Five years Integrated M.Sc. Mathematics (Semester - 5)
Assessment Policy
060090501 - CC11 Complex Analysis

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 x 2 = 14	Unit Test 1: After completion of Unit 1.5 Unit Test 2: After completion of Unit 3
A2	Internal Exam	180 Minutes	1	60	14 x 1 = 14	Covers Unit- All Units
A3	Assignment	After each unit	4	1.75	4 x 1.75 = 7	Covers Unit- All Units
A4	Viva	1 Day	1	5	5 x 1 = 5	Covers Unit- All Units

Assessment Type Classification:

Assessment Code :	A1	**Coverage of Content :**	From Unit 1 & Unit 2
Assessment Type :	Unit Test 1	**Tentative Date :**	9-8-2019 to 14-8-2019
Kind of Question Format:	Q-1Long answer question. (3 out of 4 questions of 5 marks) [15 Marks] Q-2 Long answer question. (3 out of 4 questions of 5 marks) [15 Marks]		
Assessment :	Formative		

Assessment Code :	A1	**Coverage of Content :**	From Unit 2 & Unit 3
Assessment Type :	Unit Test 2	**Tentative Date :**	16-9-2019 to 19-9-2019
Kind of Question Format:	Q-1Long answer question. (3 out of 4 questions of 5 marks) [15 Marks] Q-2 Long answer question. (3 out of 4 questions of 5 marks) [15 Marks]		
Assessment :	Formative		

Assessment Code :	A3	**Coverage of Content :**	All unit
Assessment Type :	Assignment	**Tentative Date :**	19/10/2019 to 22/10/2019
Kind of Question Format:	1. 10 questions (5 short questions and 5 long questions) from all unit will be given as assignment. 2. Questions will be given in the very next lecture once the unit gets over. 3. 10 days will be given for assignment submission. 4. Zero marks will be given for submission after given deadline.		
Assessment :	Formative		

Assessment Code :	A4	**Coverage of Content :**	All unit
Assessment Type :	Viva	**Tentative Date :**	19/10/2019 to 22/10/2019
Kind of Question Format:	1. Basic and short type of 8-10 question asked to each student from any unit with equal weightage. 2. Marks will be given on the basis concept and knowledge. .		
Assessment :	Formative		

Assessment Code :	A2	**Coverage of Content :**	All unit
Assessment Type :	Internal examination	**Tentative Date :**	11-10-2019 to 18-10-2019
Kind of Question Format:	Same as university format.		
Assessment :	Formative		

Course Outcomes: Upon completion of the course, students shall be able to

CO1: Perform basic mathematical operations (arithmetic, powers, roots) with complex numbers in Cartesian and polar forms

CO2: Determine continuity/differentiability/analyticity of a function and find the derivative of a function.

CO3: Work with functions (polynomials, reciprocals, exponential, trigonometric, hyperbolic, etc) of single complex variable and describe mappings in the complex plane.

CO4: Evaluate a contour integral using parametrization, fundamental theorem of calculus and cauchy's integral formula.

CO5: Find the taylor series of a function and determine its circle or annulus of convergence.

CO6: Compute the residue of a function and use the residue theory to evaluate a contour integral or an integral over the real line.

Programme Outcomes (PO)

PO1: 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.

PO2: Core Competence

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

PO3: Breadth

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

PO4: 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.

Programme Outcomes and Course Outcomes Mapping:

Assessment Code	Course Outcomes						Programme Outcomes			
	CO1	CO2	CO3	CO4	CO5	CO6	PO1	PO2	PO3	PO4
A1	✓	✓								✓
A2		✓			✓		✓	✓		
A3			✓			✓				✓
A4		✓		✓				✓	✓	