

Discipline	ENGLISH						
Course Code	UK1AECENG111						
Course Title	Technology, Science	e and Imagin	ation 1				
Type of Course	AEC						
Semester	I						
Academic	100-199						
Level							
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours/Week		
	3	2 hours	-	2 hours	4		
Pre-requisites	1. Basic Knowledge	in English					
Course	This Ability Enhancement Course in English equips students with the						
Summary	necessary communication skills to succeed in their academic and						
	professional careers. The course covers important points of intersection						
	between the sciences and the humanities through exposure to a variety of						
	texts from different of	disciplines.					

Detailed Syllabus:

Modul	Unit	Content	Hr
e			S
I		Society and Science	12
		Technology and society – social responsibility – how science can be	
	1	applied to real life social issues	
		When I Heard the Learn'd Astronomer – Walt Whitman https://www.poetryfoundation.org/poems/45479/when-i-heard-the-learnd-astronomer	
		"How PC Mahalanobis devised a survey that has helped India measure inequality for decades" https://scroll.in/article/843983/how-pc-mahalanobis-devised-a-survey-that-has-helped-india-measure-inequality-for-70-years	
		Suggested viewing: Why We Need Engineers Now More Than Ever Elanor Huntington https://www.youtube.com/watch?v=WOAgllKD-90	

		Impact of Technology on Society	
		https://www.geeksforgeeks.org/impact-of-technology-on-society/	
		maps/ www.gooks/orgows.org/impact of teelmology on society/	
		Practicum:	
		 Speaking on the relationship between technology and society Listening to talks/speeches about what it means to be an engineer 	
		3. Writing an essay about the way scientists have contributed to the	
		betterment of society	
		4. Reading articles and essays regarding technology and society	
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II		Gender and the Sciences	12
		Gender discrimination and bias – gender equity – patriarchy –	
		Di con Alla Bala	
		Planetarium – Adrienne Rich	
		https://www.poetryfoundation.org/poems/46568/planetarium-	
		<u>56d2267df376c</u>	
		Neil Gaiman – The Mushroom Hunters	
		https://www.themarginalian.org/2017/04/26/the-mushroom-hunters-neil-	
		gaiman/	
		gaman	
		Craggated viewings	
		Suggested viewing: Hidden Figures (2016)	
		Hidden Figures (2010)	
		Suggested Reading:	
		"Why do so many women leave the field?" by Susan S Sibley, Harvard	
		Business Review.	
		https://hbr.org/2016/08/why-do-so-many-women-who-study-engineering-	
		<u>leave-the-field</u>	
	8	Practicum:	
		1. Writing an essay about how the STEM field can become a more	
		inclusive one	
		2. Speaking about the contributions of a woman or a member of a	
		marginalised gender community to technology	
		3. Developing a vocabulary of inclusivity within the STEM field	
		4. Listening to the experiences of women in STEM	
III		Science, Technology and the Future	12
		The industrial revolution – mechanisation of daily life – Changes in	
		quality of life brought by technology – the future of technological	
		advancement – how technology has changed over the years	
	1		

	All the Small Things – Dana Martens https://danamartens.tech/2016/08/30/all-the-small-things-a-short-story-on-the-evils-of-technology/ Letter to Someone Living Fifty Years from Now – Matthew Olzman https://poets.org/poem/letter-someone-living-fifty-years-now Suggested Reading The Man in Asbestos – Stepehen Leacock https://gutenberg.net.au/ebooks06/0602131h.html Suggested Viewing The Future of Humanity – Yuval Noah Harari https://www.youtube.com/watch?v=XOmQqBX6Dn4	
	Practicum: 1. Speaking on the impact of technology on the future of humanity 2. Reading works that discuss how technology can be beneficial and deadly. 3. Listening to speeches about the ways that the sciences affect future life. 4. Writing a short essay on one way that technology has impacted humanity	
IV	Science, Technology and the Environment	12
	Impact of scientific advancements on the environment – sustainable development – coexistence of technology and nature – environmental crises – global warming – environmental disasters "All Watched Over By Machines of Loving Grace" – Richard Brautigan https://allpoetry.com/All-Watched-Over-By-Machines-Of-Loving-Grace	
	Greta Thunberg's speech at the UN Climate Action Summit 2019 https://www.npr.org/2019/09/23/763452863/transcript-greta-thunbergs-speech-at-the-u-n-climate-action-summit	
	Suggested Viewing Nausicaa of the Valley of the Wind (1984)	
	Suggested Reading: Deepwater Horizon Oil Spill - https://www.britannica.com/event/Deepwater-Horizon-oil-spill/Environmental-costs	
	Practicum:	

	1. Write an essay on how advancements in technology can be beneficial						
	to the environment						
	2. Listen to discussions on climate change and other environmental						
	concerns						
	3. Speak about an environmental issue being faced in one's locality						
	4. Reading articles about various events that have had significant impact						
	on the environment						
V	Perceiving Our Planet	12					
,	Space Exploration – the Space Race - Space Travel – The Earth's place in						
	the universe						
	the universe						
	Third Rock from the Sun –Dorianne Laux						
	https://poets.org/poem/third-rock-sun						
	https://poets.org/poeth/time-rock-sun						
	A Pale Blue Dot – Carl Sagan						
	https://www.planetary.org/worlds/pale-blue-dot						
	integration with integration of the doc						
	Suggested Viewing						
	Apollo 13 (1995)						
	Mission Mangal (2019)						
	iviission iviangai (2017)						
	Practicum:						
	1. Write an essay on the history of mankind's aspirations to the stars						
	2. Read about the experiences of astronauts who have travelled to space						
	3. Speak about the challenges and promises of space exploration in the						
	future						
	4. Develop a vocabulary of various terms based on space exploration						

References:

Online Links:

Purdue Online Writing Lab (OWL): https://owl.purdue.edu/

British Council Learn English: https://learnenglish.britishcouncil.org/

TED Talks: https://www.ted.com/

Oxford Free English Lessons: <u>Free English Lessons - Oxford Online English</u>

Texts and Journal Articles:

Crystal, David. A Dictionary of Linguistics and Phonetics. Shang Wu Yin Shu Guan, 2002.

Foster, Thomas C. How to Read Literature like a Professor: A Newly Expanded, Lively, and Entertaining Guide to Reading between the Lines. HarperPerennial, 2024.

Jones, Daniel, et al. *Cambridge English Pronouncing Dictionary*. Cambridge University Press, 2015.

Leben, William R., Brett Kessler, and Keith Denning, *English Vocabulary Elements: A Course in the Structure of English Words*, 3rd edn (New York, 2023; online edn, Oxford Academic, 19 Jan. 2023), https://doi.org/10.1093/oso/9780190925475.001.0001

McWhorter, Kathleen T. *The Writer's Express: A Paragraph and Essay Text with Readings*. Houghton Mifflin Co., 2001.

Prose, Francine. Reading Like a Writer: A Guide for People Who Love Books and for Those Who Want to Write Them. Union Books, 2012.

Strunk, William, and E. B. White. *The Elements of Style*. Macmillan, 1979.

Wallace, Catherine. Critical Reading in Language Education. Palgrave Macmillan, 2005.

Roach, Peter. English Phonetics and Phonology: A Practical Course. 4th ed., Cambridge;

New York, Cambridge University Press, 2009.

Bhatnagar, Nitin. Effective Communication and Soft Skills. Pearson, 2011.

Moothathu, V K. Concise English Grammar. 26 Jan. 2013.

Bakshi, Raj N. A Course in English Grammar. India: Orient Black Swan, 2000

Fernandez, Agna. Generic Skills for Employability. UK: Cambridge University Press, 2020

Shobha, K N. Lourdes Javani Rayen. *Communicative English: A Workbook*. UK: Cambridge University Press, 2023

V, Syamala. *A Textbook of English Phonetics and Structure for Indian Students*. Sharath Ganga Publications, 2010.

Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Identify and analyse various barriers to effective listening in spoken communication	U, R, An	1,6
CO-2	Apply effective listening skills for different purposes and demonstrate proper communication etiquette for different situations.	R, U, Ap,	2,5,6
CO-3	Enhance their analytical writing skills through real life practical situations	U, An,	6,9,12
CO-4	Develop an understanding of the multidisciplinarity of science and the humanities	An, Ap	2,9,11
CO-5	Create pieces of writing which proves the multidisciplinarity of language.	An, Ap,C	6,12,13,

R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create

Note: 1 or 2 COs/module

Name of the Course: Credits: 4:0:0 (Lecture:Tutorial:Practical)

CO No.	СО	PO/PS O	Cognitiv e Level	Knowled ge Category	Lecture (L)/Tuto rial (T)	Practical (P)
CO-1	Identify and analyse various barriers to effective listening in spoken communication	PO 4,5,7 PSO 1,6	U, R, An	F, C	L	

CO-2	Apply effective listening skills for different purposes and demonstrate proper communication etiquette for different situations.	PO 1,3,4,5, 8 PSO 2,5,6	R, U, Ap,	P,M	L	
CO-3	Enhance their analytical writing skills through real life practical situations	PO 1,2,4,5, 6,8 PSO 6,9,12	U, An,	С	L	
CO-4	Develop an understanding of the multidisciplinarity of science and the humanities	PO 1,2,4,8 PSO 2,9,11	An, Ap	P	L	
CO-5	Create pieces of writing which proves the multidisciplinarity of language.	PO 3,4,5,6 PSO 6,12,13,	An, Ap,C			P

F-Factual, C- Conceptual, P-Procedural, M-Metacognitive

Mapping of COs with PSOs and POs:

	PSO 1	PSO 2	PSO 3	PSO4	PS O5	PS O6	PO1	PO2	PO3	PO4	PO5	PO6
CO 1	2					3				2	3	
CO 2		2			3	1	3		2	1	2	
CO 3						2	2	1		2	1	3
CO 4		3					2	3		1		
CO 5						3			3	2	1	2

Correlation Levels:

Lev el	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

Mapping of COs to Assessment Rubrics: