

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

<b>Course name</b>	Mathematical Basics
<b>Course number</b>	STAT2303
<b>Faculty</b>	
<b>Department</b>	
<b>Course type</b>	Major Needs
<b>Course level</b>	2
<b>Credit hours (theoretical)</b>	3
<b>Credit hours (practical)</b>	0
<b>Course Prerequisites</b>	

#### Course Objectives

1 - Learning different kinds and properties of matrices
2 - Learning some conic sections
3 - Learning eigen values and eigen vectors
4 - Learning series and sequences

#### Intended Learning Outcomes

<b>Knowledge and Understanding</b>	* Knowing kinds of matrices
	* Knowing kinds of power series and Taylor series
<b>Intellectual Skills</b>	* Knowing how we use many kinds of sequences
<b>Professional Skills</b>	* Learning about conic sections
<b>General Skill</b>	* Finding the inverse of the matrix
	* Finding the solution of quadratic equations by conic sections

#### Course Contents

1 - Kinds of matrices
2 - Conic sections
3 - Eigen values and eigen vectors
4 - Series and sequences
5 - Power and Taylor series

#### Teaching and Learning Methods

1 - Lectures
2 - Solving different examples and problems
3 - Giving some homework

## Teaching and Learning Methods for the Disabled Students

1 - Is not applied

### Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
First midterm	middle of the semester	30
attendance and discussion	during the semester	5
Homework	during the semester	5
Final	at the end of the semester	60

### Books and References

Course note	Explanation on the board
Essential books	Swokowski.Olinick.Pence. CALCULUS , 6th Edition JOHN E. FREUND Mathematical Statistics , Fifth Edition