

Technical English (1)	Code & No:	ENG 114
	Credits:	2 (2,0,0)
	Pre-requisite:	PENG 121
	Co-requisite:	None
	Level:	3

Course Description:

This course provides students with a solid foundation of basic sentence form and function. It concentrates on grammatical structures, vocabulary expressions often used in technical and professional contexts. The course aims to consolidate student's previous knowledge of English, and bring it up to an intermediate level which enables them to communicate orally and in writing with a range of audiences.

This course includes the following topics:

1. Describing a series of actions, giving a series of instructions, reporting jobs in progress and completed, discussing how things work, describing method.
2. Describing routines, explaining plans, stating plans and intentions, writing emails, talking about a CV.
3. Explaining dimension limits, comparing two items, asking, offering and checking, specifying requirements, comparing three or more items, collaborative problem solving, reporting on a meeting.
4. Describing a process, describing two parallel processes.
5. Describing use or functions, describing shape and appearance, giving a definition.
6. Describing safety hazards, explaining safety procedures, expressing necessity, giving directions to a location, brainstorming, recommending action.
7. Diagnosing causes of technical problems, suggesting solutions, reporting on work done, responding to complaints, sympathizing, apologizing and reporting damage/ faults.
8. Describing motion, describing how it works, actions in sequence of wave power, simultaneous actions and mechanical cycle of engines, describing a flow cycle of a cooling and heating system.

Course Aims:

The course aims to consolidate student's previous knowledge of English, and bring it up to an intermediate level which enables them to enroll in ESP courses related to their particular majors.

Student Outcomes (SOs):

- (a) An ability to apply knowledge of computing and mathematics appropriate to the program's student outcomes and to the discipline
- (b) An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution
- (c) An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs
- (d) An ability to function effectively on teams to accomplish a common goal
- (e) An understanding of professional, ethical, legal, security and social issues and responsibilities
- (f) An ability to communicate effectively with a range of audiences
- (g) An ability to analyze the local and global impact of computing on individuals, organizations, and society
- (h) Recognition of the need for and an ability to engage in continuing professional development
- (i) An ability to use current techniques, skills, and tools necessary for computing practice.
- (j) An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices. [CS]
- (k) An ability to apply design and development principles in the construction of software systems of varying complexity. [CS]
- (j) An ability to use and apply current technical concepts and practices in the core information technologies of human computer interaction, information management, programming, networking, and web systems and technologies. [IT]
- (k) An ability to identify and analyze user needs and take them into account in the selection, creation, evaluation, and administration of computer-based systems. [IT]
- (l) An ability to effectively integrate IT-based solutions into the user environment. [IT]
- (m) An understanding of best practices and standards and their application. [IT]
- (n) An ability to assist in the creation of an effective project plan. [IT]

Course Learning Outcomes (CLOs):

By the end of the course, students will demonstrate their abilities to do the following :

1. Comprehend and communicate with technical vocabulary orally and in writing.
2. Reinvest major related technical terms and vocabulary.

3. Use grammatical structures related to technical language.
4. Read various types of technical texts and charts with reasonable comprehension using a variety of reading skills such as skimming, scanning, and reading for details.
5. Write short guided texts using relevant vocabulary, basic sentence structure, reasonably correct spelling, and, punctuation.

SOs and CLOs Mapping:

CLO/SO	a	b	c	d	e	f	g	h	i	j	k	l	m	n
CLO1						√								
CLO2						√								
CLO3						√								
CLO4						√								

No.	Topics	Weeks	Teaching hours
1	Describing a series of actions, giving a series of instructions.	1	2
2	Reporting jobs in progress and completed, Discussing how things work, describing method	1	2
3	Describing routines, explaining future plans, stating plans and intentions	1	2
4	Writing emails, talking about your CV.	1	2
5	Explaining dimension limits, comparing two items, asking, offering and checking, specifying requirements.	1	2
6	Comparing three or more items, collaborative problem solving, reporting on a meeting.	1	2
7	Describing a process, describing two parallel processes.	1	2
8	Describing use or functions, describing shape and appearance, giving a definition, describing use or function.	1	2
9	Describing shape and appearance, giving a definition, describing use or function.	1	2

10	Describing safety hazards, explaining safety procedures, expressing necessity	1	2
11	Giving directions to a location, brainstorming, recommending action.	1	2
12	Diagnosing causes of technical problems, suggesting solutions, reporting on work done,	1	2
13	Responding to complaints, sympathizing, apologizing and reporting damage/ faults.	1	2
14	Describing motion, describing how it works, actions in sequence of wave power, simultaneous actions and mechanical cycle of engines, describing a flow cycle of a cooling and heating system.	1	2
Total		14	28

Textbook:

- David Bonamy (2008) Technical English 2 (Course Book), Pearson Longman
- Christopher Jacques(2008) Technical English 2 (Course Book), Pearson Longman

Essential references: