

香川高等専門学校		開講年度	令和06年度 (2024年度)		授業科目	工業英語	
科目基礎情報							
科目番号	7007		科目区分		工学基礎 / 選択		
授業形態	講義		単位の種別と単位数		学修単位: 2		
開設学科	創造工学専攻（機械電子工学コース）（2024年度以降入学者）		対象学年		専1		
開設期	後期		週時間数		2		
教科書/教材	1 Advances in Science: Learning from the Past, Looking to the Future 2 A Shorter Course in Scientific and Technical English 3 A Shorter Course in Science and Technology Vocabulary (All of the textbooks are published by NAN' UN-DO)						
担当教員	森下 二郎						
到達目標							
Students will become able to read books of their interest in English, make academic presentations in English, and write scientific paper in English							
ルーブリック							
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
評価項目1（English Proficiency）		Produce high-quality presentation and term paper		Produce moderate-quality presentation and term paper		Produce low-quality presentation and term paper	
評価項目2（Class Participation）		Demonstrate an ability to promote spontaneous dialogue among the students		Demonstrate an ability to answer questions		Remain silent	
評価項目3（Independent Study）		Conduct an extensive research outside the class		Conduct research outside the class		Conduct little research outside the class	
学科の到達目標項目との関係							
教育方法等							
概要		This Scientific and Technical English course offers a wide range of scientific topics and a variety of activities in order to enhance English skills essential for science major students to conduct academic research in English.					
授業の進め方・方法		Except for translation exercises, class sessions are held entirely in English. Each week completes one unit of the text book Advances in Science, and two chapters of two books titled A Shorter Course. Students will be given an opportunity to make an individual presentation in the later part of the course, and asked to submit term paper at the last class. Because this course grants academic credit as opposed to school credit, there will be coursework to be done outside the class.					
注意点		The course schedule is subject to change. Before attending the class, students must complete the required reading of the textbook Advances and come to class ready to play an active role. There will be a 20-minute individual presentation and a 1,500-word paper as coursework. Students will be later notified of the details on these assignments. Since this course is elective and intended for students at advanced level, students must carefully weigh up their own English proficiency before signing up for the class.					
授業の属性・履修上の区分							
<input checked="" type="checkbox"/> アクティブラーニング		<input checked="" type="checkbox"/> ICT 利用		<input type="checkbox"/> 遠隔授業対応		<input checked="" type="checkbox"/> 実務経験のある教員による授業	
授業計画							
		週	授業内容		週ごとの到達目標		
後期	3rdQ	1週	Course introduction		Become well prepared for the course		
		2週	Unit 1 of Advances: Chapter 1 & 2 of two A Shorter Course		Become able to discuss issues on a scientific method		
		3週	Unit 2 of Advances: Chapter 3 & 4 of two A Shorter Course		Become able to discuss issues on the solar system		
		4週	Unit 3 of Advances: Chapter 5 & 6 of two A Shorter Course		Become able to discuss issues on mathematics		
		5週	Unit 4 of Advances: Chapter 7 & 8 of two A Shorter Course		Become able to discuss issues on electric light		
		6週	Unit 5 of Advances: Chapter 9 & 10 of two A Shorter Course		Become able to discuss issues on radiation		
		7週	Unit 6 of Advances: Chapter 11 & 12 of two A Shorter Course		Become able to discuss issues on vaccination		
		8週	Unit 7 of Advances: Chapter 13 & 14 of two A Shorter Course		Become able to discuss issues on gravity		
	4thQ	9週	Unit 8 of Advances: Chapter 15 & 16 of two A Shorter Course		Become able to discuss issues on atoms		
		10週	Unit 9 of Advances: Chapter 17 & 18 of two A Shorter Course		Become able to discuss issues on interstellar travel		
		11週	Unit 10 of Advances: Chapter 19 & 20 of two A Shorter Course		Become able to discuss issues on energy		
		12週	Unit 11 of Advances; Presentations		Become able to discuss issues on nanotechnology		
		13週	Unit 12 of Advances; Presentations		Become able to discuss issues on genetic engineering		
		14週	Unit 13 of Advances; Presentations		Become able to discuss issues on quantum computing		

		15週	Unit 14 of Advances;Submission of term paper		Become able to discuss issues on artificial intelligence		
		16週	Review		Became able to understand what needs to be done in the future		
モデルコアカリキュラムの学習内容と到達目標							
分類		分野	学習内容	学習内容の到達目標		到達レベル	授業週
評価割合							
	Term Paper		Individual Presentation	in-Class Participation	Independent Study	合計	
総合評価割合		60	15	15	10	100	
評価項目1（English Proficiency）		60	15	0	0	75	
評価項目2（Class Participation）		0	0	15	0	15	
評価項目3（Independent Study）		0	0	0	10	10	