A.V.V.M. SRI PUSHPAM COLLEGE (AUTONOMOUS),

POONDI-613 503, THANJAVUR

1.1.1   Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific outcomes (PSOs) and Course Outcomes (COs) of the Programmes offered by the Institution

COURSE OUTCOMES

B.Sc. MATHEMATICS (2017 - 2018)

Semester	Category	Paper Code	Title of the Paper	Outcome
I	Part – I	17U1MAT1/H1	Tamil – I / Hindi – I	• To know and get the awareness of resent tamil literature
	English	17U1MAE1	English – I	• To initiate the Students to understand English through Prose, Poetry and Basic Communicative Grammar.
	Core	17U1MAC1	Differential Calculus and Trigonometry	• Use of the unifying themes of derivatives , integrals, limits, approximations and applications
	Core	17U1MAC2	Analytical Geometry 3-D and Integral Calculus	• Analytical Geometry 3-D – The plane – The straight line – Coplanar lines - skew lines S.D.
	Allied	17U1MAPHA1	Allied Physics – I	• To understand the basic properties of materials. • To acquire the knowledge about acoustics.
	ES	17U1MAES	Environmental Studies	• To get better awareness of Environmental Condition
II	Part – I	17U2MAT2/H2	Tamil – II / Hindi – II	• To know and get the knowledge of Literature of the middle ages.
	English	17U2MAE2	English – II	• To impart language and communicative skills through short stories, one act plays and communicative grammar
	Core	17U2MAC3	Classical Algebra	• To use in the solution of some of the stiff problem in arithmetic.
	Core	17U2MAC4	Sequence and Series	• To determine the general term of an arithmetic and geometric sequences.
	Allied	17U2MAPHA2	Allied Physics – II	• To introduce the concepts of Dynamics, Friction. • To introduce the knowledge about Relativity.

	Allied	17U2MAPHAPL	Allied Physics Practical (N.S)	• Students acquire skills in doing experiments related to properties of matter and sound.
	Skill Based Education	17U2MAS1	Skill Based Education- I (Non-Verbal Reasoning)	• Solve real life problems requiring interpretations and comparision of various representations of ratios.
	VBE	17U2MAVE	Value based Education	• To enhance the understanding of Human physical and mental health and the ability to maintain it well to the life and beyond.
III	Part – I	17U3MAT3/H3	Tamil – III / Hindi – III	• To understand the differences and importance of Epics ,Essays, History of Tamil literature
	English	17U3MAE3	English – III	• To introduce the language of the world renowned dramatist and novelist to enhance the vocabulary and communicative skills of the learners.
	Core	17U3MAC5	Differential Equations and Laplace transform	• To find solution of Initial Value Problem for linear ODE.
	Core	17U3MAC6	Statics	• To know the basic concepts and application of Statics.
	Allied	17U3MAMSA1	Allied Mathematical Statistics - I	• To make the student to gain wide knowledge in probability since probability plays a main role in solving real life problems • To apply these techniques to real life problem
	GS	17U3MAGS	Gender Studies	• To know the differences Understanding Gender to treat other genders with goodness
	Part – I	17U4MAT4/H4	Tamil-IV / Hindi-IV	• To know and get the knowledge of Classical, Sangam, Moral Literatures of Tamil language.
	English	17U4MAE4	English – IV	• To prepare the learners for competitive examinations and to know the fundamentals of practical communication.
	Core	17U4MAC7	Vector Calculus, Fourier Series and Fourier Transforms	• Compute the line integrals of vector functions and learn their applications.

IV	**Core**	17U4MAC8	**Dynamics**		• To know the basic concepts and application of Dynamics.
	Allied	17U4MAMSA2	**Allied Mathematical Statistics – II**		• To study about some distributions which are useful in testing of different hypothesis. • To study types of sampling and Estimators.
	Allied (NS)	17U4MAMSAPL	**Allied Mathematical Statistics - Practical (N.S)**		• To study about some distributions which are useful in testing of different hypothesis. • To study types of sampling and Estimators.
	Skill Based Education	17U4MAS2	**Skill Based Education–II (Arithmetic Ability)**		• Distinguish between proportional and non proportional situations and when appropriate, apply proportional reasoning.
V	**Core**	17U5MAC9	**Abstract Algebra**		• To give an introductory knowledge of the basic abstract system of Mathematics. • To develop analytical thinking.
	Core	17U5MAC10	**Real Analysis**		• To study basic topological concepts and about limits and continuity. • To study the theoretical concepts of differentiability and integration.
	Core	17U5MAC11	**Number Theory**		• To introduce the theoretical concepts of Number theory. • To enlighten the students with the famous theory on number theory.
	Core	17U5MAC12	**Discrete Mathematics**		• To introduce logical Concepts to students. • To study the concepts of lattice and Boolean algebra, generating functions.
	Major Elective	17U5MAEL1A 17U5MAEL1B	**Numerical Methods (or) Special Functions**		• To introduce popular numerical methods to students. • To introduce Numerical differentiation, integration and solution of Ordinary differential equations.
	Major Elective	17U5MAEL2A 17U5MAEL2B	**Graph Theory (or) Mathematical Modeling**		• To give a rigorous introduction to the basic concepts of graphs Theory. • To give applications of graph Theory in other disciplines.

	NME	17U5MANME	Non-Major Elective: Mathematical Finance	• To enable other department student to know some basic ideas on algebra and numerical interpolation. • To give some commercial oriented mathematical ideas.
	SSD	17U5MASSD	Soft Skill Development	• Developing organizational behavior and employment skills to the employment organizations
VI	Core	17U6MAC13	Complex Analysis	• To study the nature of complex number system. • To learn the properties of function defined on the complex systems. • To study the related famous theorems on complex theory.
	Core	17U6MAC14	Operations Research	• This course introduces the concepts, models and problem solving techniques of optimization problems. To enable the students gain knowledge about various optimization techniques like linear programming, duality in linear programming and integer programming.
	Core	17U6MAC15	Programming in C	• To introduce the techniques of C- Programming • To solve the numerical problems using C
	Core – PL	17U6MACPL	Programming in C Practical	• To know about the C- Programming Language.
	Major Elective	17U6MAEL3A 17U6MAEL3B	Fuzzy sets and its applications (or) Formal Languages and Automata Theory	• To know the basic concept of Fuzzy set and their application.
	Major Elective	17U6MAEL4A 17U6MAEL4B	Astronomy (or) Stochastic processes	• To introduce the exciting world of astronomy to students. • To help the students to know about the celestial objects. • To gain knowledge about astronomical concepts through mandatory
	CN	17U6MACN	Comprehensive test	• To better for the preparations of Competitive Exams in advance.

	GK	17U6MAGK	General Knowledge	• To make awareness of GK in Competitive World.