Mathematics 2				
Basic Course Information Course Number Class Format	02005010	Subject Category Credit Type and Number of Credits	Compulsory M 2.5	ł
Department Period of Study	Computer Semester 2	Credits Student Category Classes per Week	2.5 Year 1 5	ŧ
	Mathematics Volume 1 - Fundamer Mathematics for Calvia a 7th Erefere		ne 2 - Linear Algabra', "Precalculus	t
Required Materials		tal Mathematics", "Mathematcis Volun , , Edition", and "Precalculus" by OPENS te Mathematics and its Applications 7		
Instructor			Panitam Sammeta	I
Course Objective When successfully complete this cou 1. Describe various types of conic se	urse, students will be able to: actions and identify and recognize the main	features of ellipsoids, paraboloids, an	d hyperboloids.	Ī
 Herform the vector operations by Graph an inequality by hand and Determine the arithmetic or geom Describe the fundamental counting 	urse, students will be able to: sctons and identify and recognize the main aphing addition, scalar multiplication, dot p graph a system of inequalities, efficis sequence given information about it, ng principle and determine the number of p	product, and cross product, possible permuations and/or combinat	ions for a given situation.	
Evaluation(Rubrio)	Ideal Level of Achievement (Very Good	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail)	T
Evaluation 1	Can recognize the main features of quadratic curves and quadric	Can recognize some features of quadratic curves and quadric	Can't recognize any features of quadratic curves and quadric	ł
Evaluation 2	Can perform 2D and 3D vector operations and write the equations	surfaces, Can perform basic 2D and 3D some vector operations and write the	surfaces. Can't perform any 2D and 3D vector operations and can't write the	ł
Evaluation 3	for lines and planes. Can graph systems of linear, nonlinear and/or polar inequalities.	equations for lines or planes. Can graph some of systems of linear nonlinear and/or polar inequalities.	equations for lines and planes, . Can't graph systems of linear, nonlinear and/or polar inequalities.	ł
Evaluation 4	Can identify the different kinds of	Consideratify only come kinds of	Can't identify the different kinds of	ł
Evaluation 5	sequences and describe the similarities and differences between arithmetic and accometric sources. Can describe fundamental counting.	sequences and describe some of similarties and differencies between arithmetic and geometric squences. Can describe some of fundamental	sequences and describe the similarities and differences between arithmetic and geometric squences. Can't describe fundamental counting	
	Can describe fundamental counting principles and solve counting problems using permutation and combination.	Can describe some of fundamental counting principles and solve some counting problems using permutation and combination.	Can't describe fundamental counting principles or solve counting problems using permutation and combination.	ł
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3(1) Wide knowledge on Science	Relationship with L and Engineering and practical ability to	earning Outcomes o apply them to solve problems in t	he scolety.	Ŧ
G(4) Creativity to make a new ve Pieses change	lue with fueing the knowledge from va	ricus fields.		t t
Teaching Method				1 T
Outline: Class Format:	14	icture. Drill. Group Work, and Presenta	tion	ŧ
Please Note :	Class format is subject to	change depending on students' prior l	knowledge and preparation	I
Course Plan Semester 2	Contents and N	ethod of Course	Goals	Related MCC
1 st. Week	Chapter 1 : Sequence and its Partial	Sums	Can identify the nth term and compute it partial sums of given sequences. Can describe the similarities and differences of arithmetic and geometric sequences	
			smiartities and differences of arithmetic and geometric sequences	
2nd Week	Chapter 1 : Addition and Multiplicatic	n Principles	Can describe the fundamental addition and multiplication principles	1 1 3
2 N THER	CONTRACT CONTRACT AND MULTIPICATIO		addition and multiplication principles	
3rd Week	Chapter 1 : Permutations and Combi		Can solve counting problems using permutation and combination	1 1 3
3rd week	Chabler 1. Permutations and Como	naiona	permutation and combination.	
4th Week	1st Quarter Examination (15%)		1st Week - 3rd Week	
			Understand the 2-dimensional rectangular coordinate system and recognize features of circles	I 1 3
5th Week	Chapter 2 : 2D Coordinate Systems a	Chapter 2 : 2D Coordinate Systems and Orcles		
6th Week	Chapter 2 : Conic Sections		Can identify the main features of an ellipse, a hyperbola, a parabola and their translations	I 1 3
7th Week	Chaster 2 : 3D Coordinate Systems and Scheres		Understand the 3-dimensional rectangular coordinate system and recognize features of elizacids, paraboloids, and hyperboloids	
Sth Week	Chapter 2 : Quadric Surfaces		Can identify the main features of an ellipse, a hyperbola, a parabola and their translations	
Sth Week	Midterm Examination (20%)		5th Week - 8th Week	
10th Week	Chapter 3 : Sets and Set Operations		Can identify sets and understand set operations	
11th Week	Chapter 3 : Polar Coordinate System		Can convert points between rectangular and polar coordinates and sketch polar curves from given equations	
12th Week	Chapter 3 : Regions of Inequalities	Chapter 3 : Regions of Inscualities		1 1 3
13th Week	3rd Quarter Examination (15%)	3rd Quarter Examination (15%)		
14th Week	Chapter 4 : Vectors in Two and Thre	Chapter 4 : Vectors in Two and Three Dimensions		
15th Week	Chapter 4 : Dot Product and its Prot	Chapter 4 : Dot Product and its Proterties		
16th Week	Chapter 4 : Cross Product and its Pr	Chapter 4 : Cross Product and its Properties		
17th Week	Chepter 4 : Equations of Lines and Planes		Can find vector and parametric equations of a line and find vector and scalar equations of a plane	
18th Week	Review Session	Review Session		
	Final Examination (20%)		14th Week - 18th Week	
19th Week	Final Examination (25%)			
19th Week 20th Week	Final Examination (25%) Return asniver-sheetsneview semisit	er and give feedbacks	Summary	Do