

K.S. Rangasamy College of Arts and Science (Autonomous)

NAAC Re-accredited and an ISO 9001: 2008 Certified Institution (Affiliated to Periyar University, Salem. Included under 2(f) & 12(B) of UGC Act, 1956)

Tiruchengode – 637 215

Course with Skill Development, Employability, and Entrepreneurship

Skill Development

Differential Equations and Laplace Transforms Analytical Geometry of 2D and 3D Mathematical Statistics I **Operations Research**

Employability Skill

Quantitative Aptitude Statistical Software (SPSS) Statistics for Competitive Exams Mathematics for Competitive Exams-I Mathematics for Competitive Exams-II

Entrepreneurship Skill

Programming in C Sci Lab Data Analysis Using R-Software. Numerical Computations Using MatLab.

Department of Mathematics

e.S.Rangasany College of Arts and Science (Autonomeus) Figusheingude-637 245 Namakkal (Dt.)

Mr. M. PRASAD, M.S., M.B.A. h... K.S. Rangesemy College of Ada & Science (Auterwinera) Truchengode - 637 215. Tanaithadu. Indu.

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TRUCHENGUDE-63

COURSE CODE	COURSE NAME	EMPLOYABILITY\ ENTREPRENEURSHIP\ SKILL DEVELOPMENT	CONTENT
18UMAM202	Differential Equations and Laplace Transforms	Skill Development	Unit-II: Linear Equation with constant coefficients. Unit-IV: Laplace Transforms and Inverse Laplace Transforms. Unit-V: Partial fractions - Applications of Laplace Transform - To solve system of differential equations.
18UMAM301	Analytical Geometry of 2D and 3D	Skill Development	Unit-I: Conic Sections - The equations of the pair of tangents to the parabola - Properties of a parabola. Unit-II: Equation of an Ellipse - The equations of tangent to the Ellipse - Properties of an Ellipse. Unit-III: Equation of the Hyperbola - Rectangular Hyperbola - Parametric representation of xy=c². Unit-IV: Analytical Geometry of 3Dimensions - Plane and Straight Line. Unit-V: Equations of a sphere - Intersection of two spheres - cone.
18UMAA301	Mathematical Statistics- I	Skill Development	Unit-I: Random Variables – Probability mass function and Probability density function – Joint Probability function and conditional distribution. Unit-II: Mathematical Expectation – Properties – MGF and properties – Characteristics function. Unit-III: Theoretical Discrete distributions – Binomial, Poisson and Geometric distribution. Unit-V: Correlation and Regression – Properties.
18UMAM503	Operations Research	Skill Development	Unit-I: Formation of LPP – Graphical solution – Simplex method – Big M Method. Unit-III: Transportation
2	K.S. RANGASAMY COLLEGE OF	ARTS AND SCIENCE (AUTONOMOUS), HRUC	

	B.Sc., Mathemati	cs(Studentsadmittedfrom20	18-2019Offwards)
			problem - Vogels Approximation Method - MODI method. Unit-IV: Assignment Problem - Hungarian method - Travelling Salesman Problem. Unit-V: Network and Scheduling by PERT\CPM - Critical Path Method.
18UMASB301	Quantitative Aptitude	Employability Skill	Unit-I: Simplification and Average Unit-II: Square roots, Cube roots, surds and Indices. Unit-III: Ratio and Proportion, Chain rule. Unit-IV: Profit and Loss, Partnership. Unit-V: Age and Percentage problems.
18UMAAP401	Statistical Software (SPSS)	Employability Skill	Consisting 20 statistical topics for better utilization of SPSS package.
18UMASB401	Statistical for Competitive Exams	Employability Skill	Unit-I: Uses, Scope and limitation of statistics, Diagrammatic and Graphical representation. Unit-II: Sampling and non Sampling errors. Unit-III: Time series – Trends and Seasonal Variation. Unit-IV: Index numbers – Reversal test. Unit-V: Vital statistics - Life table construction and uses.
18UMASB501	Mathematics for Competitive Exams -I	Employability Skill	Unit-I: Application of Matrices and Determinants. Unit-II: Theory of Equation, Permutation and Combination. Unit-III: Sets, Rotations and Functions. Unit-IV: Trigonometric Equations and Inequalities Unit-V: Limits, Continuity and Differentiability.
18UMASB601	Mathematics for Competitive Exams-II	Employability Skill	Unit-I: Algebra of Complex numbers. Unit-II: Quadratic Equation and its roots.

K.S. RANGASAMY COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS), TIRUCHENGODE CONTRUCTIONS

Mr. M. PRASAD, MSc., MBA, ...

B.Sc., Mathematics (Students admitted from 2018-2019 Onwards)

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			Unit-III: Binomial theorem -			
	vi .		Series and their properties.			
			Unit-IV: Differential Equations			
			and their types.			
			Unit-V: Vector Algebra.			
18UMAM504	Programming in C	Entrepreneurship Skills	Eleven topics of Numerical			
			Methods were solved using C-			
		-	Programming.			
18UMAMP601	Sci Lab	Entrepreneurship Skills	It provides knowledge about a			
	-		scientific software approach to			
			solve Engineering and scientific			
			applications.			
18UMAAC301	Data Analysis	Entrepreneurship Skills	It provides knowledge in data			
	using R-Software		using R-Programming such as			
			R-Data types, operators,			
			Functions Chart and etc.			
18UMAAC401	Numerical	Entrepreneurship Skills	Using Mat Lab, Skill is			
	Computations	_	developed on predefined Mat			
	using Mat Lab		Lab functions, Matrix			
			Computations, Symbolic			
		,	Mathematics and Numeral			
			Techniques.			

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