



Five years Integrated M.Sc. Mathematics (Semester - 5)

Assessment Policy

060090502:CC12 Integral Transform

| 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 : Unit 1 and Unit 2.1 - 2.3 Unit Test 2 : Unit 2.4, 2.5 and Unit 3 |
| A2 | Internal Exam | 180 Minutes | 1 | 60 | $14 \times 1 = 14$ | Cover Unit : All Units |
| A3 | Assignment | 15 Days | 4 | 7 | $1.75 \times 4 = 7$ | Cover Unit : All Units |
| A4 | Viva | 20 Minutes | 1 | 5 | $5 \times 1 = 5$ | Cover Unit : All Units |

Assessment Type Classification:

| | | | |
|---------------------------------|--|------------------------------|---|
| Assessment Code : | A1 | Coverage of Content : | Unit Test 1 : Unit 1 and Unit 2.1 - 2.3 Unit Test 2 : Unit 2.4, 2.5 and Unit 3 |
| Assessment Type : | Unit Test | Tentative Date : | 09/08/2019 and 16/09/2019 |
| Kind of Question Format: | Que: 1 (A) or (A) [8 Marks] (B) or (B) [7 Marks] Que: 2 (A) or (A) [8 Marks] (B) or (B) [7 Marks] | | |
| Assessment : | Formative | | |

| | | | |
|---------------------------------|---------------------------|------------------------------|------------|
| Assessment Code : | A2 | Coverage of Content : | All Units |
| Assessment Type : | Internal Exam | Tentative Date : | 14/10/2019 |
| Kind of Question Format: | Same as University Format | | |
| Assessment : | Formative | | |



| | | | |
|--------------------------|---|------------------------------|---|
| Assessment Code : | A3 | Coverage of Content : | All Units |
| Assessment Type : | Assignment | Tentative Date : | 15/07/2019,09/08/2019,23/08/2019 and 16/09/2019 |
| Rules: | 1. 20 questions from each unit will be given as assignment. 2. 15 days will be given for assignment submission. 3. Zero marks will be given for submission after given deadline | | |
| Assessment : | Summative | | |

| | | | |
|--------------------------|--|------------------------------|------------|
| Assessment Code : | A4 | Coverage of Content : | All Units |
| Assessment Type : | Viva | Tentative Date : | 26/09/2019 |
| Rules: | 1. Viva should be taken after submission of assignments. 2. Zero marks will be given, if students remain absent on the time of viva without taking prior permission of leave. | | |
| Assessment : | Summative | | |

Course Outcomes:

Upon completion of the course student shall be able to

C01: utilize Laplace Transform to a basic integrodifferential equation.

C02: solve linear differential equations with constant coefficients and unit step input functions using the Laplace transform.

C03: analyse applications of hyper geometric differential equations using Mellin transform.

C04: identify specific application in signal analysis and Image Techniques using Mellin transform.

C05: solve applications based on Cartesian Coordinates in one variable using Hankel Transform.

C06: make a use of Hankel transforms to solve application of special functions.

C07: understand how integral transforms can be used to solve a variety of differential equations.



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 | | | |
|--------------------|-----------------|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|
| | CO1 | CO2 | CO3 | CO4 | CO5 | CO6 | CO7 | PO1 | PO2 | PO3 | PO4 |
| A1 | ✓ | | | | ✓ | ✓ | ✓ | ✓ | | ✓ | |
| A2 | | ✓ | | ✓ | | ✓ | | | ✓ | | ✓ |
| A3 | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ |
| A4 | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | ✓ |