

G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF HUMANITIES & SCIENCES
FIRST B.TECH
COURSE DESCRIPTION

| | | |
|----------------------------|---|--|
| Course Code | : | 15A52101 |
| Course Title | : | FUNCTIONAL ENGLISH |
| Course Structure | : | Lectures Tutorials Practicals Credits |
| | | 3 1 4 3 |
| Course Coordinator | : | G.Sashi Kumar |
| Team of Instructors | : | Dr. T. Sujatha, M. Sridevi, L. Tehseen Khanam, K.P. Sravani |

I. Course Overview:

The basic idea behind offering English as a subject at the undergraduate level is to acquaint students with a language held by common consent to be the most popular language and predictably the most used in countries across the globe. The lessons included as part of syllabus, aim to take the nuances of English to students as it reveals its strengths and complexity when used to perform a variety of functions. For prospective engineers, nothing could be more useful or productive than being able to reach out to the world of technology and business through letters, advertisements, posters, technical presentations, report writing, seminars etc. and teachers of English have a special role to play in polishing and honing the linguistic skills of engineers in the making, through a variety of tasks, assignments and role plays that bring alive the language in the classroom and prepare students for the world of work. The mission of taking the language to students is achieved from teaching texts that are rich in vocabulary and grammar, texts that teach learners how to contextualize, situate meaning amidst ambiguity and learn the art of being able to persuade, compel, cajole, complain, narrate, describe etc. through recourse to a range of devices- linguistic and literary- on offer. Besides, the course has in mind the task of preparing students to fulfill basic functions with language that come their way during the course of study, such as being able to compose email effectively, prepare technical papers abstracts, write effective business, formal and job application letters, publish articles, write memos and technical reports, etc.

II. Prerequisite(s):

| Level | Credits | Periods / Week | Prerequisites |
|--------------|----------------|-----------------------|---|
| UG | 3 | 4 | Knowledge of grammar and minimum vocabulary |

III. Marks Distribution:

| Sessional Marks | University End Exam Marks | Total Marks |
|---|---------------------------|-------------|
| <p><u>Two</u> midterm examinations. Each midterm examination consists of objective paper for 10 marks and subjective paper for 20 marks with duration of 1hour 50 minutes (20 minutes for objective and 90 minutes for subjective paper). Objective paper is set for 20 bits for 10 marks. Subjective paper shall contain 5 questions of which student has to answer 3 questions evaluated* for 20 marks. First midterm examination shall be conducted for I,II units of syllabus and second midterm examination shall be conducted for III -V units. The total marks secured by the student in each midterm examination for 30 marks is considered and the <u>better of the two</u> midterm examinations average shall be taken as the final sessional marks secured by each candidate in the subject.</p> | 70 | 100 |

IV. Evaluation Scheme:

| S. No. | Component | Duration (hours) | Marks |
|--------|----------------------|------------------|-------|
| 1 | I Mid Examination | 1hrs 50mts | 30 |
| 2 | II Mid Examination | 1hrs 50mts | 30 |
| 3 | External Examination | 3 hrs | 70 |

V. Course Objectives:

- I. To familiarize learners with the Indian scenario where science and technology is concerned and give them an inkling of the lives of Indian scientist who worked for the cause of science.
- II. To know the importance of humanity, love and service to mankind with reference to Mother Theresa's biography.
- III. To give an opportunity to learners to sample argumentative, narrative, descriptive and persuasive styles of writing.
- IV. To motivate learners to aspire high from discussing the achievements of eminent personalities like Amartya sen and encourage them in dreaming high.
- V. To give an opportunity to learners to sample argumentative, narrative, descriptive style of writing.
- VI. To present learners with a brief history of Nobel laureates like C.V.Raman, Gertrude Elion
- VII. To enable the learners to use grammar and vocabulary confidently.
- VIII. To introduce the finer nuances of written communication in letter writing, email writing, memo writing.
- IX. To introduce the finer nuances of written communication in report writing.

VI. Course Outcomes:

Upon successful completion of this course, the student will be able to:

1. Describe the importance of listening and reading skills.
2. Demonstrate listening and reading skills in speaking and writing technical contents.

3. Explain in one's own words the steps for performing a complex tasks: group discussion and interview.
4. Analyze information in science and technological context.
5. Evaluate approaches, methods and solutions related to learning LSRW Skills.
6. Design a strategy to perform a specific task.
7. Equip themselves with critical reading and get information from the context with the help of root words and contextual clues.

VII. How Course Outcomes are assessed:

| Program Outcomes | | Level | Proficiency assessed by |
|------------------|---|-------|-----------------------------------|
| a | An ability to apply knowledge of mathematics, science and engineering fundamentals to the conceptualization of engineering models (Fundamental Engineering Analysis Skills). | N | -- |
| b | An ability to design and conduct experiments, as well as analyze and interpret the data (Information retrieval skills). | N | -- |
| c | An ability to design, implement and evaluate desired needs within realistic constraints such as economic, environmental, social, ethical, health and safety, and sustainability (Creative Skills). | S | -- |
| d | An ability to function effectively as an individual and as a member or a leader in multidisciplinary teams (Team Work). | N | -- |
| e | An ability to identify, formulate and apply appropriate techniques, resources and to solve engineering problems (Engineering Problem Solving Skills). | N | -- |
| f | An understanding of professional ethics and responsibilities of engineering practice (Professional Integrity). | N | -- |
| g | An ability to communicate effectively with the engineering community and society at large such as writing effective reports and making effective presentations (Communication Skills). | H | Assignments, worksheets, seminars |
| h | Understanding of the impact of engineering solutions in a global, economic, environmental and societal context (Engineering impact assessment skills). | N | -- |
| i | An ability to engage in life-long learning and an understanding of the need to keep current of the developments in the specific field of practice (Continuing education awareness). | S | Seminars Discussions |
| j | Knowledge of contemporary issues like increased use of portable devices, rising health care costs and etc. which influence engineering design (Social awareness). | S | Seminars Discussions |
| k | An ability to use current techniques, skills and modern engineering tools necessary to analyze engineering practice (Practical engineering analysis skills). | N | -- |
| l | An ability to apply creativity in design and development of electronic circuits, equipment, components, sub-systems and systems (Software and Hardware Interface). | N | -- |

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| m | An ability to recognize the importance of professional developments by pursuing post graduate studies or facing competitive examinations that offer challenging and rewarding careers in designing (Successful Career and Immediate Employment). | S | Assignments seminars |
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N = None

S = Supportive

H = Highly Related

VIII. Syllabus:

UNIT –I

Topics: Paragraph writing, writing letters, role play, reading graphs, prepositions, designing posters, tenses, making recommendations.

Text: ENVIRONMENTAL CONSCIOUSNESS“ from *MINDSCAPES*
Climate Change - Green Cover – Pollution

UNIT –II

Topics: Compound nouns, imperatives, writing instructions, interpreting charts and pictures, note making, role play, prefixes, subject-verb agreement.

Text: EMERGING TECHNOLOGIES from *MINDSCAPES*
Solar Thermal Power - Cloud Computing - Nanotechnology

UNIT –III

Topics: Making conversations, homonyms and homophones, SMS and use of emotions, past participle for irregular verbs, group discussion, E - mail communication, antonyms, Preparing projects

Text: GLOBAL ISSUES from *MINDSCAPES*
Child Labour - Food Crisis - Genetic Modification - E-Waste - Assistive Technology

UNIT –IV

Topics: Group discussion, affixes, double consonants, debates, writing a book / film review, predicting and problem-solving-future tense, adverbs

Text: SPACE TREK from *MINDSCAPES*
Hubble Telescope - Chandrayan-2 - Anusat - Living Quarters - Space Tourism

UNIT –V

Topics: Compare and contrast, effective writing, group discussion, writing reports, writing advertisements, tweeting and blogging, types of interviews, framing questions.

Text: MEDIA MATTERS from *MINDSCAPES*
History of Media - Language and Media - Milestone in Media - Manipulation by Media - Entertainment Media - Interviews

Text Books:

1. MINDSCAPES: English for Technologists and Engineers, Orient Blackswan, 2014.

References:

- III. A Practical Course in Effective English Speaking Skills by J.K.Gangal, PHI Publishers, New Delhi.2012
- JJJ. Technical Communication, Meenakshi Raman, Oxford University Press,2011.

- KKK. Spoken English, R.K. Bansal & JB Harrison, Orient Longman,2013, 4Th edition.
LLL. Murphy's English Grammar with CD, Murphy, Cambridge University Press,3Rd edition.
MMM. An Interactive Grammar of Modern English, Shivendra K. Verma and Hemlatha Nagarajan ,
Frank Bros & CO,2008.
Orient Black Swan, Hyderabad

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IX. List of Text Books / References / Websites / Journals / Others

Text Books:

1. MIND SCAPES, English for tehchnologists and Engineers. Orient Blackswan

Reference Books:

- III. A Practical Course in Effective English Speaking Skills by J.K.Gangal, PHI Publishers, New Delhi.2012
- JJJ. Technical Communication, Meenakshi Raman, Oxford University Press,2011.
- KKK. Spoken English, R.K. Bansal & JB Harrison, Orient Longman,2013, 4Th edition.
- LLL. Murphy's English Grammar with CD, Murphy, Cambridge University Press,3Rd edition.
- MMM. An Interactive Grammar of Modern English, Shivendra K. Verma and Hemlatha Nagarajan , Frank Bros & CO,2008.
Orient Black Swan, Hyderabad

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X. Course Plan:

| Lecture No. | Learning Objective | Topics to be covered | Reference |
|-----------------|---|--|-----------|
| UNIT-I | | | |
| 1 | To able to understand about nature, environment and importance of Pollution Free Environment. | Environmental Consciousness | T1 |
| 2 | To able to understand adverse effects of climate change. | Climate Change | T1 |
| 3 | To be able to understand the importance of trees. | Green Cover | T1 |
| 4 | To develop an awareness about pollutants | Pollution | T1 |
| 5 | To develop the ability to design posters | Environmental Consciousness | T1 |
| 6 | To understand the importance of writing letters, paragraphs. | Language part of Environmental Consciousness | T1 |
| UNIT-II | | | |
| 7 | To be able to link between science and reality | Emerging Technologies | T1 |
| 8 | To develop a passion towards science and technology | Solar Thermal Power | T1 |
| 9 | To discuss technologies in the late twentieth and early twenty first centuries | Cloud Computing | T1 |
| 10 | To teach current and long term applications of Emerging Technologies | Nanotechnology | T1 |
| 11 | To understand the importance of note making, role play and subject verb agreement | Language part of Emerging Technologies | T1 |
| UNIT-III | | | |
| 12 | To be able to discuss the top global concerns of the current century | Global Issues- Introduction | T1 |
| 13 | To identify the list of global Issues that are relevant to India | Child Labour | T1 |
| 14 | To be able to analyze the problems related to food crisis | Food Crisis- Genetic Modification | T1 |
| 15 | To study the concept of innovative technology | E-Waste, Assistive Technology | T1 |
| 16 | To understand the importance of making conversation and E-mail Communication | Language part of Global Issues | T1 |
| UNIT-IV | | | |
| 17 | To understand different means to explore the universe | Space Trek- Introduction | T1 |

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| 18 | To grasp the research work of eminent scientists | Genesis of ISRO | T1 |
| 19 | To analyse the technological advancement and their applications in exploring the universe | Chandrayaan 1&2 Anusat Living Quarters Space Tourism | T1 |
| 20 | To get acquainted with verbal ability , Non-verbal communication and assimilating the views of note making. | Language part of Space Trek | T1 |
| 21 | To create an awareness regarding writing of official reports | Language part of Space Trek | T1 |
| UNIT-V | | | |
| 22 | To expose abreast movements | Media Matters : Introduction | T1 |
| 23 | To give a critical approach to the events | Milestones in Media | T1 |
| 24 | To give an opportunity to analyze and evaluate the current trends | Manipulation by Media | T1 |
| 25 | To give an opportunity to perspective look about the society | Entertainment Media | T1 |
| 26 | To get an idea about interview skills, tweets and blogs | Language part of Media Matters | T1 |

Prepared : G.Sashi Kumar

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