



Five years Integrated M.Sc. Mathematics (Semester - 6)

Assessment Policy

060090605: DSE4 Ring and Field Theory

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: After completion of Unit-1 and Sub Units 2.1, 2.2 Unit Test – 2: After completion of Sub Units 2.3, 2.4 and Unit – 3.
A2	Internal Examination	180 minutes	1	60	$14 \times 1 = 14$	After completion of Unit-4, which covers all units.
A3	Assignment	10 days	4	10	$1.25 \times 4 = 5$	Cover Units: All Units
A4	Presentation	30 minutes	1	20	$7 \times 1 = 7$	Based on Application of Ring and Field Theory

Assessment Type Classification:

Assessment Code :	A1	Coverage of Content :	Unit Test – 1: Covers Unit-1 and Sub Units 2.1, 2.2, 2.3 and 2.4 Unit Test – 2: Covers Sub Units 2.5, 2.6, 2.7, 2.8, 2.9 and Unit – 3.
Assessment Type :	Unit Test-1 and Unit Test -2	Tentative Date :	Unit Test – 1: 21/01/2019 Unit Test – 2: 08/03/2019
Kind of Question Format:	Q1(A) Answer the following. [1 X 2 = 2] Q1(B) Answer the following. (Any 1) [1 X 3 = 3] Q1(C) Answer the following. (Any 2) [2 X 5 = 10] Q2(A) Answer the following. [1 X 2 = 2] Q2(B) Answer the following. (Any 1) [1 X 3 = 3]		



	Q2(C) Answer the following. (Any 2) [2 X 5 = 10]
Assessment :	Formative

Assessment Code :	A2	Coverage of Content :	All Units
Assessment Type :	Internal Examination	Tentative Date :	16/04/2019
Kind of Question Format:	Same as University format		
Assessment :	Summative		

Assessment Code :	A3	Coverage of Content :	Cover Units: All Units
Assessment Type :	Assignment	Tentative Date :	-
Kind of Question Format:	1. At least 20 questions from each unit will be given as assignment. 2. Questions will be given in every tutorial lecture. 3. 7 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 Units
Assessment Type :	Presentation	Tentative Date :	25/03/2019
Kind of Question Format:	1. Student must select any application of real world based on ring and field theory and has to present it. 2. The presentation will be evaluated based on four parameters viz. (i) Level of Content (ii) Clarity (iii) Teaching Methodology (iv) Overall Impact of presentation. 3. Each parameter has weighted of 5 marks.		
Assessment :	Summative		



Course outcomes:

Upon completion of the course, students shall be able to

C01: summarize the fundamental concepts and results in ring theory, including the concepts of an ideal, quotient ring, integral domain, and field

C02: Use the concepts of isomorphism and homomorphism for rings and analyze & demonstrate examples of ideals and quotient rings

C03: Organize the ring of integers, the ring of polynomials and the Euclidean Algorithm.

C04: classify the fundamental concepts and results in field theory, including the concepts of quotient field of integral domain, extension field, prime field and finite field.

C05: Understand the elementary concepts of rings and fields and appreciate the similarities and differences between these concepts and those of group theory

C06: Explain the fundamental concepts of advanced algebra such as rings & field and their role in modern mathematics and applied contexts

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	C06	P01	P02	P03	P04
A1	✓	✓	✓		✓	✓	✓	✓		✓
A2	✓	✓	✓	✓	✓	✓	✓	✓	✓	
A3	✓	✓	✓	✓	✓	✓		✓		✓
A4						✓		✓	✓	