TECHNICAL ENGLISH II

L T P EL

C

HS6251

		SUGGESTED ACTIVITIES	SUGGESTED EVALUATION METHODS
		<ul> <li>Lectures on the Communicative aspects of language use.</li> <li>Practical-Listening, Speaking and Writing</li> </ul>	<ul><li>Quizzes</li><li>Assignments</li><li>Small Group Work</li></ul>
		- Control of the cont	12 0 0 9
MODULE 2	ASKING AND ANSWERING QUESTIONS	Oral Fluency: short conversations (informal) in academic institutions – Group discussions – Role play Activity -Language Focus: speech acts (illocutionary force; making inferences) study of language in context- framing questions (asking & answering questions) - Lexical Development-learning specialist vocabulary related to reading texts-Reading-dialogues and interviews (e.g. interviews with famous personalities)-Writing: dialogue writing-introduction to e-mail writing (personal)	At the end of the module, students should be able to:  Participate in conversations in informal contexts  Learn to use specialist vocabulary in appropriate contexts.
		SUGGESTED ACTIVITIES	SUGGESTED EVALUATION METHODS
		<ul> <li>Lectures on the Communicative aspects of language use.</li> <li>Practical-Listening, Speaking and Writing</li> </ul>	<ul><li> Quizzes</li><li> Assignments</li><li> Small Group Work</li></ul>
			12 0 0 9

MODULE 3	ASKING AND	Oral Fluency: making power point	At the end of the module,
	ANSWERING	presentations (modus operandi to	students should be able to:
	QUESTIONS	SUGGES-DEDAAGTEKITEESanguage	SUGGESTED EVALUATION
		Focus- use of adjectival and	METHODS
		adverbial forms-Lexical	<ul> <li>Make professional</li> </ul>
		Development: content related	Power Point
		vocalendances losset be abbriremiantii coasive	Quizzes Preșentations
		andasponent Beading-passages	Assignments
		on making presentations and	Power Point
		making chetas isternatatione aking	<ul> <li>Presentations and</li> </ul>
		makingdnetas ្បែនមេរាឡងចែកខណ្ត់ slides- <b>Writing</b> practice in note	<ul> <li>sataltasinapkwark</li> </ul>
		making and note taking- <b>Listening</b>	effectively
		<ul> <li>watching a presentation and</li> </ul>	
		completing a worksheet	12 0 0 9
		SUGGESTED ACTIVITIES	
MODULE 5	WRITING	SUGGESTED ACTIVITIES Oral Fluency: Asking and	SUGGESTED EVALUATION AT THE PIO STATE THE PI
	PROJECT	answering questions (e.g.	students should be able to:
	REPORTS	discussion on training received in Lectures on the Communicative	Quizzes
		school/imaginary training	Ask and answer Assignments
		programme of indicate forms of	<ul> <li>Assignments different types of</li> <li>Power Point</li> </ul>
		direct and indirect forms of	Presentations
		narration-use of simple past and past continuous of simple past and	Small Group Work
		verbands with modal verbs-	Small Group Work
		formation of questions	
		(interrogative and yes/no type of	Write a purpose-
		questions)-passive voice- <b>Lexical</b>	oriented, factual,
		<b>Development</b> : factual vs. emotive	
		use of vocabulary-reporting verbs-	report 12 0 0 9
		Reading: industry /internship	
MODULE 4	ELABORATI	GPATENEILUS: OF POPT OF REVIRINING BINOGATUMA VSIS-OF DIE PRAY OYIGEB)- Listening: Work resolution of the listening work resolution.	At the end of the module,
	NG ON	Broomana (model to be avoyided)-	students should be able to:
	ONE'S	Listening: to a report and abiliary work assignments-	
	QUALIFICATI	Camplitaine Poccus: active voice-use	Write a job application
	ONS AND		
	<b>ACHIEVEME</b>	of punctuation marks-simple past SUGGESTED ACTIVITIES and simple present perfect tenses-	SUGGESTED EVALUATION
	NTS	Lexical Development: specialist	METHODS data forms
		vocabulary (letter writing)-Reading	
		• visiontstatennethewookisouminative	Quizzes     Read and understand     Assignments
		job appression largement pe	Assignments     the nurroses of
		purpose- <b>Listening</b> : listening to a	the purposes of
		talk and making notes- Writing- applyingtical a job (letter & e-mail) - bio data/restine	plifferentatypes of
		applyifig for a job (letter & e-mail) -	StritatingGroup Work
		DIO data/resume	
			12 0 0 9

### METHODS TO BE USED DURING CLASSROOM TEACHING

The following methods would be used to achieve programme objectives.

# For language skills development:

- 1. Focus on fluency first for students with limited proficiency. Students would first develop the confidence to express themselves without being inhibited by errors.
- 2. Guided activities for speaking and writing with vocabulary and information provided as input.
- Focus on simplicity and clarity than on the use of unnecessarily complex sentences and high- sounding words. Focus on clear organization of any spoken or written message.
- 4. Adequate preparation time given for demonstration of skills.
- 5. Sensitivity to issues of shyness and introversion and avoiding coercive methods.
- 6. Use of relevant techno-social topics on which students have opinion.
- 7. Use of listening and reading to improve vocabulary.
- 8. Peer evaluation using feedback templates to allow students to practice in small groups on their own. A session with 30 students needs to allow adequate opportunity to all students.
- 9. Teacher correction of individual writing scripts with feedback.

#### FOR COMMUNICATION SKILLS DEVELOPMENT:

- 1. Focus on essential and time- tested principles of communication that are applicable in most contexts.
- 2. Avoiding formulae but providing basic templates that can be adapted to situations.
- 3. Avoiding complex behavioral theories or pop psychology as communication guides.
- 4. Using situations that students would typically encounter on campus and later at work
- 5. Gradual building of confidence by progressing from communication in front of small groups to communication in front of larger groups.

## **ASSESSMENT**

Skills other than speaking would be tested using a paper and pencil test. Speaking skills will be tested using a verbal test.

### **TEXTBOOK:**

1. ENGLISH Today: Technical Communication for Science, Engineering and Technology. Board of Editors, Department of English, Anna University. Orient Black Swan (Volumes 1&2) 2017.

### **REFERENCES:**

- 1. Learning to Communicate: Dr. V. Chellammal, Allied Publishers, 2002.
- 2. English for Technical Communication: N.P. Sudharshana, C. Savitha, Cambridge University Press, 2016.

### **EVALUATION METHOD TO BE USED:**

SI. no	Category of Courses	Continuous Assessment	Mid –Semester Assessment	End Semester
1.	Theory	40	20	40

CY6251	ENGINEERING CHEMISTRY	L	Т	Р	EL	CREDITS
		3	0	2	3	5

#### **OBJECTIVES:**

- To develop an understanding about fundamentals of polymer chemistry, preparation and properties of polymers
- To acquire knowledge in photochemistry and spectroscopy
- To understand the concepts of surface chemistry and catalysis.
- To impart basic knowledge on chemical thermodynamics.
- To get acquainted with the basic concepts of nano chemistry.
- To understand the chemistry of the fabrication of integrated circuits
- To know the types of specialty materials used in the electronics/electrical industry.

MODULE I:	L	T	Р	EL
	3	0	2	3

Polymer Chemistry: Introduction: Functionality; Classification of Polymers- Natural and Synthetic, Thermoplastic and Thermosetting. Types and Mechanism of Polymerization: Addition (Free Radical, Cationic, Anionic and Living); Condensation and Copolymerization. Piezo and pyro electric polymers; Photoresists – Positive and negative.

# **SUGGESTED ACTIVITIES:**

- In Class activity for Functionality and Mechanism of polymerisation
- Practical Thermal free radical polymerisation of styrene/MMA

#### SUGGESTED EVALUATION METHODS:

- Tutorial: Deduce type of polymer from monomers with different functionalities
- Assignment: Predicting mechanism of polymerization for few important monomers
- Quizzes

MODULE II:	L	Т	Р	EL
	3	0	2	3

Properties of Polymers: T<sub>g</sub>, Tacticity, Degree of Polymerization & Molecular Weight - Weight Average, Number Average and Polydispersity Index. Techniques of Polymerization: Bulk, Emulsion, Solution and Suspension

#### SUGGESTED ACTIVITIES:

- Flipped classroom and activity
- Proofs and Simplification in class
- Practical Determination of molecular weight of PVA using Ostwald viscometer