MANNAR THIRUMALAI NAICKER COLLEGE(Autonomous)

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

DEPARTMENT OF MATHEMATICS

Programme	**: UG**	**Part III**	**: Core**
Semester	**: III**	**Hours per week**	**: 05**
Sub code	**: 18UMTC32**	**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 of how the elementary functions can be defined by power series, with an ability to deduce some of their easier properties.

Programme	**: UG**	**Part IV**	**: NME**
Semester	**: III**	**Hours per week**	**: 02**
Sub code	**: 18UMTN31**	**Credit**	**: 02**

MATHEMATICS FOR COMPETITIVE EXAMINATION – I

Course Outcomes:
CO1: To introduce concepts of Mathematics along with analytical ability.
CO2: To practice the mathematical formulas and methods
CO3: To develop the computational skills needed.
CO4: To improve the ability to face the competitive examinations.

Programme	**: UG**	**Part III**	**: Core**
Semester	**: IV**	**Hours per week**	**: 05**
Sub code	**: 18UMTC41**	**Credit**	**: 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	**: 18UMTC42**	**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 IV**	**: NME**
Semester	**: IV**	**Hours**	**: 02**
Sub code	**: 18UMTN41**	**Credit**	**: 02**

MATHEMATICS FOR COMPETITIVE EXAMINATION - II
Course Outcomes:
CO1: To introduce concepts of Mathematics along with analytical ability.
CO2: To develop the computational skills needed.
CO3: To improve the ability to face the competitive examinations.
CO4: To familiarize the concepts of permutation and combination.

Programme	**: Physics**	**Part III**	**: Allied**
Semester	**: III**	**Hours per week**	**: 04**
Subject Code	**: 18UMTA31**	**Credit**	**: 04**

ALLIED MATHEMATICS – III
Course Outcomes:
CO1: To develop the skills in formulation of LPP.
CO2: To learn about different techniques on solving LPP.
CO3: To understand Transportation and Assignment problems.
CO4: To provide the capability of solving the Commercial mathematical problems for employability.

Programme	**: Physics**	**Part III**	**: Allied**
Semester	**: IV**	**Hours per week**	**: 04**
Sub code	**: 18UMTA41**	**Credit**	**: 04**

ALLIED MATHEMATICS – IV

Course Outcomes
CO1: To develop logical skills in solving the differential equations.

CO2: To introduce the concepts of an analytic function.
CO3: To familiarize bilinear transformations.
CO4: To familiarize the applications on skill development.