



Course Specifications

Muharram 1437 H

	Institution:	Majmaah University.	
	Academic Department :	Preparatory Year	
	Programme :	Medicine, Dentistry, Applied Medical Science, Engineering,	
	5	Computer and Science colleges.	
	Course :	Introduction to Mathematics 1.	
	Course Coordinator :	Mr. Mohammad Sudqi Mustafa.	
1	Programme Coordinator :	Mr. Mohammad Sudqi Mustafa.	
	Course Specification Approved Date :3./ 1 / 1438 H		

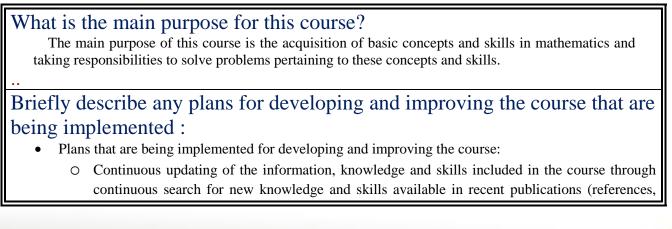
This form compatible with NGAAA 2013 Edition



A. Course Identification and General Information

1 - Course title : Introduction to Mathematics Course Code: PMTH 112				
2. Credit hours :) 2HOURS (
3 - Program(s) in which the course is offered: Medicine, Dentistry, Applied Medical Science, Engineering, Computer and Science colleges				
4 – Course Language : English.				
5 - Name of faculty member responsible for the course: Mr. Mohammad Sudqi Mustafa.				
6 - Level/year at which this course is offered : . 1 st level / 1 st year (Preparatory Year)				
7 - Pre-requisites for this course (if any) :				
None				
8 - Co-requisites for this course (if any) :				
• None				
9 - Location if not on main campus :				
)PY building in Almajmaah male branch, PY in Almajmaah female branch, PY in Almajmaah male branch,				
PY in Alzulfi female branch				
10 - Mode of Instruction (mark all that apply)				
A - Traditional classroom X What percentage? 100 %				
B - Blended (traditional and online) What percentage?%				
D - e-learning What percentage?%				
E - Correspondence What percentage?%				
F - Other What percentage?%				
Comments :				

B Objectives



books, researches, magazines, internet etc.).

- Verifying the information resources.
- Continuous evaluation of the course content, students' levels, and the development of plans accordingly.

C. Course Description

1. Topics to be Covered

List of Topics	No. of Weeks	Contact Hours
Preliminary Concepts	4	8
Equations and Inequalities	3	6
Functions and Graphs.	3	6
Polynomial and Relational Function.	2	4
. Exponential and Logarithmic Functions.	3	6

2. Course components (total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30					30
Credit	30					30

3. Additional private study/learning hours expected for students per week.

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy



4..



حامعة المجمعة

NQF Learning Domains	Course	Course
And Course Learning Outcomes	U	Assessment Methods
Knowledge		
Learning some basic math concepts	Discussing	Continuous
	problems, and	feedback, quizzes,
	using a graph	and oral question
Learning properties of the linear equation	Discussing some	Continuous
	-	feedback, quizzes,
	-	and oral question
Learning some different ways to solve the nonlinear equations	e	Continuous
	-	feedback, quizzes,
		and oral question
Studying Some Concepts in the analytic geometry	ũ	Continuous
	•	feedback, quizzes,
· · · · · · · · · · · · · · · · · · ·		and oral question
Learning the functions Characteristics	ũ	Continuous
	-	feedback, quizzes,
		and oral question
	-	Continuous
logarithmic functions)	-	feedback, quizzes,
	using a graph	and oral question
	Solving problems	Quizzes
algebraic problems		
Constitute the line on energian	Graphing	Quizzes
<u>^</u>	Solving problems	Quizzes
		_
Contrasting Togarithinic with exponential functions	0	Quizzes
Applying the mathematical concepts they learned to solve some		Quizzes
	Solving problems	
	C	Quizzes
Graphing the linear equation	Graphing	
Interpersonal Skills & Responsibility		
Develop certain teamwork responsibility	Assignments and	Observing
	team work	students,
	activities	assignment.
	•••••	
	Knowledge Learning some basic math concepts Learning properties of the linear equation Learning some different ways to solve the nonlinear equations Studying Some Concepts in the analytic geometry Learning the functions Characteristics Learning some types of special functions (exponential and logarithmic functions) Cognitive Skills Applying the mathematical concepts they learned to solve some algebraic problems Graphing the linear equation Solving the mathematical concepts they learned to solve some algebraic problems Graphing the linear equation Solving the mathematical concepts they learned to solve some algebraic problems Graphing the linear equation Solving the nonlinear equations with different methods Contrasting logarithmic with exponential functions Applying the mathematical concepts they learned to solve some algebraic problems Graphing the linear equation Mapping the mathematical concepts they learned to solve some algebraic problems Graphing the linear equation	Number And Course Learning OutcomesTeaching StrategiesKnowledgeLearning some basic math conceptsDiscussing problems, and





	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
4.1	Prepare and present certain topics during the semester, look out issues in the course.	Presentation under supervision	Evaluation of Presentations
4.2	Use the internet for further problems	assignments	Evaluation of assignments
5.0	Psychomotor		
5.1	.N.A.	•••••	
5.2	•••••	•••••	•••••
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٥,٦	•••••		

5. Schedule of Assessment Tasks for Students During the Semester:

	Assessment task	Week Due	Proportion of Total Assessment
1	First exam	7-8	25%
2	Second exam	12-13	25%
3	Quizzes and participation	During the semester	10%
4	Final exam	17-18	40%
5	•••••		
6	•••••	•••••	
7	•••••		
8	•••••		





D. Student Academic Counseling and Support

Four hour per week (Office hours)

E. Learning Resources

1. List Required Textbooks :

- Young Anton, Mathematics 1 & 2 PYP for Almajmaa university, Wiley, 2013
- 2. List Essential References Materials :
 - Howard Anton, *Elementary linear algebra*, Wiley, 2013, 11 th Edition
- 3. List Recommended Textbooks and Reference Material :
 - Rhonda Huettenmueller, *Pre-calculus Demystified*, McGraw Hill, 2012, 2nd edition

4. List Electronic Materials :

- www.khanacademy.org/math
- www.coolmath.com
- www.youtube.com
- www.wikipedia.com

5. Other learning material :

Microsoft office

F. Facilities Required

1. Accommodation

• Classrooms with 20 chairs and 20 laptops

2. Computing resources

• Data show, Smart boards, Microsoft office

3. Other resources

- .N.A
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G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching:

• Continuous feedback, questioner

2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor :

- Statistics of exams
- Feedback by evaluation unit
- External auditing

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3 Processes for Improvement of Teaching :

- Make a revision for students
- Giving extra lectures
- Using online websites

4. Processes for Verifying Standards of Student Achievement

- Exams prepared by the coordinator of the course
- Statistical processes for students results

5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement :

• Continuous revision and coordination with other collages.

Course Specification Approved Department Official Meeting No (.....) Date / *H*

Course's Coordinator

Department Head

Name :	
Signature :	
Date :	/ / H

Name :	
Signature :	
Date :	/ / H

