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Kingdom of Saudi Arabia
National Commission for Academic
Accreditation & Assessment



المملكة العربية السعودية
الهيئة الوطنية للتقويم
والاعتماد الأكاديمي

Attachment 2 (e)
Course Specifications

Kingdom of Saudi Arabia
The National Commission for Academic Accreditation & Assessment

T6. Course Specifications

Preparatory mathematics
PMAT002



Course Specifications

Institution: Hail University

Date:7/12/2016

College/Department: Preparatory Year/ Department of Basic Science (Mathematics)

A. Course Identification and General Information

1. Course title and code: Preparatory mathematics-level 2 (PMAT 002)

2. Credit hours:4

3. Program(s) in which the course is offered:

(If it is a general elective that is available in many programs, indicate this rather than listing the programs.)

Preparatory Year, Basic science department, Mathematics

4. Name of faculty member responsible for the course:

Hassan Nihal ,Mogahed Musa ,Claro ,Noor Alam

5. Level/year at which this course is offered:

First semester of the academic year (2016/2017)

6. Pre-requisites for this course (if any):

Completed PMAT_001(Level-1)

7. Co-requisites for this course (if any): None

8. Location if not on main campus:

Preparatory Year, science college / Bakaa road(Male) , Aja (Femal).

9. Mode of Instruction (tick (✓) the appropriate box):

a. Traditional classroom

What percentage?

90%

b. Blended (traditional and online)

What percentage?

0

c. E-learning

What percentage?

0

d. Correspondence

What percentage?

0

f. Other

What percentage?

10%

Comments:

Some course tutorials were explained during the office hours.



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B. Objectives

1. What is the main purpose for this course?
Developing Student Skills in Solving systems of linear equations and Inequalities by different methods: Linear programming + Matrices know Cartesian coordinate system and recognize basic conic sections.

2. Briefly describe any plans for developing and improving the course that are being implemented.

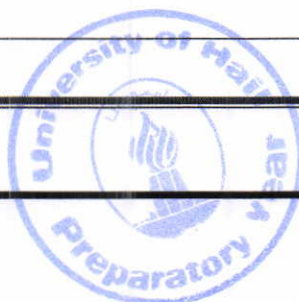
Method of Development	Time
Teachers' development seminars	First week , third week from each semester
Class room visits	Every Thursday according to prepared time table.
Self development	Distribute power point lesson to help S.D.

C. Course Description (Note: General description in the form used in Bulletin or handbook)

Course Description:

1. Topics to be Covered:

List of Topics	No. of Weeks	Contact hours
1.1 Complex Numbers.	1	4
2.1 System of linear equations in two variables.		
2.2 System of non-linear equations in two variables.	1	4
2.3 linear inequalities	1	4
2.4 Matrices and systems of linear equations. Gauss Jordan Method.	1	4
3.1 Matrix algebra. 4.1 Conic basics.	1	4



4.2 The parabola.		
4.3 The ellipse	1	4
4.4 The hyperbola	1	4
Total	7	28

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

	Lecture	Tutorial	Laboratory or Studio	Practical	Other	Total
Contact Hours	28	None	None	None	None	28
Credit	4	None	None	None	None	4

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

4hours

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

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge Upon the completion of the course the student should be able to:		
1.1	Define Conic sections.	<ul style="list-style-type: none"> Lectures. Open discussion 	<ul style="list-style-type: none"> Examination (Final), Quizzes, Written Assignments
1.2	Recall operation on matrices.	<ul style="list-style-type: none"> Lectures. Open discussion 	<ul style="list-style-type: none"> Examination (Med level and Final), Quizzes,