



Integrated M.Sc. Mathematics (Semester - 1)
Assessment Policy [Theory]
060090107: GE1 Principles of Scientific Computing

Assessment Code	Assessment Type	Duration of each	Occurrence	Each of marks	Weightage in CIE of 40 marks	Remarks
A1	Unit Test	90 Minutes	2	30	$7 \times 2 = 14$	Unit Test - 1: Unit 1 and Units 2 Unit Test - 2: Unit 3 and Unit 4.1, 4.2
A2	Internal Exam	180 Minutes	1	60	$14 \times 1 = 14$	Cover Unit : All Units
A3	Assignment	15 Days	4	7	$1.75 \times 4 = 7$	Cover Unit : All Units
A4	Viva	20 Minutes	1	5	$5 \times 1 = 5$	Cover Unit : All Units

Assessment Type Classification:

Assessment Code :	A1	Coverage of Content :	Unit Test - 1: Unit 1 and Units 2 Unit Test - 2: Unit 3 and Unit 4.1, 4.2
Assessment Type :	Unit Test	Tentative Date :	17/09/2019 and 12/10/2019
Kind of Question Format:	<p>Que. 1) Do as directed: [A] Objective questions [two questions, each of 1 marks] [1 x 2] [B] Short questions [Any one out of two questions , each of 3 marks] [1 x 3] [C] Long questions [Any two out of three questions , each of 5 marks] [2 x 5]</p> <p>Que. 2) Do as directed: [A] Objective questions [two questions, each of 1 marks] [1 x 2] [B] Short questions [Any one out of two questions , each of 3 marks] [1 x 3] [C] Long questions [Any two out of three questions , each of 5 marks] [2 x 5]</p>		
Assessment :	Formative		

Assessment Code :	A2	Coverage of Content :	All Units
Assessment Type :	Internal Exam	Tentative Date :	09/12/2019
Kind of Question Format:	Same as University Format		
Assessment :	Formative		



Assessment Code :	A3	Coverage of Content :	All Units
Assessment Type :	Assignment	Tentative Date :	04/09/2019, 04/10/2019, 12/11/2019 and 20/11/2019
Rules:	1. 20 questions from each unit will be given as assignment. 2. 15 days will be given for assignment submission. 3. Zero marks will be given for submission after given deadline		
Assessment :	Summative		

Assessment Code :	A4	Coverage of Content :	All Units
Assessment Type :	Viva	Tentative Date :	09/12/2019
Rules:	1. Viva should be taken after submission of assignments. 2. Zero marks will be given, if students remain absent on the time of viva without taking prior permission of leave.		
Assessment :	Summative		



Assessment Policy [Theory]
060090107: GE1 Principles of Scientific Computing

Assessment Code	Assessment Type	Duration of each	Occurrence	Each of marks	Weightage of 50 marks	Remarks
P1	Internal Practical Examination - 1	90 minutes	1	30	15x1 = 15	List of Practical : 1 to 5
P2	Internal Practical Examination - 2	90 minutes	1	30	15x1 = 15	List of Practical : 6 to 10
P3	Internal Practical Examination - 3	100 minutes	1	40	20x1 = 20	List of Practical : 11 to 15

Assessment Code :	P1	Coverage of Content :	List of Practical : 1 to 5
Assessment Type :	Internal Practical Examination - 1	Tentative Date :	20/09/2019
Kind of question Format:	<ul style="list-style-type: none">• Practical Programme (Four out of Five, each of 5 Marks) [20 Marks]• Journal Submission (5 Marks)• Viva (5 Marks)		
Assessment :	Formative		

Assessment Code :	P2	Coverage of Content :	List of Practical : 6 to 10
Assessment Type :	Internal Practical Examination - 2	Tentative Date :	14/09/2019
Kind of question Format:	<ul style="list-style-type: none">• Practical Programme (Four out of Five, each of 5 Marks) [20 Marks]• Journal Submission (5 Marks)• Viva (5 Marks)		
Assessment :	Formative		



Assessment Code :	P3	Coverage of Content :	List of Practical : 11 to 15
Assessment Type :	Internal Practical Examination – 3	Tentative Date :	11/12/2019
Kind of question Format:	<ul style="list-style-type: none">• Practical Programme (Six out of Eight, each of 5 Marks) [30 Marks]• Journal Submission (5 Marks)• Viva (5 Marks)		
Assessment :	Formative		

Course Outcomes:

Upon completion of the course, students shall be able to

C01: understand the basic concepts of mathematical computer programming.

C02: become familiar with syntax related to concepts of matrix theory.

C03: design and develop programs using different logical statements viz. if, for, while, do until etc.

C04: plot 2D and 3D graphs of data using mathematical computer programming.

C05: increase capacity with the major programming paradigms, and the principles and techniques involved in design and implementation of mathematical programming languages.

Programme Outcomes (PO)

PO 1: Knowledge

Provides knowledge about the fundamentals of pure, applied and computing mathematics and its applications to students that creates the opportunities in industries and research centers.

PO 2: Core Competence

Creates competency in science and mathematics to formulate, analyses and solve problem and/or also to pursue advanced study or research.

PO 3: Breadth

Trains students having good knowledge in unearth core of academia and industry by the roots of mathematics.

PO 4: Evaluation

Imparts in students to raise trial and error based curiosity and problem solving functionality with research based advanced tutorial for higher level decision makings tools.



Assessment Code	Course Outcomes					Programme Outcomes			
	C01	C02	C03	C04	C05	P01	P02	P03	P04
A1	✓	✓				✓	✓		✓
A2			✓	✓	✓	✓	✓		✓
A3	✓	✓	✓	✓	✓	✓	✓	✓	✓
A4	✓	✓	✓	✓	✓	✓	✓	✓	✓