Five Years Integrated M.Sc. Mathematics (Semester - 7)

Assessment Policy
060090705: Fuzzy Logic

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 and Sub Units 2.1, 2.2, and 2.3 Unit Test – 2: After completion of Sub Units 2.4, 2.5, 2.6, 2.7 and Unit – 3.
A2	Internal Examination	180 minutes	1	60	14 x 1 = 14	After completion of Unit-4, which covers all units.
A3	Assignment	7 days	4	10	1.75 x 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	Presentation	30 minutes	1	50	5 x 1 = 5	Based on the applications of Fuzzy Logic

Assessment Type Classification:

Assessment Code :	A1	Coverage of Content :	Unit Test – 1: Covers Unit-1 and Sub Units 2.1, 2.2, and 2.3 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: 18/9/2019 Unit Test – 2: 13/10/2019

Kind of Question Format:	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]

	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]
Assessment :	Formative

Assessment Code :	A2	**Coverage of Content :**	All Units
Assessment Type :	Internal Examination	**Tentative Date :**	20/12/2019
Kind of Question Format:	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] 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] Que. 3) 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] Que. 4) 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]		
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 :13/9/2019 Assignment - 2 : 18/10/2019 Assignment - 3 : 18/11/2019 Assignment - 4 : 6/12/2019
Kind of Question Format:	1. Per method two/three examples have to solve. 2. Questions will be given on regular bases of completion of particular method. 3. Assignment has to be submitted after seven 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 :	Presentation	**Tentative Date :**	07/12/2019
Kind of Question Format:	1. Student has to select any one of topic from the syllabus and has to present its application in real world situation. 2. The presentation will be evaluated on the basis of four parameters viz. (i) Level of Content (ii) Clarity (iii) Teaching Methodology(iv) Overall Impact of presentation (v) Viva. 3. Each parameter has weighted 10 marks.		
Assessment :	Summative		

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

CO1:   clarifying the fundamental concepts, properties and operations of classical sets and
        fuzzy sets.

CO2:   classify the differences and similarities between fuzzy sets and classical sets theories.

CO3:   become familiar with fuzzy relations and the properties of these relations.

CO4:   identity and understand the different fuzzy membership functions.

CO5:   illustrate a distinction between classical logic and fuzzy logic at the conceptual level.

CO6:   fuzzify the usual form of problems having vagueness or uncertainty and solve them
        by using fuzzy logic and fuzzy system.

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 opportunitiesin 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			
	CO1	CO2	CO3	CO4	CO5	CO6	PO1	PO2	PO3	PO4
A1	√	√					√	√		√
A2			√	√	√	√	√	√		√
A3	√	√	√	√	√	√	√	√	√	√
A4	√	√	√	√	√	√	√	√	√	√