



## **MANNAR THIRUMALAI NAICKER COLLEGE (Autonomous)**

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

(Accredited with “A” Grade by NAAC)

Pasumalai, Madurai -625004

### **I & II SEMESTER - COURSE OUTCOMES**

#### **ARTS / HUMANITIES**

#### **M.Phil., MATHEMATICS**

##### **18LMTC11 RESEARCH METHODOLOGY**

##### **Course Outcomes:**

- CO1 :** To pay due attention to designing and adhering to the appropriate methodologies for improving the quality of research.
- CO2:** To introduce a brief treatment of simple properties of algebra.
- CO3:** To familiarize the applications.
- CO4:** To Ethical issues in conducting research on skill based.

##### **18LMTC12 ADVANCED ANALYSIS**

##### **Course Outcomes:**

- CO1:** To develop the skills connected with the different concepts of measures.
- CO2:** To teach the characteristics of measurable sets on various spaces.
- CO3:** To learn about functions and the basic properties of Fourier Transforms.
- CO4:** To equip the students with the advanced research topics and predictive analysis for employability.

##### **18LMTE11**

##### **LABELING, COLOURING AND DOMINATION IN GRAPHS**

##### **Course Outcomes:**

- CO1:** To inculcate research attitude on instructing the Advancement in Domination.
- CO2:** To introduce advance topics in Directed graphs and factorization of graphs.
- CO3:** To learn more about Coloring, Labeling and the theory of Domination numbers.
- CO4:** To get prior idea on preparing research articles for employability.

18LMTE12

### **L<sup>p</sup> SPACES AND FOURIER TRANSFORMS**

**Course Outcomes:**

**CO1:** To teach the characteristics of convex sets on  $L^p$  spaces.

**CO2:** To learn about functions and the properties of Fourier Transforms.

**CO3:** To learn how the fourier transforms are applied in various fields.

**CO4:** To apply how the fourier series is extended to aperiodic signals in the form of fourier transform for employability.

18LMTE13

### **STOCHASTIC PROCESS**

**Course Outcomes:**

**CO1:** To inculcate research attitude in Stochastic differential equations

**CO2:** To develop the concepts of Markov Chains and Markov process.

**CO3:** To introduce the Renewal process.

**CO4:** To expose the students to the random processes for their subsequent study of analog and digital communication.

18LMTE14

### **FUZZY ALGEBRA**

**Course Outcomes:**

**CO1:** To Study Fuzzy numbers, Fuzzy relations, Fuzzy homomorphisms on single and double sets.

**CO2:** To develop the concepts of Fuzzy relations and Fuzzy normal subgroups.

**CO3:** To develop its applications.

**CO4:** To design fuzzy logic based controllers and explore their unique characteristics.