

	I. Course Identification and General Information:							
1.	Course Title:	Scier	ntific English.					
2.	Course Code & Number:	BR1	11.					
			C.H			TOTAL		
3.	3. Credit Hours:		Seminar/Tu.	Pr	Tr.	CR. HRS.		
			-	-	-	2		
4.	Study level/ semester at which this course is offered:	Second Year-First Semester.						
5.	Pre –requisite (if any):	English I and English II.						
6.	Co –requisite (if any):	None	2.					
7.	Program (s) in which the course is offered:	Bion	nedical Enginee	ering Prog	gram.			
8.	Language of teaching the course:	Engl	ish Language.					
9.	Location of teaching the course:	Biomedical Engineering Department.						
10	Prepared By:	Assoc. Prof. Dr. Abdul-Malik Momin.						
11 •	Date of Approval							

# **Course Specification of Scientific English**

### **II.** Course Description:

This course is designed to develop the communicative performance of Engineers who wish to improve their abilities in English when dealing with their staff, other managers, suppliers, external colleagues and other Engineers internally or internationally as needed, with the correct vocabulary, phrasing, appropriateness, context and style. The role of Technical English language on modern engineering education will be targeted. Most students need to write essays and reports for course work. Yet writing good academic English taking into account the terminologies is one of the most demanding tasks students face. Our English for Engineer courses can focus on widening the student's knowledge of engineering terminology or equally

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Olofi	Algorafi	AL-Bukhaiti	Ass. Prof. Dr. Huda Al-Emad
		Rector of	Sana'a University
		Prof. Dr. Al-Qa	assim Mohammed Abbas
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on building their confidence in using the correct language for the situation at hand. Before this context the students should be aware of Academic English taking into account the approach of writing using grammatical and structure of the grammar. After completing this course. students will be able to understand and apply the most common technical vocabulary in the area of Biomedicall Engineering.

III	. Alignments of the Course Intended learning outcomes (CILOs)	Referenced PILOs
a1	Classify general principles of academic writing and scientific techniques using basic grammar.	A2
a2	Express the main ideas related to the topics of writing with effect vocabulary.	A4
b1	Examine the effect of scientific writing in the management process using best essays.	В3
c1	Apply different techniques for writing a report in the area of Mechanical Engineering with special terminologies.	C1
d1	Assess to time factor for completion of different processes required in this course.	D4
d2	Cooperate effectively within the team in presenting the technical reports.	D5

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to							
Teaching Strategies and Assessment Strategies:							
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies					
<b>a1-</b> Classify general principles of academic writing and scientific techniques using basic grammar.	Active Lectures.	<ul> <li>Written Exam.</li> <li>Homework.</li> </ul>					
<ul><li>a2- Express the main ideas related to the topics</li><li>of writing with effect vocabulary.</li></ul>		• Homework.					
d of Department Quality Assurance Unit Dean of the Faculty Academic Development							



	(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:					
	Course Intended Learning OutcomesTeaching strategiesAssessment Strategies					
b1-	Examine the effect of scientific writing in the management process using best essays.	<ul><li>Active Lectures.</li><li>Seminars.</li><li>Projects.</li></ul>	<ul><li>Examination.</li><li>Homework.</li><li>Project Reports.</li></ul>			

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© Alignment Course Intended Learning Outcomes of Professional and Practical Skills to
Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1-	Apply different techniques for writing a report in the area of Mechanical Engineering with special terminologies.	<ul> <li>Problem Based Learning.</li> </ul>	• Presentations.

· · ·	(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:						
	Course Intended Learning Outcomes Teaching strategies Assessment Strategies						
<b>d1-</b> of	Assess to time factor for completion different processes required in this course	<ul><li>Team Work.</li><li>Directed Self –</li></ul>	<ul> <li>Individual and Group Projects Reports.</li> </ul>				
d2-	Cooperate effectively within the team in presenting the technical reports.	Study.	• Presentations				

IV.	IV. Course Content:						
	A – Theoretic	al Aspect:					
Order	Units/Topics List	Learning Outcomes	Sub -Topics List	Number of Weeks	Contact Hours		
1.	Introduction to the Courses of English I and English II.	a1, a2.	• Fast Revision.	1	2		
2.	The English Tense System.	a1, a2, b1.	<ul> <li>Present Tense.</li> <li>Present Continuous Tense.</li> <li>Present Perfect Tense.</li> <li>Present Perfect Continuous Tense.</li> </ul>	2	4		



IV. Course Content: A – Theoretical Aspect:						
Order	Units/Topics List	Learning Outcomes	Sub -Topics List	Number of Weeks	Contact Hours	
			<ul> <li>Past Tense.</li> <li>Past Continuous Tense.</li> <li>Past Perfect Tense.</li> <li>Past Perfect Continuous Tense.</li> <li>Future Tense.</li> <li>Future Continuous Tense.</li> <li>Future Perfect Tense.</li> <li>Future Perfect Continuous Tense.</li> <li>Active and Passive.</li> <li>Using Nouns and Adjectives.</li> <li>Abstract Nouns.</li> <li>Types of Conjunctions.</li> </ul>			
3.	Specialized Terminologies in Mechanical Engineering.	a1, a2, b1, c1, d1, d2.	<ul> <li>Basic Terminologies for Engineering Mechanics.</li> <li>Basic Terminologies for Computer.</li> <li>Basic Terminologies for Thermal System.</li> <li>Basic Terminologies for Production Engineering and Design.</li> <li>Basic Terminologies for Industrial Safety and Training.</li> <li>Some Applied Cases:</li> <li>How to Read Piping and Instrumentation Diagrams?</li> <li>Electrical Power Equipment.</li> <li>Introduction to Process Control</li> </ul>	4	8	

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IV.	IV. Course Content:						
	A – Theoretical Aspect:						
Order	Units/Topics List	Learning Outcomes	Sub -Topics List	Number of Weeks	Contact Hours		
			<ul><li>and Instrumentation.</li><li>Flow of Fluids through Pipes, Fittings, Valves and Pumps.</li></ul>				
4.	Mid-Term Exam.	a1, a2, b1, c1.	• The First Three Chapters.	1	2		
5.	Punctuation.	a1, a2, b1, d1, d2.	<ul> <li>Capitals.</li> <li>Apostrophes.</li> <li>Semi-Colons.</li> <li>Commas.</li> <li>Quotation Marks.</li> </ul>	1	2		
6.	Reports, Case Studies and Literature Reviews.	a1, a2, b1, c1, d1, d2.	<ul><li>Writing Reports.</li><li>Case Studies.</li><li>Literature Review.</li></ul>	2	4		
7	Background to Writing.	a1, a2, b1, c1, d1, d2.	<ul> <li>The Purpose of Academic Writing.</li> <li>Common Types of Academic Writing.</li> <li>The Format of Long and Short Writing Tasks.</li> </ul>	1	2		
8.	Paraphrasing.	a1, a2, b1, c1, d1, d2.	<ul><li> The Elements of Effective Paraphrasing.</li><li> Techniques for Paraphrasing.</li></ul>	1	2		
9.	Organizing Paragraphs.	a1, a2, b1, c1, d1, d2.	<ul><li>Paragraph Structure.</li><li>Development of Ideas.</li><li>Linking Paragraphs Together.</li></ul>	1	2		
10.	Argument and	a1, a2, b1,	Discussion Vocabulary.	1	2		

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IV.	IV. Course Content:						
	A – Theoretic	al Aspect:					
Order	Units/Topics List	Learning Outcomes	Sub -Topics List	Number of Weeks	Contact Hours		
	Discussion.	c1, d1, d2.	<ul><li>Organization.</li><li>The Language of Discussion.</li><li>Providing Evidence.</li></ul>				
11.	Final Exam.	a1, a2, b1, c1.	All the Chapters.	1	2		
Numbe	Number of Weeks /and Units Per Semester				32		

# V. Teaching Strategies of the Course:

- Active Lectures. •
- Seminars. •
- Projects. •
- Problem Based Learning. •
- Team Work. •
- Directed Self –Study. •

VI. Assignments:							
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark			
1.	Group Activities.	a1, a2, b1, c1, d1, d2.	1-14	10			
	Total			10			

VII	VII. Schedule of Assessment Tasks for Students During the Semester:								
No.	Assessme	nt Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes			
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Dr. Olofi Algorafi

Ass. Prof. Dr. Huda Al-Emad AL-Bukhaiti Rector of Sana'a University Prof. Dr. Al-Qassim Mohammed Abbas



1.	Group Activities.	Weekly	10	10 %	a1, a2, b1, c1, d1, d2.
2.	Mid-Term Exam.	$8^{\text{th}}$	10	10 %	a1, a2, b1, c1.
3.	Course File.	15 <sup>th</sup>	10	10 %	a1, a2, b1, c1, d1, d2.
4.	Final Exam.	16 <sup>th</sup>	70	70 %	a1, a2, b1, c1.
	Total:		100	100 %	

V	VIII. Learning Resources:						
	• Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).						
1- Requ	1- Required Textbook(s) ( maximum two ).						
	<ol> <li>Alice Oshima and Ann Hogue, (2006), "Writing Academic English", Fourth Edition. Longman Academic Writing Series.</li> </ol>						
	<ol> <li>Eric H. Glendinning, Technology 1 and Technology 2, 2007, Oxford English for Careers New York, Oxford University Press.</li> </ol>						
	<ol> <li>Stephen Bailey, 2011, Academic Writing, A Handbook for International Students, Taylor &amp; Francis or Routledge's Collection, London and New York.</li> </ol>						
2- Es	sential References.						
	<ol> <li>Ibboston, Mark, (2009), "Professional English in Use (Engineering), Cambridge University Press.</li> </ol>						
	<ol> <li>Collins, Harpers, (1990), "Collins Cobuild English Grammar", Williams Collins Sons&amp; Company, Ltd.</li> </ol>						
3- Ele	ectronic Materials and Web Sites etc.						
	<ol> <li>www.techscribe.co.uk.</li> <li>www.prc.dk.</li> <li>En.wikipedia.org.</li> <li>www.udemy.com.</li> </ol>						

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	IX. Course Policies:
	Class Attendance:
1	-A student should attend not less than 75 % of total hours of the subject; otherwise he will
1.	not be able to take the exam and will be considered as exam failure. If the student is absent
	due to illness, he/she should bring a proof statement from university Clinic
	Tardy:
2.	- For late in attending the class, the student will be initially notified. If he repeated lateness in
	attending class he will be considered as absent.
	Exam Attendance/Punctuality:
3.	- A student should attend the exam on time. He is Permitted to attend an exam half one hour
5.	from exam beginning, after that he/she will not be permitted to take the exam and he/she will
	be considered as absent in exam.
	Assignments & Projects:
4.	- The assignment is given to the students after each chapter; the student has to submit all the
	assignments for checking on time.
	Cheating:
5.	- For cheating in exam, a student will be considered as fail. In case the cheating is repeated
	three times during his/her study the student will be disengaged from the Faculty.
	Plagiarism:
	Plagiarism is the attending of a student the exam of a course instead of another student. If
6.	the examination committee proofed a plagiarism of a student, he will be disengaged from the
	Faculty. The final disengagement of the student from the Faculty should be confirmed from
	the Student Council Affair of the university.
	Other policies:
	- Mobile phones are not allowed to use during a class lecture. It must be closed, otherwise
7.	the student will be asked to leave the lecture room
	- Mobile phones are not allowed in class during the examination.
	Lecture notes and assignments my given directly to students using soft or hard copy

#### Reviewed Vice Dean for Academic Affairs and Post Graduate Studies: Asst. Prof. Dr. Tarek A.



Ву	Barakat
	President of Quality Assurance Unit: Assoc. Prof. Dr. Mohammed Algorafi
	Name of Reviewer from the Department: Assoc. Prof. Dr. Riyad Muharam
	Deputy Rector for Academic Affairs Asst. Prof. Dr. Ibrahim AlMutaa
	Assoc. Prof. Dr. Ahmed Mujahed
	Asst. Prof. Dr. Munasar Alsubri

# **Template for Course Plan of Scientific English**

I. Information about Faculty Member Responsible for the Course:								
Name of Faculty Member	Assoc. Prof. Dr. Abdul- Malik Momin			Office	Hour	'S		
Location& Telephone No.	Mechanical Engineering Department- 777943334	SAT	SUN	MON	TUE	WED	THU	
E-mail	dramalikmomin@yahoo.com							

II. C	II. Course Identification and General Information:								
1-	Course Title:	Scientific English.							
2-	Course Number & Code:	BR111.							
	Credit Hours:		Total						
3-		Th.	Seminar/Tu.	Pr	Tr.	Cr. Hrs.			
		2	-	-	-	2			
4-	Study level/year at which this course is offered:	Second Year-First Semester.							
5-	Pre –requisite (if any):	English I and English II.							



6-	Co –requisite (if any):	None.
7-	Program (s) in which the course is offered	<b>Biomedical Engineering Program.</b>
8-	Language of teaching the course:	English Language.
9-	System of Study:	Semesters.
10-	Mode of delivery:	Lectures.
11-	Location of teaching the course:	Faculty of Engineering.

### **III.** Course Description:

This course is designed to develop the communicative performance of Engineers who wish to improve their abilities in English when dealing with their staff, other managers, suppliers, external colleagues and other Engineers internally or internationally as needed, with the correct vocabulary, phrasing, appropriateness, context and style. The role of Technical English language on modern engineering education will be targeted. Most students need to write essays and reports for course work. Yet writing good academic English taking into account the terminologies is one of the most demanding tasks students face. Our English for Engineer courses can focus on widening the student's knowledge of engineering terminology or equally on building their confidence in using the correct language for the situation at hand. Before this context the students should be aware of Academic English taking into account the approach of writing using grammatical and structure of the grammar. After completing this course. students will be able to understand and apply the most common technical vocabulary in the area of Mechanical Engineering.

### **IV.** Intended learning outcomes (ILOs) of the course:

• Brief summary of the knowledge or skill the course is intended to develop:

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- **1.** Classify general principles of academic writing and scientific techniques using basic grammar.
- 2. Express the main ideas related to the topics of writing with effect vocabulary.
- 3. Examine the effect of scientific writing in the management process using best essays.
- **4.** Apply different techniques for writing a report in the area of Mechanical Engineering with special terminologies.
- 5. Assess to time factor for completion of different processes required in this course.
- 6. Cooperate effectively within the team in presenting the technical reports.

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V. Course Content: A – Theoretical Aspect:							
Order	Units/Topics List	Sub -Topics List	Week Due	Contact Hours			
1.	Introduction to the Courses of English I and English II.	• Fast Revision.	1 <sup>st</sup>	2			
2.	The English Tense System.	<ul> <li>Present Tense.</li> <li>Present Continuous Tense.</li> <li>Present Perfect Tense.</li> <li>Present Perfect Continuous Tense.</li> <li>Past Tense.</li> <li>Past Continuous Tense.</li> <li>Past Perfect Tense.</li> <li>Past Perfect Continuous Tense.</li> <li>Future Tense.</li> <li>Future Continuous Tense.</li> <li>Future Perfect Tense.</li> <li>Future Perfect Tense.</li> <li>Future Perfect Continuous Tense.</li> <li>Active and Passive.</li> <li>Using Nouns and Adjectives.</li> <li>Abstract Nouns.</li> <li>Types of Conjunctions.</li> </ul>	2 <sup>nd</sup> &3 <sup>rd</sup>	4			
3.	Specialized Terminologies in Mechanical Engineering.	<ul> <li>Basic Terminologies for Engineering Mechanics.</li> <li>Basic Terminologies for Computer.</li> <li>Basic Terminologies for Thermal System.</li> <li>Basic Terminologies for Production Engineering and Design.</li> <li>Basic Terminologies for Industrial Safety and Training.</li> </ul>	4 <sup>th</sup> - 7 <sup>th</sup>	8			

Republic of Yemen Sana'a University Faculty of Engineering Department of Biomedical Engineering



### **Biomedical Engineering Program Specification**

		<ul> <li>Some Applied Cases:</li> <li>How to Read Piping and Instrumentation Diagrams?</li> <li>Electrical Power Equipment.</li> <li>Introduction to Process Control and Instrumentation.</li> <li>Flow of Fluids through Pipes, Fittings, Valves and Pumps.</li> </ul>	d	
4.	Mid-Term Exam.	• The First Three Chapters.	$8^{\text{th}}$	2
5.	Punctuation.	<ul> <li>Capitals.</li> <li>Apostrophes.</li> <li>Semi-Colons.</li> <li>Commas.</li> <li>Quotation Marks.</li> </ul>	9 <sup>th</sup>	2
6.	Reports, Case Studies and Literature Reviews.	<ul><li>Writing Reports.</li><li>Case Studies.</li><li>Literature Review.</li></ul>	10 <sup>th</sup> &11 <sup>th</sup>	4
7.	Background to Writing.	<ul> <li>The Purpose of Academic Writing.</li> <li>Common Types of Academic Writing.</li> <li>The Format of Long and Short Writing Tasks.</li> </ul>	12 <sup>th</sup>	2
8.	Paraphrasing.	<ul><li>The Elements of Effective Paraphrasing.</li><li>Techniques for Paraphrasing.</li></ul>	13 <sup>th</sup>	2
9.	Organizing Paragraphs.	<ul><li>Paragraph Structure.</li><li>Development of Ideas.</li><li>Linking Paragraphs Together.</li></ul>	14 <sup>th</sup>	2
10.	Argument and Discussion.	<ul> <li>Discussion Vocabulary.</li> <li>Organization.</li> <li>The Language of Discussion.</li> <li>Providing Evidence.</li> </ul>	15 <sup>th</sup>	2

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11.	Final Exam.	All the Chapters.	$16^{\text{th}}$	2
Number of Weeks /and Units Per Semester			16	32

VI.	Teaching Strategies of the Course:
•	Active Lectures.
•	Seminars.
•	Projects.
•	Problem Based Learning.
•	Team Work.
•	Directed Self –Study.

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VII. Assignments:				
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1.	Group Activities.	a1, a2, b1, c1, d1, d2.	1-14	10
	Total			10

VIII. Schedule of Assessment Tasks for Students During the Semester:				
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1.	Group Activities.	Weekly	10	10 %
2.	Mid-Term Exam.	$8^{\text{th}}$	10	10 %
3.	Course File.	15 <sup>th</sup>	10	10 %
4.	Final Exam.	16 <sup>th</sup>	70	70 %
	Total:		100	100%

	Written in the following order: (Author - Year of publication – Title – Edition – Place of publication –
	isher). uired Textbook(s) ( maximum two ).
	<ol> <li>Alice Oshima and Ann Hogue, (2006), "Writing Academic English", Fourth Edition.</li> <li>a. Longman Academic Writing Series.</li> </ol>
	2. Eric H. Glendinning, Technology 1 and Technology 2, 2007, Oxford English for Careers New York, Oxford University Press.
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2- Es	sential References.
	1. Ibboston, Mark, (2009), "Professional English in Use (Engineering), Cambridge University Press.
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3- Electronic Materials and Web Sites etc.		
	1-	www.techscribe.co.uk.
	2-	www.prc.dk.
	3-	En.wikipedia.org.
	4-	www.udemy.com.

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	X. Course Policies:
	Class Attendance:
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	not be able to take the exam and will be considered as exam failure. If the student is absent
	due to illness, he/she should bring a proof statement from university Clinic
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2.	- For late in attending the class, the student will be initially notified. If he repeated lateness
	in attending class he will be considered as absent.
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4.	- The assignment is given to the students after each chapter; the student has to submit all
	the assignments for checking on time.
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5.	- For cheating in exam, a student will be considered as fail. In case the cheating is repeated
	three times during his/her study the student will be disengaged from the Faculty.
	Plagiarism:
	Plagiarism is the attending of a student the exam of a course instead of another student. If
6.	the examination committee proofed a plagiarism of a student, he will be disengaged from
	the Faculty. The final disengagement of the student from the Faculty should be confirmed
	from the Student Council Affair of the university.
	Other policies:
7.	- Mobile phones are not allowed to use during a class lecture. It must be closed,
	otherwise the student will be asked to leave the lecture room
	- Mobile phones are not allowed in class during the examination.
	Lecture notes and assignments my given directly to students using soft or hard copy

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