

**ST. JOSEPH'S COLLEGE (AUTONOMOUS),
DEVAGIRI, CALICUT**



CURRICULUM AND SYLLABI

FOR

**B.Sc. ECONOMICS & MATHEMATICS
(DOUBLE MAIN)**

Programme Outcome

(2019 Admn Onwards)

Programme Outcome

PSOs	PROGRAMME OUTCOMES
PSO1	Capability of demonstrating comprehensive knowledge of mathematics and understanding of one or more disciplines which form a part of an undergraduate programme of study
PSO2	Ability to communicate various concepts of mathematics effectively using examples and their geometrical visualizations.
PSO3	Ability to use mathematics as a precise language of communication in other branches of human knowledge.
PSO4	Ability to show the importance of mathematics as precursor to various scientific developments since the beginning of the civilization
PSO5	Ability to employ critical thinking in understanding the concepts in every area of mathematics
PSO6	Ability to analyse the results and apply them in various problems appearing in different branches of mathematics
PSO7	Capability to solve problems using concepts of linear algebra.
PSO8	Capability to solve various models such as growth and decay models, radioactive decay model, LCR circuits and population models using techniques of differential equations.
PSO9	Ability to solve linear system of equations, linear programming problems and network flow problems.
PSO10	Ability to provide new solutions using the domain knowledge of mathematics acquired during this programme
PSO11	Capability for inquiring about appropriate questions relating to the concepts in various fields of mathematics.
PSO12	To know about the advances in various branches of mathematics
PSO13	Capability to use appropriate software to solve system of equations and differential equations
PSO14	Ability to work independently and do in-depth study of various notions of mathematics
PSO15	Ability to think, acquire knowledge and skills through logical reasoning and to inculcate the habit of self-learning
PSO16	Ability to apply the acquired knowledge in all aspects
PSO17	Experimental skills
PSO18	Ability to identify unethical behaviour such as fabrication, falsification or misrepresentation of data and adopting objective, unbiased and truthful actions in all aspects
PSO19	The design of the programme is intended to understand a comprehensive view of the subject matter of economics.
PSO20	The diversity of courses included in the programme makes the student understand the diverse nature of economic theories.
PSO21	The Introduction of more quantitative course will help the student to acquire the fundamentals of economic model building.
PSO22	A blending of the financial and public economics with core courses makes the student

	to face the real life situations of banking, share markets, budgetary practices etc.
PSO23	To imbibe the student a new vision in economic studies by creating research content in every course.
PSO24	The proposed project report in the syllabus will inculcate the students a practice of real research.
PSO25	Students shall attain a strong foundation of mathematics so that they will be able to solve complicated problems in Economics
PSO26	The programme will produce good Economists with a sound mathematical background