

CO 1	3				-	-				3		
CO 2	2				-	3	3	2		1		
CO 3	1				-	2	1			1	3	
CO 4	2					2	2		3	2	1	
CO 5	3					1	1	2		1	3	

**Correlation Levels:**

Level	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 :**

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓

CO 2	✓			✓
CO 3	✓			✓
CO 4	✓	✓		✓
CO 5	✓	✓		✓



### University of Kerala

Discipline	<b>English</b>				
Course Code	UK2AECENG103				
Course Title	Science Through the Prism of English II				
Type of Course	AEC				
Semester	II				
Academic Level	100-199				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	3	2 hours	-	2 hours	4
Pre-requisites	1. 2.				
Course Summary	This dynamic course is designed to enhance English language proficiency while immersing students in the fascinating world of science. With a				

	special emphasis on popular science and science oriented narratives, the course aims to cultivate a scientific outlook among students. Students are also familiarised with the specialised language of science.
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**Detailed Syllabus:**

Module	Unit	Content	Hrs
<b>I</b>	<b>Popular Science</b>		<b>12</b>
	1	<p>A Beginner’s Guide to Writing a Popular Science Article, by a Teacher- Lakshmana Rao <a href="https://science.thewire.in/the-sciences/a-beginners-guide-to-writing-a-popular-science-article-by-a-teacher/">https://science.thewire.in/the-sciences/a-beginners-guide-to-writing-a-popular-science-article-by-a-teacher/</a></p> <p>Visualizing Science: Illustration and Beyond- Jen Christiansen <a href="https://www.scientificamerican.com/blog/sa-visual/visualizing-science-illustration-and-beyond/">https://www.scientificamerican.com/blog/sa-visual/visualizing-science-illustration-and-beyond/</a></p> <p><b>Suggested Reading</b></p> <p>“One voice in the cosmic fugue”, Cosmos, Chapter II -Carl Sagan  <a href="https://archive.org/details/cosmos_201910/mode/1up">https://archive.org/details/cosmos_201910/mode/1up</a></p> <p><b>Suggested Viewing</b></p> <p>146 Years of Popular Science <a href="https://www.youtube.com/watch?v=iSzWdDHD19E">https://www.youtube.com/watch?v=iSzWdDHD19E</a></p>	
	2	<b>Practicum</b>	

		<p>Listen to popular science talks</p> <p>Hold discussions about ways to make science appealing</p> <p>Read and summarise the points of the chapter 2 of <i>Cosmos</i></p> <p>Write about any scientific concept in language that would appeal to laymen</p>	
<b>II</b>	<b>Life Science</b>		12
	4	<p>Do trees really stay in touch via a ‘wood-wide web’? Here’s what the evidence says- The Conversation</p> <p><a href="https://theconversation.com/do-trees-really-stay-in-touch-via-a-wood-wide-web-heres-what-the-evidence-says-199806#:~:text=Through%20the%20connections%20in%20the,the%20wood%2Dwide%20web">https://theconversation.com/do-trees-really-stay-in-touch-via-a-wood-wide-web-heres-what-the-evidence-says-199806#:~:text=Through%20the%20connections%20in%20the,the%20wood%2Dwide%20web</a></p> <p>“The Mushroom Hunters” by Neil Gaiman</p> <p><a href="https://chrissysenecal.com/the-mushroom-hunters-by-neil-gaiman/#:~:text=%E2%80%9CThe%20Mushroom%20Hunters%2C%E2%80%9D%20a%20poem%20by%20Neil%20Gaiman%2C,several%20of%20which%20I%20have%20featured%20stories%20about.">https://chrissysenecal.com/the-mushroom-hunters-by-neil-gaiman/#:~:text=%E2%80%9CThe%20Mushroom%20Hunters%2C%E2%80%9D%20a%20poem%20by%20Neil%20Gaiman%2C,several%20of%20which%20I%20have%20featured%20stories%20about.</a></p> <p><b>Suggested Reading</b></p> <p>Mushroom Hunters audio and article</p> <p><a href="https://www.themarginalian.org/2017/04/26/the-mushroom-hunters-neil-gaiman/">https://www.themarginalian.org/2017/04/26/the-mushroom-hunters-neil-gaiman/</a></p>	

		<p><b>Suggested Viewing</b></p> <p>Secret Lives of Cells– Life Sciences</p> <p><a href="https://youtu.be/fwW86e3tFv4?si=pUimAS6EJtZb-Vx6">https://youtu.be/fwW86e3tFv4?si=pUimAS6EJtZb-Vx6</a></p>	
	4	<p>Practicum</p> <ol style="list-style-type: none"> <li>1. Listen to podcasts on life sciences</li> <li>2. Have a discussion about the importance of observing varied life forms.</li> <li>3. Read articles on life sciences</li> <li>4. Write about any life form that interests you</li> </ol>	
<b>III</b>	<b>Imagined Apocalypse</b>		<b>12</b>
	5	<p>Ice Coming- Hellen Dunmore</p> <p><a href="https://www.thereader.org.uk/featured-anthology-earth-shattering-hellen-dunmore/">https://www.thereader.org.uk/featured-anthology-earth-shattering-hellen-dunmore/</a></p> <p><i>The Road</i> - John Hillcoat (Dir) 2009</p> <p><a href="https://www.youtube.com/watch?v=x6arDIAAF4Y&amp;list=PL3C96EBF7B0A92CC1">https://www.youtube.com/watch?v=x6arDIAAF4Y&amp;list=PL3C96EBF7B0A92CC1</a> ( Parts 1-8)</p> <p><b>Suggested Reading</b></p> <p><i>Oryx and Crake</i> by Margaret Atwood (Novel)</p> <p>Apocalypse When - BBC graphic story</p> <p><a href="https://www.bbc.com/future/bespoke/20141215-apocalypse-when/index.html">https://www.bbc.com/future/bespoke/20141215-apocalypse-when/index.html</a></p>	
	6	<p>Practicum</p> <p>Listen to discussions on the fate of our planet</p> <p>Speech on the Future of Humanity</p> <p>Make a Reading List of famous Sci Fi stories</p> <p>Write an analytical Essay on any one of the stories listed</p>	
<b>IV</b>	<b>Science Fiction</b>		<b>12</b>
	7	<p>“ A Sound of Thunder” Ray Bradbury</p> <p><a href="https://www.astro.sunysb.edu/fwalter/AST389/ASoundofThunder.pdf">https://www.astro.sunysb.edu/fwalter/AST389/ASoundofThunder.pdf</a></p>	

	<p>Lucy(2014) - by Luc Besson</p> <p><a href="https://www.youtube.com/watch?v=04fZKG1HAIo">https://www.youtube.com/watch?v=04fZKG1HAIo</a></p> <p><b>Suggested Reading</b></p> <p>1. “The Last Question” by Isaac Asimov  <a href="https://users.ece.cmu.edu/~gamvrosi/thelastq.html">https://users.ece.cmu.edu/~gamvrosi/thelastq.html</a></p> <p><b>Suggested Watching</b></p> <p><i>ET</i> - Steven Spielberg Dir (1982)</p> <p><a href="https://www.youtube.com/watch?v=9MNUeLGjecs">https://www.youtube.com/watch?v=9MNUeLGjecs</a></p>	
8	<p>Practicum</p> <p>1.Listen to interviews of scientists where they talk about future possibilities</p> <p>2.Speak about a scientific invention that you wish for</p> <p>3. Read science fiction stories</p> <p>4.Write a film review of any sci fi movie of your choice</p>	
*****V	<b>Scientific Vocabulary</b>	<b>12</b>
9	<p>Suggested Reading/Viewing</p> <p>When I encountered language barriers in my career, here’s how I broke through</p> <p><a href="https://www.science.org/content/article/when-i-encountered-language-barriers-my-career-here-s-how-i-broke-through">https://www.science.org/content/article/when-i-encountered-language-barriers-my-career-here-s-how-i-broke-through</a></p> <p>“Mute dancers: How to Watch a Hummingbird”</p> <p><a href="https://www.nytimes.com/1994/05/29/magazine/mute-dancers-how-to-watch-a-hummingbird.html">https://www.nytimes.com/1994/05/29/magazine/mute-dancers-how-to-watch-a-hummingbird.html</a></p>	

	<p>Jargon: An insular community of science- Ethan Gysbertsen  <a href="https://youtu.be/qRmY_N3t7FM?si=rRck8mo-5eRwVoQG">https://youtu.be/qRmY_N3t7FM?si=rRck8mo-5eRwVoQG</a></p> <p>That's a Mouthful: The Pitfalls of Scientific Jargon  <a href="https://youtu.be/3Vu3dQWAYuM?feature=shared">https://youtu.be/3Vu3dQWAYuM?feature=shared</a></p>	
10	<p>Practicum</p> <p>Listen to science podcasts</p> <p>Collect more terms related to Science</p> <p>Discuss scientific terms that are confusing to you</p> <p>Write a summary of a science talk you listened to</p>	

### References:

#### Online Links:

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

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

Oxford Free English Lessons: [Free English Lessons - Oxford Online English](#)

British Council: <https://learnenglish.britishcouncil.org/apps/learnenglish-sounds-right>

#### Texts and Journal Articles:

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

Beck, Andrew, et al. Communication Studies: The Essential Introduction. Routledge, 2002.

Cambridge Phrasal Verbs Dictionary. Cambridge University Press, 2016.

Greene, Anne E. Writing Science in Plain English. Univ. of Chicago Press, 2013.

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>

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

Swan, Michael. Practical English Usage. Oxford University Press, 2020.

Walter, Elizabeth, and Kate Woodford. Collins Easy Learning Writing. HarperCollins, 2015.

Zinsser, William. On Writing Well. Harper Paperbacks, 2013.

**Course Outcomes**

**Course Outcomes**

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

*Note: 1 or 2 COs/module*

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Understanding the different varieties of scientific narratives	U	1,2
CO-2	Remember and analyse the language used in Popular science	R	1,2,4
CO-3	Differentiate the use of language employed in different fields of narration ,based on the study of scientific language.	R,Ap	4,9
CO-4	Analyse the nuances of the language used in the narration of different fields of study	An	9,11
CO-5	Create your own narratives based on your understanding of narratives in language	C	6,12,14

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

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
1	Understanding the different varieties of scientific narratives	PO 1,4,7,8	U	F, C	L	



		PSO 1,2				
2	Remember and analyse the language used in Popular science	PO 1,2,4,5,6, 7,8  PSO 1,2,4	R	C,M	L	
3	Differentiate the use of language employed in different fields of narration ,based on the study of scientific language.	PO 1,2,5,6,7, 8  PSO 4,9	R,Ap	M,C	L	
4	Analyse the nuances of the language used in the narration of different fields of study	PO 1,2,4,8  PSO 9,11	An	M	L	
5	Create your own narratives based on your understanding of narratives in language	PO 3,4,5,6,8  PSO 6,12,14	C	P		P

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

**Mapping of COs with PSOs and POs :**

	PSO 1	PSO 2	PSO 3	PSO4	PSO5	PSO 6	PO1	PO2	PO3	PO4	PO5	PO6
<b>CO 1</b>	2	3					2			3		
<b>CO 2</b>	3	1		2			1	2		1	3	2
<b>CO 3</b>				3			3	2			1	2
<b>CO 4</b>							1	1		2		
<b>CO 5</b>						2			3	1	2	2

**Correlation Levels:**

<b>Level</b>	<b>Correlation</b>
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### Assessment Rubrics:

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### Mapping of COs to Assessment Rubrics :

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CO 2	✓	✓	✓	✓
CO 3	✓	✓	✓	✓
CO 4	✓	✓	✓	✓
CO 5	✓	✓	✓	✓



University of Kerala

Discipline	English
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