



### 1. Basic Information

<b>Program Title</b>	All academic programs		
<b>Department offering the Program</b>			
<b>Department Responsible for the Course</b>	Engineering Mathematics and Physics		
<b>Course Code</b>	MUR111		
<b>Year/ Level</b>	Preparatory Year -1 <sup>st</sup> Semester		
<b>Specialization</b>	Minor		
<b>Teaching Hours</b>	Lectures	Tutorial	Practical
	1	2	0

### 2. Course aims:

No.	aim
1	Use language to demonstrate knowledge of contemporary engineering issues.

### 3. Learning Outcomes (LOs):

A5.1	Demonstrate knowledge of contemporary engineering topics.
A5.2	Practice research methods with contemporary issues.
A8.1	Communicate verbally with engineering community using English language
A8.2	Communicate effectively in writing with English language.

### 4. Course Contents:

No.	Topics	Week
1	Technology in use - Materials technology	1, 2
2	Components and assemblies	3, 4
3	Engineering design	5
4	Breaking point (types of technical problems, Assessing faults, repairs and maintenance)	6, 7
5	Technical development (technical requirements, improvements and redesigns)	8, 9
6	Procedures and precautions (health and safety precautions, importance of precautions)	10
8	Monitoring and control (automated systems and measurable parameters)	11
9	Theory and practice (tests and experiments, results and expectations, causes and effects)	12,13
10	Pushing the boundaries (Performance and suitability – capabilities and limitation).	14



### 5. Teaching and Learning Methods:

No.	Teaching Method
1	Interactive lectures ( <u>hybrid learning</u> )
2	Flipped classroom
3	Research assignment

### 6. Teaching and Learning Methods Of Disable Students:

No.	Teaching Method
1	Additional Tutorials
2	Online lectures and assignments

### 7. Student assessment:

#### 7.1 Student Assessment Methods:

No.	Assessment Method	LOs
1	Mid Term Examination (written)	A5.1
2	Semester work (Formative - quizzes – presentation)	A5.1, A5.2, A8.1, A8.2
3	Final Term Examination (written)	A5.1

#### 7.2 Assessment Schedule:

No.	Assessment Method	Weeks
1	Mid Term Examination (written)	7
2	Semester work (Formative - quizzes – presentation)	Every week
3	Final Term Examination (written)	15

#### 7.3 Weighting of Assessments:

No.	Assessment Method	Weights
1	Mid Term Examination (written)	13
2	Semester work (Formative - quizzes – presentation)	13
3	Final Term Examination (written)	67
Total		100%

### 8. List of References



No.	Reference List
1	<i>Mark Ibbotson, Cambridge English for Engineering Student's book free, Cambridge press 2011</i>

**9. Facilities Required for Teaching and Learning:**

No.	Facility
1	Lecture Classroom
2	White Board
3	Data Show System
4	Visualizer
5	Presenter
6	Sound System

**10. Matrix of Knowledge and Skills of the Course:**

No.	Topic	aim	LO's
1	Technology in use - Materials technology	1	A5.1
2	Components and assemblies	1	A5.1
3	Engineering design	1	A5.1, A8.1
4	Breaking point (types of technical problems, Assessing faults, repairs and maintenance)	1	A5.1, A8.1
5	Technical development (technical requirements, improvements and redesigns)	1	A5.1, A8.1
6	Procedures and precautions (health and safety precautions, importance of precautions)	1	A5.1, A5.2, A8.1, A8.2
7	Monitoring and control (automated systems and measurable parameters)	1	A5.1, A5.2, A8.1, A8.2
8	Theory and practice (tests and experiments, results and expectations, causes and effects)	1	A5.1, A5.2, A8.1, A8.2
9	Pushing the boundaries (Performance and suitability – capabilities and limitation).	1	A5.1, A5.2, A8.1, A8.2
10	Technology in use - Materials technology	1	A5.1, A5.2, A8.1, A8.2

**Course Coordinator: Dr. Hana Mosa**

**Head of Department: Prof. Mohamed Mohamed El gamal**



<b>Course: Technical English language</b>	
<b>Program LOs</b>	<b>Course LOs</b>
A5. Practice research techniques and methods of investigation as an inherent part of learning.	A5.1 Demonstrate knowledge of contemporary engineering topics.  A5.2 Practice research methods with contemporary engineering issues.
A8. Communicate effectively—graphically, verbally and in writing—with a range of audiences using contemporary tools.	A8.1 Communicate verbally with engineering community using English language.  A8.2 Communicate effectively in writing with English language.