



Integrated M.Sc. Mathematics (Semester - 9)
Assessment Policy
060090905: Soft Computing (Theory - 2 Credits)

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 Unit-2 Unit Test - 2: After completion of 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	$1.75 \times 4 = 7$	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	5 hours	1	5	$5 \times 1 = 5$	Based on the conceptual knowledge of Soft Computing.

Assessment Type Classification:

Assessment Code :	A1	Coverage of Content :	Unit Test - 1: Covers Unit-1 & 2 Unit Test - 2: Covers Unit - 3.
Assessment Type :	Unit Test-1 and Unit Test -2	Tentative Date :	Unit Test - 1 : 09/08/2019 Unit Test - 2 : 16/09/2019
Kind of Question Format:	As per University Examination Format		
Assessment :	Formative		

Assessment Code :	A2	Coverage of Content :	All Units
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Assessment Type :	Internal Examination	Tentative Date :	11/10/2019
Kind of Question Format:	As per University Examination Format		
Assessment :	Summative		

Assessment Code :	A3	Coverage of Content :	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
Assessment Type :	Assignment	Tentative Date :	Assignment - 1 : 12/07/2019 Assignment - 2 : 05/08/2019 Assignment - 3 : 04/09/2019 Assignment - 4 : 05/10/2019
Kind of Question Format:	1. Per method two examples have to solve. 2. Questions will be given on regular bases of completion of particular method. 3. Assignment has to be submitted after two days of completion of whole unit. 4. Zero mark will be given for submission after given deadline.		
Assessment :	Formative		

Assessment Code :	A4	Coverage of Content :	All Units
Assessment Type :	Viva	Tentative Date :	07/10/2019
Kind of Question Format:	1. 10-12 basic and short type of question asked to each student from any unit with equal weightage. 2. Marks will be given on the basis of knowledge share.		
Assessment :	Summative		



Integrated M.Sc. Mathematics (Semester - 9)
Assessment Policy
060090905: Soft Computing (Practical – 2 Credits)

Assessment Code	Assessment Type	Duration of each	Occurrence	Each of marks	Weightage in CIE of 40 marks	Remarks
A1	Practical Examination	120 minutes	2	20	10 x 2 = 20	Practical – 1: After completion of Unit-1 and Unit-2 Practical – 2: After completion of Unit-3 and Unit-4

Assessment Code :	A1	Coverage of Content :	Practical – 1: After completion of Unit-1 and Unit-2 Practical – 2: After completion of Unit-3 and Unit-4
Assessment Type :	Practical Examination	Tentative Date :	Practical – 1: 09/08/2019 Practical – 2: 16/09/2019
Kind of Question Format:	1. Practical Programme (1 out of 2, each of 10 Marks) 2. Journal Submission (5 Marks) 3. Viva Voce (5 Marks)		
Assessment :	Formative		



Assessment Type Mapping with Course Outcomes and Program Outcomes:

Course outcomes:

Upon completion of the course, students shall be able to

CO1: learn soft computing techniques and their applications

CO2: design and analyse various neural network architectures

CO3: analyse the genetic algorithms and their applications.

CO4: apply fuzzy logic concept along with genetic algorithms to handle different cases.

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