

MANNAR THIRUMALAI NAICKER COLLEGE(Autonomous)

(An Autonomous Institution Affiliated to Madurai Kamaraj University)
(Accredited with "A" Grade by NAAC)
Pasumalai, Madurai -625004

Programme : UG Part III : Core
Semester : III Hours per week : 05
Sub code : 18UMCC31 Credit : 05

INTEGRAL CALCULUS

Course Outcomes

CO1: To give an idea about the properties of definite integrals.

CO2: To apply integral calculus to evaluate double and triple integrals.

CO3: To understand the basic concepts interchanging Cartesian to polar co-ordinates.

CO4: To understand the various properties of Beta and Gamma functions.

Programme : UG Part III : Core
Semester : III Hours per week : 05
Sub code : 18UMCC32 Credit : 05

SEQUENCES AND SERIES

Course Outcomes

CO1: To learn about sequences through examples.

CO2: To introduce infinite series and alternative series.

CO3: To familiarize the application of series in Trigonometry.

CO4: To understand how the elementary functions can be defined by power series, with an ability to deduce some of their easier properties.

Programme : UG Part III : Allied
Semester : III Hours per week : 04
Subject Code : 18UMCA31 Credit : 03

PROGRAMMING IN C++

Course Outcomes

CO1: To gain the knowledge of Object Oriented Programming concepts.

CO2: To make the students acquainted with the structure of C++ programs.

CO3: To develop the program writing skills.

CO4: To understand advanced features of C++ specifically Operator overloading and Inheritance.

Programme : UG Part III : Allied
Semester : III Hours per week : 02
Subject Code : 18UMCAP2 Credit : 01

PROGRAMMING IN C++ - LAB

Course Outcomes

CO1: To gain the knowledge of Object Oriented Programming concepts.

CO2: To make the students acquainted with the structure of C++ programs.

CO3: To develop the program writing skills.

CO4: To understand advanced features of C++ specifically Operator overloading and Inheritance.

Programme : UG Part IV : NME
Semester : III Hours per week : 02
Subject code : 18UMCN31 Credit : 02

ARITHMETIC AND MENTAL ABILITY - I

Course Outcomes

CO1: To introduce basic concepts of Mathematics.

CO2: To develop the computational skills.

CO3: To improve required skills to face competitive examinations.

CO4: To create skills in solving real life word problems.

Programme: UGPart III: CoreSemester: IVHours per week: 05Sub code: 18UMCC41Credit: 05

ANALYTICAL GEOMETRY 3D AND VECTOR CALCULUS

Course Outcomes:

CO1: To understand the concepts of equation of a plane, Straight line, Sphere,

CO2: To learn the basic concepts in vector differentiation.

CO3: To acquire the knowledge of Analytical geometry of three dimensions & vector calculus.

CO4: To introduce the application of double and triple Integration.

Programme : UG Part III : Core Semester : IV Hours per week : 05 Sub code : 18UMCC42 Credit : 05

STATISTICS - I

Course Outcomes

CO1: To develop skills in basic statistical concepts. **CO2:** To introduce Correlation and Regression.

CO3: To learn about various techniques on curve fitting.

CO4: To imply all kinds of attributes in statistics.

Programme : UG Part III : Allied
Semester : IV Hours per week : 06
Subject Code : 18UMCA41 Credit : 04

PYTHON PROGRAMMING

Course Outcomes:

CO1: To design a program to solve the problem

CO2: To apply a solution clearly and accurately in a program using Python.

CO3: To apply the best features of mathematics, engineering and natural

sciences to program real life problems.

CO4: To develop skills in designing graphical user interfaces in Python.

Programme: UGPart IV: NMESemester: IVHours per week: 02Subject code: 18UMCN41Credit: 02

ARITHMETIC AND MENTAL ABILITY - II

Course Outcomes

CO1: To develop problem solving techniques.

CO2: To improve required skills to face competitive examinations.

CO3: To introduce concepts of Pie charts.

CO4: To create skills in solving real life word problems.

OPERATIONS RESEARCH

Course Outcomes:

CO1: To develop skills in Mathematical formulation and Solving of LPP. **CO2:** To solve specialized LPP like transportation and assignment problems.

CO3: To introduce about Network problems.

CO4: To develop skills in solving real life Network problems.

OPERATIONS RESEARCH

Course Outcomes:

CO1: To develop skills in Mathematical formulation and Solving of LPP. **CO2:** To solve specialized LPP like transportation and assignment problems.

CO3: To introduce about Network problems.

CO4: To develop skills in solving real life Network problems.

Programme : B.Sc. (Computer Science) Part III : Allied Semester : IV Hours per week : 04 Sub Code : 18UCSA41 Credit : 04

NUMERICAL APTITUDE

Course Outcomes

CO1: To introduce basic concepts of Mathematics.

CO2: To develop the computational skills.

CO3: To improve required skills to face competitive examinations.

CO4: To create skills in solving real life word problems.

Programme : B.Sc(E & C) Part III : Allied
Semester : IV Hours per week : 06
Subject code : 18UELA41 Credit : 04

NUMERICAL METHODS

Course Outcomes

CO1: To make the students understand basic concepts of Numerical Methods.

CO2: To develop the skills in solving Simultaneous equations and Interpolations.

CO3: To develop the skills in solving differentiation and integration problems numerically.

CO4: To improve the ability to solve difference equations and differential equations numerically.

Programme : B.Sc (Chemistry) Part III :Allied Semester : V Hours per week : 06

Subject Code: 17UCHA51 Credit: 04

ALLIED MATHEMATICS – III

Course Outcomes:

CO1: To develop the skills in Mathematical formulation and Solving of LPP.

CO2: To learn about different techniques on solving LPP

CO3: To solve specialized LPPlike transportation and assignment problems.

CO4: To introduce about Network problems.

Programme: B.Sc., Chemistry
Semester: VI
Subject Code: 17UCHA61
Part III
Hours per week: 06
Credit: 04

ALLIED MATHEMATICS – IV

Course outcomes:

CO1: To develop skills in Bilinear transformations.

CO2: To introduce different techniques of finding Analytic functions.

CO3: To familiarize concepts of Matrices.

CO4: To teach various types of Groups through examples.

ALLIED MATHEMATICS – I

Course Outcomes:

CO1: To familiarize basic concepts of theory of equations.

CO2: To develop skills in solving equations.

CO3: To teach trigonometry and Expressing Trigonometric functions.

CO4: To develop skills in expanding Trigonometric functions.

Programme: B.Sc., Chemistry

Semester: IV

Subject Code: 18UMCA42

Part III: Allied
Hours per week: 04
Credit: 04

ALLIED MATHEMATICS – II

Course Outcomes:

CO1: To familiarize Vector differentiation.

CO2: To introduce basic statistical concepts of interpolation.

CO3: To familiarize the concepts on attributes and index numbers.

CO4: To develop skills in finding various Index numbers.