

Five years Integrated M.Sc. Mathematics (Semester - 9) Assessment Policy

060090902: Calculus of Variations and Integral Equations

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	7×2=14	Unit Test – 1: After completion of Unit-1 and Sub Units 2.1, 2.2, and 2.3. Unit Test – 2: After completion of Sub Units 2.4, 2.5 and Unit – 3.	
A2	Internal Exam	3 hours	1	60	14 ´1 = 14	Covers Unit- All units	
A3	Assignment	7 days	4	10	$1.75 \times 4 = 07$	Assignment -1 : After completion of Unit-1 Assignment -2 : After completion of Unit-2 Assignment -3 : After completion of Unit-3 Assignment -4 : After completion of Unit-4	
A4	Viva	20 minutes	1	05	$5 \times 1 = 05$	Covers Unit- All units	

Assessment Type Classification:

Assessment Code :	A1	Coverage of Content :	Unit Test – 1: After completion of Unit-1 and
			Sub Units 2.1, 2.2, and 2.3.
Assessment Type :	Unit Test 1	Tentative Date :	10/08/2019
Kind of Question	Q-1 Answer the following. (Any 3 out of 4 q	uestions, each of 5 mark) [15 Marks]
Format:	Q-2 Answer the following. (Any 3 out of 4 q	uestions, each of 5 mark) [15 Marks]
Assessment :	Formative		

Assessment Code :	A1	Coverage of Content :	Unit Test – 2: After completion of Sub Units 2.4, 2.5 and Unit – 3.
Assessment Type :	Unit Test 2	Tentative Date :	17/09/2019



Kind of Question	Q-1 Answer the following. (Any 3 out of 4 questions, each of 5 mark)	[15 Marks]
Format:	Q-2 Answer the following. (Any 3 out of 4 questions, each of 5 mark)	[15 Marks]
Assessment :	Formative	

Assessment Code :	A2	Coverage of Content :	Covers Unit- All units
Assessment Type :	Internal Exam	Tentative Date :	14/10/2019
Kind of Question	Q-1 Answer the following. (Any 3 out of 4 q	uestions, each of 5 mark) [15 M	rks]
Format:	Q-2 Answer the following. (Any 3 out of 4 q	uestions, each of 5 mark) [15 M	rks]
	Q-3 Answer the following. (Any 3 out of 4 q	uestions, each of 5 mark) [15 M	rks]
	Q-4 Answer the following. (Any 3 out of 4 q	uestions, each of 5 mark) [15 M	rks]
Assessment :	Formative		

Assessment Code :	A3	Coverage of Content :	Covers Unit- All units		
Assessment Type :	Assignment	Tentative Date :	Assignment 1: 25/07/2019		
			Assignment 2: 12/08/2019		
			Assignment 3: 30/08/2019		
			Assignment 4: 23/09/2019		
Kind of Question	1.8 questions (short questions and long questions) from all units will be given as assignment.				
Format:	2. Questions will be given in the very next lecture once the unit gets over.				
	3. 07 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 :		After completion of Syllabus			
Assessment Type :	Viva	Tentative Date :				
Kind of Question	1. Viva should be taken after completion of Syllabus.					
Format:	2. Zero marks will be given, if students remain absent on the day of viva without taking prior permission of					
	leave or students not give the viva of given topic.					
Assessment :	Formative					



2019-20

Assessment Type Mapping with Course Outcomes and Program Outcomes:

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

CO1: familier with concept of variations.

CO2: derive some classical differential equations by using principles of calculus of variations.

CO3: have acquired sound knowledge of Green's function, fredholm and Volterra integral equations of calculus of variations.

CO4: solve simple IVP and BVP by using calculus of several variable.

C05: reduce the differential equation to integral equations.

CO6: exposed to the decomposition method.

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.

Assessment Code		Cour	se Outc	omes	Programme Outcomes				
	CO1	CO1 CO2 CO3 CO4 CO5					P02	P03	P04
A1	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
A2	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
A3	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark		\checkmark
A4	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark