



1. Basic Information

Program Title	All Programs
Department offering the Program	
Department Responsible for the Course	Engineering Mathematics and Physics
Course Code	MUR113
Year/ Level	Preparatory year - Second Semester
Specialization	University requirement
Authorization data of course specification	

Teaching Hours	Lectures	Tutorial	Practical
	2	0	0

2. Course aims:

No.	Aim
1	Identify the main environmental tools, issues and professional ethics

3. Learning Outcomes (LOs):

No.	Knowledge and Understanding
A3.1	Discuss the relation between human and environmental quality and development.
A3.2	Display the professional ethics of engineers.
A3.3	Explain Environmental impact assessment (EIA) for development projects.
A3.4	Outline the basic concepts of private business culture.
A4.1	Illustrate the technological basis of solid waste handling and disposal Economical aspects of environmental abatement.

b. 4. Course Contents:

No.	Topics	week
1	The struggle between man and environment and the effects of this struggle on human.	1,2
2	Environmental quality and development	3,4,5
3	The technological basis of solid waste handling and disposal	6
4	Economical aspects of environmental abatement	7
5	Environmental protection	8
6	Environmental impact assessment (EIA) for development projects.	9



7	International specifications of engineering profession.	10,11
8	Engineering specializations	12,13
9	Ethics of engineering profession and basic concepts of private business culture.	14

5. Teaching and Learning Methods:

No.	Teaching Method
1	Lectures (hybrid learning)
2	Discussion Sessions
3	Flipped classroom

6. Teaching and Learning Methods for Disable Students:

No.	Teaching Method	Reason
1	×	×

7. Student Assessment:

7.1 Student Assessment Methods:

No.	Assessment Method	LOs
1	Mid Term (written examination)	A3.1, A4.1
2	Semester work, (Portfolio, online Quiz, assignments and reports)	A3.1, A3.2, A3.3, A3.4, A4.1
3	Final Term Examination	A3.1, A3.2, A3.3, A3.4, A4.1

7.2 Assessment Schedule:

No.	Assessment Method	Weeks
1	Mid Term (written examination)	According to exam. Schedule
2	Semester work, (Portfolio, online Quiz, assignments and reports)	weekly
3	Final Term Examination	15

7.3 Weighting of Assessments:

No.	Assessment Method	Weights
1	Mid Term (written examination)	10
2	Semester work, (Portfolio, online Quiz, assignments and reports)	10
1	Final Term Examination	80 %
Total		100%



8. List of References

No.	Reference List
1	مقدمة في علوم البيئة ومشكلاتها الأستاذ الدكتور / شكري ابراهيم حسن(2019)
2	Struggle between man and environment” auther Prof. Dr./ Ibrahim Gar Al-Alm Rashed

9. Facilities Required for Teaching and Learning:

No	Facility
1	Lecture Classroom
2	Projector
3	Sound system

10. Matrix of Knowledge and Skills of the Course:

No.	Topic	Aims	LO's
1	The struggle between man and environment and the effects of this struggle on human	1	A3.1
2	Environmental quality and development	1	A3.1
3	The technological basis of solid waste handling and disposal	1	A4.1
4	Economical aspects of environmental abatement	1	A4.1
5	Environmental protection	1	A3.3
6	Environmental impact assessment (EIA) for development projects.	1	A3.3
7	International specifications of engineering profession.	1	A3.2
8	Engineering specializations	1	A3.2
9	Ethics of engineering profession and basic concepts of private business culture.	1	A3.4

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Head of Department: Prof. Dr. Mohamed Mohamed El Metwally El Gamal



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Course: Humanities1	
Program LOs	Course LOs
A3. Apply engineering design processes to produce cost-effective solutions that meet specified needs with consideration for global, cultural, social, economic, environmental, ethical and other aspects as appropriate to the discipline and within the principles and contexts of sustainable design and development.	A3.1 Discuss the relation between human and environmental quality and development. A3.2 Display the professional ethics of engineers. A3.3 Explain Environmental impact assessment (EIA) for development projects. A3.4 Outline the basic concepts of private business culture.
A4. Utilize contemporary technologies, codes of practice and standards, quality guidelines, health and safety requirements, environmental issues and risk management principles.	A4.1 Illustrate the technological basis of solid waste handling and disposal Economical aspects of environmental abatement.