press, New Delhi.2011.
2. Rizvi, Ashraf. M. Effective Technical Communication. Tata McGraw-Hill, New Delhi.2005
3. Rutherford, Andrea. J Basic Communication Skills for Technology. Pearson, NewDelhi2001.

	Mapping of Course Outcomes with Programme Outcomes (1/2/3 indicates strength of correlation) 3-Strong, 2-Medium, 1-Weak													
COs	Programmes Outcomes (POs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	-	-	-	-	-	-	2	-	2	2	1	-	-
CO2	-	-	-	-	2	3	2	3	1	3	1	-	-	-
CO3	-	-	-	3	-	2	-	2	2	2	2	2	-	-
CO4	-	-	-	-	-	2	2	2	1	3	1	1	-	-
CO5	-	-	-	2	-	-	-	3	3	-	3	1	-	-



COURSE OBJECTIVES

- To prepare assembly drawings both manually and using standard CAD packages
- To familiarize the students with Indian Standards on drawing practices and standard components
- To gain practical experience in handling 2D drafting and 3D modeling software systems.
- To make the students understand and interpret drawings of machine components.

List of Exercises using software capable of Drafting

1. Study of capabilities of software for Drafting and Modeling -
Coordinate systems (absolute, relative, polar, etc.) - Creation of simple figures like polygon and general multi-line figures.
2. Drawing of a Title Block with necessary text and projection symbol.
3. Drawing of curves like parabola, ellipse, hyperbola, spiral, involute using B-Spline or cubic spline.
4. Drawing of front view and top view of simple solids like prism, pyramid, cylinder, cone, etc, and dimensioning.
5. Drawing front view, top view and side view of objects from the given pictorial views (eg. V-block, Base of a mixer, Simple stool, Objects with hole and curves).
6. Drawing of a plan of residential building (Two bed rooms, kitchen, hall, etc.)
7. Drawing of a simple steel truss.
8. Drawing sectional views of prism, pyramid, cylinder, cone, etc,
9. Drawing isometric projection of simple objects.
10. Creation of 3-D models of simple objects and obtaining 2-D multi-view drawings from 3D model.
11. Development of prism, pyramid, cylinder, cone, etc, in 2-Dimensional

Note: Plotting of drawings must be made for each exercise and attached to the records written by students.

TOTAL: 30 PERIODS

COURSE OUTCOMES

At the end of the course the student will be able to

- Develop competency in basic drafting, enabling them to pursue careers in engineering, professional arenas, or to further their academic pursuits.
- Follow the drawing standards, Fits and Tolerances
- Re-create part drawings, sectional views and assembly drawings as per standards
- Draw 2 D and drawing using CAD software.

CO - PO Mapping

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CO1	3	3	3	3	3	1	-	-	-	-	1	1	2	1
CO2	3	3	3	3	3	1	-	-	-	-	1	1	2	1
CO3	3	3	3	3	3	1	-	-	-	-	1	1	2	1
CO4	3	3	3	3	3	1	-	-	-	-	1	1	2	1



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- enable students to write / draft effective essays and emails for effective communication.

UNIT I VOCABULARY AND GRAMMAR**9**

General Vocabulary, Adverbs – appropriate word order to form sentences – Collocation - Compare and contrast -Idioms and their usage - compound nouns -Numerical expression -Purpose expression -Articles - Relative pronoun -Reported speech - Discourse markers- If conditional sentences – Editing-Wh Questions – One word Substitution

UNIT II LISTENING**9**

Listening to news and announcements, listening to a telephone conversation- Listening to model interviews –TED Talks- Interview Techniques

UNIT III READING**9**

Reading - Developing analytical skills, Deductive and inductive reasoning - Extensive reading-Reading articles in newspapers, journals, manuals- critical reading.

UNIT IV WRITING**9**

Business letters – Inviting Quotations, Placing Orders, writing official letters- complaint letters, invitation letters- requisition letters – writing a job application- Resume -Technical Report Writing – (Feasibility Reports, Accident Report, Survey Report)

UNIT V SPEAKING**9**

Syllable - Stress- Intonation- Silent Letters - Presentations on a given topic - Mini presentation in small groups – group discussions- mock interviews.

TOTAL : 45 PERIODS

COURSE OUTCOMES :

At the end of the course, the students will be able to

- Speak with clarity and confidence
- Write comprehensive and grammatically correct reports, job applications and draft e- mails.
- Make effective presentations using powerpoint.
- Participate successfully in Group Discussions.
- understand English and converse effectively.

TEXT BOOKS:

1. Elango.K, & Co., “Resonance” Cambridge University Press India Pvt.Ltd. New Delhi, 2013.
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CO3	-	-	-	3	-	2	-	2	2	2	2	2	-	-
CO4	-	-	-	-	-	2	2	2	1	3	-	-	-	-
CO5	-	-	-	2	-	-	-	3	3	3	3	-	-	-

