

**Attachment 2 (e)  
Course Specifications**

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

***T6. Course Specifications***

**PMAT-001**



## Course Specifications

Institution: Hail University

Date: 08/12/2016

College/Department: Preparatory Year, Basic Science Department, Mathematics

### A. Course Identification and General Information

1. Course title and code: Preparatory Mathematics-Level 1 PMAT 001

2. Credit hours: 2 hours

3. Program(s) in which the course is offered: Preparatory Year, Basic Science Department, Mathematics.  
(If it is a general elective that is available in many programs, indicate this rather than listing the programs.)

4. Name of faculty member responsible for the course: Amer Latif

5. Level/year at which this course is offered: Second semester of the academic year 2015-2016

6. Pre-requisites for this course (if any): None

7. Co-requisites for this course (if any):

8. Location if not on main campus: Male: Baqa campus, Building-6, Female: Aja Campus.

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

a. Traditional classroom

What percentage?

100%

b. Blended (traditional and online)

What percentage?

c. E-learning

What percentage?

d. Correspondence

What percentage?

f. Other

What percentage?

Comments:

### B. Objectives



1. What is the main purpose for this course?
  - a. To bridge the gap between the student's background and the concepts and skills needed to study Prep-Year Mathematics.
  - b. To enable the student to do the four mathematical operations in real numbers .
  - c. To enable the student to do the four mathematical operations in integers.
  - d. To enable the student to do the four mathematical operations in rational numbers
  - e. To enable the student to do the four mathematical operations in complex numbers.
  - f. Help students acquire a large English vocabulary of important mathematical terms

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

In order to improve this course, it is important to use different means of modern technology during lectures such as smart boards and data show projectors. It is also important to vary the sources of information (the course book, references, websites and the electronic library). This will be in line with the information revolution, which allows students to access the latest scientific research published in scientific journals and enables students to depend on themselves in the desired learning process

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

#### Course Description:

PMAT-001 course was designed to treat the cumulative weakness in the basics mathematical concepts and skills gained through the general education.

It focuses s on the four mathematical operations , aiming to enable the students to do the four mathematical operations in real numbers , integers , rational numbers , algebraic expressions , polynomials , and apply these skills in solving simple linear equations , and linear inequalities and in solving quadratic equations .

The period for teaching this course is one quarter (7 weeks)

| 1. Topics to be Covered   |              |               |
|---|--------------|---------------|
| List of Topics  | No. of Weeks | Contact Hours |
| 1.1 Integers: Addition, subtraction, multiplication and division of integers.<br>1.2 Prime numbers, composite numbers, prime factors of a natural number.<br>1.3 LCM<br>2.1 Rational numbers, addition and subtraction of rational numbers. | 1            | 4             |

