UNIVERSITY OF KERALA

Re-accredited by NAAC with A++ GRADE

College Basket

May 18, 2024, 5:28 a.m.

College	:	**V T M N S S College (145)**
Year of admission	:	Batch 2024
Discipline	:	FYUGP Mathematics

Category	Course Code	Course Name	Entered by	Entered on	Description
Semester: 1					
DSC	UK1DSCMAT100	Foundations of Mathematics	Deepa D	Thu, 09 May 2024 14:48:46 GMT	Sets, Relations, Functions, Determinants and Matrics, Solutions of system of Equations (4 Modules; 60 Hrs)
DSC	UK1DSCMAT101	Differential Calculus and Linear Algebra	Deepa D	Thu, 09 May 2024 14:48:46 GMT	Differentail Calulus and its applications (4 modules, 60 Hrs)
MDC	UK1MDCMAT100	Numerical Ability - I	Deepa D	Thu, 09 May 2024 14:49:14 GMT	This course is primarily meant for students who have not undergone a Mathematics course beyond their secondary school. The course is expected to improve the student's basic mathematical skills and to understand the mathematics used in their respective fields better. (4 Modules, 45 Hrs)
Semester: 2					
DSC	UK2DSCMAT100	Theory of equations, Differential Calculus and	Deepa D	Thu, 09 May 2024 14:50:03	This course includes theory of equations, differential calculus,

		Geometry		GMT	polar co-ordinates and conic sections (4 Modules, 60 Hrs)
DSC	UK2DSCMAT102	Integration and Applications of differentiation	Deepa D	Thu, 09 May 2024 14:50:03 GMT	This course enables the student to understand the applications of differentiation and evaluate the integrals (4 Modules, 60 Hrs)
MDC	UK2MDCMAT100	Numerical Ability- II	Deepa D	Thu, 09 May 2024 14:50:20 GMT	This course is primarily meant for students who have not undergone a Mathematics course beyond their secondary school. The course is expected to equip the student tackle basic arithmetic problems. The student is further expected to form linear and quadratic equations from simple real world problems on their own and solve the same. (4 Modules; 45 Hrs.)
Semester: 3					
DSC	UK3DSCMAT200	Integral Calculus and Foundations of Vector Calculus	Deepa D	Thu, 09 May 2024 14:51:02 GMT	The course deal with identifying the applications of integration and vector valued functions (4 Modules; 60 Hrs)
DSC	UK3DSCMAT204	Applications of Integration and Vector Calculus	Deepa D	Thu, 09 May 2024 14:51:02 GMT	This course enable the students to get an idea about the applications of integration and vector calculus. (4 Modules, 60 Hrs)
DSE	UK3DSEMAT200	Programming with LATEX and Python	Deepa D	Thu, 09 May 2024 14:47:32 GMT	This course provides basic skill in LATEX and python programming (4 Modules; 60 Hrs)
VAC	UK3VACMAT201	Project Management and Game Theory	DR. ANANDAKUMAR V M	Sun, 12 May 2024 16:11:59 GMT	After completing the course student get the clear ides of the following , minimizing some measure of performance of a

					system such as the total completion time for the project, overall cost and so on, types of game theory, Mathematic required for solving game theory, Technique of solving for different types of games. (4 Modules; 45 Hrs)
Semester: 4					
DSC	UK4DSCMAT200	Introduction to Real Analysis and Multiple Integrals	Deepa D	Thu, 09 May 2024 14:51:43 GMT	This course includes introductary Real Analysis and Multiple Integrals (4 Modules, 60 Hrs)
DSC	UK4DSCMAT201	Partial Differentiation and Introduction to Abstract Algebra	Deepa D	Thu, 09 May 2024 14:51:43 GMT	This course includes Partial differentiation and basic Abstract Algebra (4 Modules, 60 Hrs)
DSE	UK4DSEMAT202	Data Analysis using Python	Deepa D	Thu, 09 May 2024 14:52:04 GMT	This course in Data Visualization and Statistical Analysis using Python equips students with the skills to visualize data through various plots and graphs, obtain statistical measures, conduct hypothesis tests, and perform correlation and regression analysis, all within the Python programming environment. (4 Modules, 60 Hrs)
INT	UK4INTMAT200	Summer Internship	Deepa D	Wed, 15 May 2024 08:25:27 GMT	
SEC	UK4SECMAT201	Numerical Methods	DR. ANANDAKUMAR V M	Sun, 12 May 2024 16:12:43 GMT	The course enable the students to solve numerical problems using different methods. (3 Modules; 45 Hrs.)
Semester: 5					

DSC	UK5DSCMAT300	Differential Equations and Vector Calculus	Deepa D	Thu, 09 May 2024 14:52:44 GMT	This course will introduce the fundamental concepts of ODE, different techniques for solving these ODE's and gives fundamental concepts of Vector Calculus including Vector Field, Line Integrals, Surface Integrals and Volume Integrals. Also it explains the physical interpretation of Green's Theorem, Stoke's Theorem and Divergence Theorem. (4 Modules; 60 Hrs)
DSC	UK5DSCMAT301	Real Analysis - I	Deepa D	Thu, 09 May 2024 14:52:44 GMT	This course provides basics of real analysis (4 Modules; 60 Hrs)
DSC	UK5DSCMAT302	Abstract Algebra	Deepa D	Thu, 09 May 2024 14:52:44 GMT	The course delves into the fundamental concepts of homomorphism and factor groups . It covers the definition of Rings, fields and Integral Domains along with the field of quotients of an integral domain, rings of polynomials and factorization of polynomials over a field, factor rings and prime and maximal ideals (4 Modules; 60 Hrs)
DSE	UK5DSEMAT300	Intermediate Graph Theory	Deepa D	Thu, 09 May 2024 14:53:14 GMT	This course is developed to prepare the students studying graph theory to develop a clear understanding of Graph Theoretic concepts (4 Modules; 60 Hrs)
DSE	UK5DSEMAT304	Difference Equations and Z-Transforms	Deepa D	Thu, 09 May 2024 14:53:14 GMT	This paper explores the relationship between difference equations and Z transforms, two fundamental concepts in discrete-time signal processing

					and system analysis. Difference equations are recurrence relations that describe the behavior of discrete-time systems, recurrence relations that describe the behavior of discrete-time systems, while Z transforms provide a powerful tool for analyzing such systems in the frequency domain (4 Modules; 60 Hrs)
SEC	UK5SECMAT300	Programming with Python	DR. ANANDAKUMAR V M	Sun, 12 May 2024 16:13:20 GMT	This course offers basics of python programming (4 Modules; 45 Hrs)
Semester: 6					
DSC	UK6DSCMAT300	Real Analysis - II	Deepa D	Thu, 09 May 2024 14:54:00 GMT	This course includes Reimann Integral, Fundamental Theorems, Metric spaces and the concepts Interior, closure and boundary of sets (4 mODULES; 60 hRS)
DSC	UK6DSCMAT301	Complex Analysis I	Deepa D	Thu, 09 May 2024 14:54:00 GMT	This course deals with the study of analytic functions and helps the students to evaluate complex integrals (4 Modules; 60 Hrs)
DSC	UK6DSCMAT302	Linear Algebra	Deepa D	Thu, 09 May 2024 14:54:00 GMT	The primary purpose of this course is to explore the concepts of vector spaces, linear transformation on vector spaces and the relationship between linear transformation and matrices (4 Modules; 60 Hrs)
DSE	UK6DSEMAT300	Advanced Linear Programming	Deepa D	Thu, 09 May 2024 14:54:23 GMT	At the end of the course student get the clear picture of following: assign a dual

					variable for each primal constraint, construct a dual constraint for each primal variable, finding the solution of the primal from the dual,locate a basic feasible solution of a transportation problem by various methods and a minimum transportation schedule by MODI method, determine the optimal solutions of assignment problems using the Hungarian method; , types of game theory, Mathematic required for solving game
DSE	UK6DSEMAT303	Foundations of Computational Mathematics with SageMath	Deepa D	Thu, 09 May 2024 14:54:23 GMT	This course provides a comprehensive introduction to computational mathematics using SageMath, covering topics ranging from basic arithmetic operations to advanced calculus, matrix algebra, and programming techniques. Students will learn to leverage the power of computational tools for mathematical exploration, problem-solving, and visualization, equipping them with essential skills for mathematical analysis in various fields. (4 Modules; 60 Hrs)
SEC	UK6SECMAT300	Programming with R	DR. ANANDAKUMAR V M	Sun, 12 May 2024 16:14:10 GMT	This course provides an introduction to programming in R, focusing on data manipulation, analysis, and visualization. Students will learn how to write R scripts,

					understand basic data structures like vectors, lists, and data frames, and perform data analysis, graphical data representation and solve some statistical problems. (4 Modules; 45 Hrs.)
Semester: 7					
DSC	UK7DSCMAT400	Topology	Deepa D	Thu, 09 May 2024 14:54:59 GMT	This course provides important concepts in metric spaces and point set topology. We begin the course by continuous functions on metric spaces. Then we introduce the concept of topological spaces and its properties. Also the topological properties such as connectedness, compactness and related concepts are also discussed. (4 Modules; 60 Hrs.)
DSC	UK7DSCMAT401	Complex Analysis - II	Deepa D	Thu, 09 May 2024 14:55:00 GMT	The course deals with the study of power series, conformal mapping and helps the student to evaluate certain real and improper integrals (4 Modules; 60 Hrs.)
DSE	UK7DSEMAT409	Machine Learning using Python	Deepa D	Mon, 13 May 2024 08:54:16 GMT	An introduction to supervised and unsupervised machine learning algorithms using python. (4 Modules; 60 hrs)
Semester: 8					
CIP	UK8CIPMAT400	Capstone project	Deepa D	Wed, 15 May 2024 13:16:14 GMT	