

Sri Kaliswari College (Autonomous), Sivakasi

Department of Mathematics

Course Outcomes

B.Sc. Mathematics

S.No	Course Code	Course Name	Course Outcomes
SEMESTER- I			
1.	23UMAC11	Core Course -I : Algebra & Trigonometry	<p>CO1[K1]: state the characterization of reciprocal equations, sum of binomial,exponential, logarithmic, trigonometric series, eigen values, eigen vectors of a matrix and expansion of trigonometric functions</p> <p>CO2[K2]: demonstrate the method of solving reciprocal equations, expansion oftrigonometric functions, characteristic property of hyperbolic functions, Cayley-Hamilton theorem, summation of series</p> <p>CO3[K3]: find eigen values, eigen vectors of a matrix, solution of reciprocal equations , sum of binomial, exponential, logarithmic,trigonometric functions</p> <p>CO4[K4]: explain the classification of reciprocal equations, relationship between circular and hyperbolic functions, the method of diagonalization of square matrices and the sum of binomial, exponential, logarithmic, trigonometric series</p> <p>CO5[K5]: determine the solution of reciprocal equations, sum of binomial,exponential, logarithmic, trigonometric series, powers and inverse of a square matrix and the expansion of trigonometric functions</p>
2.	23UMAC12	Core Course -II : Differential Calculus	<p>CO1[K1]: describe nth derivative, partial derivative, total derivative of functions and the method of finding envelope and curvature</p>

			<p>CO2[K2]: exemplify successive differentiation, partial differentiation, the envelope of given family of curves, evolute, involute and curvature of curves</p> <p>CO3[K3]: apply successive differentiation and partial differentiation in finding envelope and curvature</p> <p>CO4[K4]: analyze the method of finding successive differentiation, partial differentiation, envelope and curvature</p> <p>CO5[K5]: determine successive differentiation, partial differentiation of functions, envelope of family of curves and curvature of a curve</p>
3.	23UMAS11	Skill Enhancement Course I: Foundation Course: Bridge Mathematics	<p>CO1[K1]: recall the basics of mathematics</p> <p>CO2[K2]: explain the fundamentals of mathematics</p> <p>CO3[K3]: solve simple problems in Algebra, Sequences and Series, Permutations and Combinations, Trigonometry and Calculus</p> <p>CO4[K4]: interpret the elementary concepts of Algebra, Sequences and Series, Permutations and Combinations, Trigonometry and Calculus</p> <p>CO5[K5]: assess the formulae and identities in the branches of mathematics, namely, Algebra, Sequences and Series, Permutations and Combinations, Trigonometry and Calculus</p>
4.	23UMAN11	Skill Enhancement Course II: Non Major Elective Course : Mathematics for Competitive Examinations	<p>CO1[K1]: list out the basic mathematical formulae</p> <p>CO2[K2]: explain the methods of solving aptitude problems</p> <p>CO3[K3]: manipulate arithmetic operations to solve aptitude problems</p> <p>CO4[K4]: analyze and make sense of the given data</p> <p>CO5[K5]: choose the most appropriate method to solve aptitude problems</p>
SEMESTER- II			
5.	23UMAC21	Core Course III : Analytical Geometry(Two & Three	<p>CO1[K1]: describe two-dimensional and three – dimensional Cartesian co-ordinates and the geometric objects line, plane, sphere on the co-ordinate system</p>

		Dimensions)	<p>C02[K2]: find pole, polar for conics, diameters, conjugate diameters for ellipse and hyperbola, equation of straight lines, circles, planes and spheres</p> <p>C03[K3]: solve the problems on two-dimensional and three – dimensional geometric shapes</p> <p>C04[K4]: analyze the characteristics and properties of two-dimensional and three – dimensional geometric shapes</p> <p>C05[K5]: evaluate the system of two-dimensional and three – dimensional geometric shapes</p>
6.	23UMAC22	Core Course IV : Integral Calculus	<p>C01[K1]: recognize the types of reduction formulae, methods of finding integrals of algebraic, trigonometric, logarithmic functions, the properties of double and triple integrals, beta and gamma functions</p> <p>C02[K2]: explain the relation between beta and gamma functions, geometric and physical applications of integral calculus</p> <p>C03[K3]: solve multiple integrals and to find the areas of curved surfaces and volumes of solids of revolution</p> <p>C04[K4]: investigate the types of reduction formula, techniques of integration, the properties of beta and gamma functions</p> <p>C05[K5]: evaluate double and triple integrals, indefinite integrals using beta and gamma functions</p>
7	23UMAN21	Skill Enhancement Course IV: Non Major Elective Course : Statistics for Data Analytics	<p>C01[K1]: state the formula for finding descriptive measures of statistics</p> <p>C02[K2]: describe the statistical method of classifying data and finding descriptive measures of statistics</p> <p>C03[K3]: apply the statistical methods and techniques to find numerical measures of quantitative data</p> <p>C04[K4]: classify and investigate the quantitative data to obtain descriptive measures of statistics</p>

			C05[K5]: choose the appropriate measure of statistics for the given quantitative data
SEMESTER- III			
8.	23UMAC31	Core Course V – : Vector Calculus and Applications	C01[K1]: state the identities and operations in vector calculus C02[K2]: explain the basic concepts of vector differentiation and vector integration C03[K3]: find the important quantities associated with vector fields such as gradient, divergence, curl and the line, surface, volume integration of vector functions C04[K4]: verify the identities involving vector quantities and the theorems of Gauss', Stoke's, Green's C05[K5]: evaluate vector identities and their effectiveness in manipulating vectorexpressions to solve real life situations
9.	23UMAC32	Core Course – VI : Differential Equations and Applications	C01[K1]: describe the basic concepts of ordinary and partial Differential Equations C02[K2]: identify the types of Ordinary and Partial Differential Equations solve the Ordinary and Partial Differential Equations of first order and second order C03[K3]: solve the Ordinary and Partial Differential Equations of first order and second order C04[K4]: examine the different forms of Ordinary and Partial Differential Equations for finding the solutions C05[K5]: determine the appropriate method of solving Ordinary and Partial Differential Equations.
10.	23UMAA31	Elective Course Generic/ Discipline Specific - III: Mathematical Statistics	C01[K1]: describe the basic terminologies in statistical analysis of quantitative data C02[K2]: explainthebasicstatisticalmethodsandtechniquesindataanalysis C03[K3]: applythestatisticalmethodsandtechniquestofindnumericalmeasuresofqu antitativedata and

			<p>calculate mathematical expectation and generating function of random variables</p> <p>C04[K4]: analyze the properties of statistical measures and distribution functions of random variables</p> <p>C05[K5]: determine the appropriate measure that represent the whole quantitative data in hand and the curve that best fit the given data</p>
11.	23UMAS3P	Skill Enhancement Course- V: (Entrepreneurial Skill)- Practical: Web Designing	<p>C01[K2]: explain the features of HTML, CSS and Java Script</p> <p>C02[K3]: use HTML, CSS and Java Script program codings/commands to prepare a webpage</p> <p>C03[K4]: identify and rectify errors in HTML, CSS and Java Script codings</p> <p>C04[K5]: select and manage tools of HTML, CSS and Java Script</p> <p>C05[K6]: prepare a web page</p>
12.	23UMAS3Q	Skill Enhancement Course - VI: Practical: LaTeX	<p>C01[K2]: explain the features of Latex</p> <p>C02[K3]: use Latex program codings/commands to prepare academic document</p> <p>C03[K4]: identify and rectify errors while run a Latex program</p> <p>C04[K5]: select and manage tools of Latex</p> <p>C05[K6]: prepare a document using Latex</p>
SEMESTER- IV			
13.	23UMAC41	Core Course -VII : Industrial Statistics	<p>C01[K1]: describe the basic statistical methods and techniques in data analytics</p> <p>C02[K2]: explain the importance of statistical quality control, time series trend values, analysis of variance and randomized experimental design</p> <p>C03[K3]: apply the statistical tools and techniques to manage product quality, compare variances across the means, predict future</p> <p>C04[K4]: interpret the conclusion drawn by the statistical methods of quality control, time series, analysis of variance and randomized experiment</p>

			<p>design, events and draw valid inference</p> <p>C05[K5]: estimate a valid statistical inference by the statistical methods of quality control, time series, analysis of variance and randomized experiment design, events and draw valid inference</p>
14.	23UMAC42	Core Course – VIII : Elements of Mathematical Analysis	<p>C01[K1]: describe the fundamental concepts of sets and functions, sequences and series of real numbers, continuous function on a metric space</p> <p>C02[K2]: explain the various tests for the convergence of sequences and series of real numbers</p> <p>C03[K3]: apply the abstract concepts to produce proofs of results that arise in the context of real analysis</p> <p>C04[K4]: verify the countability of sets, convergence of sequence and series of real numbers, continuity of functions on a metric space</p> <p>C05[K5]: determine the bounds and limits of real sequences, the sum of real series</p>
15.	23UMAA41	Elective Course Generic/ Discipline Specific - IV: Numerical Methods with Applications	<p>C01[K1]: describe the basic concepts in numerical analysis</p> <p>C02[K2]: explain the methods of solving algebraic, transcendental, simultaneous equations, finding numerical differentiation and integration</p> <p>C03[K3]: apply numerical methods to obtain approximate solutions of algebraic, transcendental and simultaneous equations, numerical differentiation and integration of given functions</p> <p>C04[K4]: examine the numerical solution of algebraic, transcendental, simultaneous equations, numerical differentiation and integration of functions and interpolating values of the given data</p> <p>C05[K5]: determine the appropriate method of solving algebraic, transcendental, simultaneous equations numerically, finding numerical differentiation and integration of functions and finding missing values of a given data</p>

16.	23UMAS4P	Skill Enhancement Course – VII: Practical: Statistics with SPSS	CO1[K1]: state the basic functions of SPSS CO2[K2]: explain various procedures in SPSS to perform statistical data analysis CO3[K3]: solve statistical problems through a hoc analysis, hypothesis testing and predictive analysis using SPSS CO4[K4]: analyze and interpret statistical data through SPSS CO5[K5]: select and manage SPSS software with flexible deployment options
17.	23UMAS4Q	Skill Enhancement Course – VIII: Practical: Data Analysis using R	CO1[K1]: state the fundamental commands and syntax of R CO2[K2]: explain the steps to perform data analysis in R CO3[K3]: use R programming to analyze quantitative data CO4[K4]: identify and rectify errors while running R program CO5[K5]: select and manage tools of R
SEMESTER- V			
19.	23UMAC51	Core Course – IX : Abstract Algebra	CO1[K1]: state the fundamental concepts of groups and rings CO2[K2]: identify the algebraic structures of groups and rings CO3[K3]: apply the abstract concepts to produce proofs of results that arise in the context of groups and rings CO4[K4]: examine the properties of groups, rings and integral domains CO5[K5]: assess the structure of groups and rings
20.	23UMAC52	Core Course – X : Real Analysis	CO1[K1]: describe the basic elements of real analysis CO2[K2]: explain the basic concepts and proof techniques in real analysis CO3[K3]: apply the abstract concepts to produce proofs of results that arise in the context of real analysis CO4[K4]: explore the characterization of connected, complete, compact metric spaces and the properties of derivatives and integrals of functions

			C05[K5]: determine the continuity and convergence of functions on metric spaces, the connectedness, completeness, compactness, boundedness of sets in a metric space, the derivative and integral of functions on metric spaces
21.	23UMAC53	Core Course – XI : Mathematical Modelling	C01[K1]: recognize the basics of mathematical modeling C02[K2]: identify and simplify the real-world problem situation C03[K3]: construct a mathematical model of real-world problems and solve the model using differential and difference equations C04[K4]: interpret the mathematical models of the real-world problems C05[K5]: validate the mathematical model of the real-world problems
22.	23UMAJ51	Core Course – XII: Project with Viva Voce	C01[K2]: express their views with apt illustrations and critical support C02[K3]: organize the views and format them into a research paper C03[K4]: analyze the views which take about various approaches to the definition terms C04[K5]: evaluate the findings of the study C05[K6]: compile the Documentation as per the latest Research Methodology
23.	23UMA05P	Elective Courses Generic/ Discipline Specific - V: Programming in C with Practical	C01[K1]: identify the basic concepts of the programming language C C02[K2]: classify the operations of input , output and decision making statements C03[K3]: apply the concepts of functions and arrays for efficient execution of task C04[K4]: analyze the various methods of solving a problem and choose the best method C05[K5]: evaluate the importance and usage of various concepts of pointers
24.	23UMA05Q	Elective Courses Generic/ Discipline	C01[K1]: outline the basic concepts of PHP C02[K2]: understand the basics of PHP functions, forms and expressions

		Specific - V:PHP Programming with Practical	C03[K3]: illustrate the concepts of server variables and debug the errors C04[K4]: examine the importance and usage of various expressions and forms C05[K5]: design and create a web page using form elements to build a challenging subsystem
25.	23UMA051	Elective Courses Generic/ Discipline Specific - VI:Optimization Techniques	C01[K1]: state the terms, tools and techniques of solving optimization problems C02[K2]: explain the solution procedure for solving linear programming problems, game theory problems and queueing theory problems C03[K3]: find the optimal solution of linear programming problems, problems in game theory and queueing theory C04[K4]: examine the optimality of solutions of optimization problems C05[K5]: determine an appropriate method of solving linear programming problems, problems in game theory and queueing theory
26.	23UMA052	Elective Courses Generic/ Discipline Specific - VI: Integral Transforms & Z Transforms	C01[K1]: describe the boundary value and initial value problems C02[K2]: explain the general form and properties of various integral transforms C03[K3]: find the Fourier, Hilbert, Stieltjes, Hankel and Z-Transform of given functions C04[K4]: analyze the properties of integral transforms C05[K5]: determine the appropriate integral transform that simplifies the computational techniques considerably
27.	23UMAJ52	INTERNSHIP/INDUSTRIAL TRAINING	C01[K1]: identify different career paths within the industry and gain insights into potential future roles C02[K3]: apply theoretical concepts and academic knowledge to real-world situations and challenges encountered during the internship C03[K4]: analyse problems, generate innovative solutions, and make informed decisions C04[K5]: evaluate how to manage time effectively and prioritize tasks to

			<p>meet deadlines and deliver quality work</p> <p>C05[K6]: create a portfolio of the work, projects, and achievements during the internship</p>
SEMESTER- VI			
28.	23UMAC61	Core Course – XIII : Linear Algebra	<p>C01[K1]: describe the important topics of linear algebra</p> <p>C02[K2]: explain the basic concepts and general theory of vector spaces, inner product spaces and matrices</p> <p>C03[K3]: apply the abstract concepts to produce proofs of results that arise in the context of linear algebra</p> <p>C04[K4]: interpret the matrix representation of system of linear equations and linear transformations, Cayley-Hamilton theorem and Gram-Schmidt orthogonalization process</p> <p>C05[K5]: determine linear span of a set, basis and dimension of a vector space, matrix representation of a linear transformation, orthogonal basis of an inner product space, eigen values and eigen vectors of a matrix</p>
29.	23UMAC62	Core Course – XIV : Complex Analysis	<p>C01[K1]: describe the elementary topics in complex analysis</p> <p>C02[K2]: explain the basic concepts and properties of functions of complex variables</p> <p>C03[K3]: apply the abstract concepts to produce proofs of results that arise in the context of complex analysis</p> <p>C04[K4]: analyze the behaviour of analytic functions and conformal maps, convergence of sequences and series of functions of complex variables</p>

			<p>C05[K5]: determine the continuity, differentiability, integrability of complex functions, series expansion of analytic functions in the region of convergence, zeros and poles of analytic functions</p>
30.	23UMAC63	Core Course – XV: Mechanics	<p>C01[K1]: describe the basic terminologies of mechanics</p> <p>C02[K2]: explain the fundamental concepts and principles of mechanics</p> <p>C03[K3]: apply the principles and methods of mechanics to find the resultant of forces on bodies concerned in statics and kinematic quantities of projectile motion</p> <p>C04[K4]: investigate the motion of a particle under action of various forces</p> <p>C05[K5]: evaluate the fundamental laws of mechanics</p>
31.	23UMA061	Elective Courses Generic/ Discipline Specific - VII: Graph Theory and Applications	<p>C01[K1]: describe the basic terminologies of graph theory</p> <p>C02[K2]: explain the elements and concepts in graph theory</p> <p>C03[K3]: apply the abstract concepts to produce proofs of results that arise in the context of graph theory</p> <p>C04[K4]: examine the characterizations of various graphs</p> <p>C05[K5]: determine connectivity, traversability, planarity, cutpoints, bridges, blocks of a graph and various operations on graphs</p>
32.	23UMA062	Elective Courses Generic/ Discipline Specific - VII: Discrete Mathematics	<p>C01[K1]: describe terminologies related to functions, recurrence relations, logic, semigroups, monoids</p> <p>C02[K2]: explain the basic concepts related to functions, semigroups, monoids, recurrence relation, logic</p> <p>C03[K3]: find the inverse and composition of functions, solution of recurrence relations, truth values of propositional statements, normal forms of logical statements</p> <p>C04[K4]: analyze the types of functions, the axioms and properties of the algebraic structures semigroups and monoids, recurrence relations of sequences,</p>

			<p>tautological implications and the theory of inference validate the equivalence of logic formulae, homomorphism C05[K5]: and isomorphism of semigroups and monoids, the generating functions of recurrence relations</p>
33.	23UMA06P	<p>Elective Courses Generic/ Discipline Specific - VIII: Programming in C++ with Practical</p>	<p>C01[K1]: outline the C++ programming fundamentals and the concepts of object-oriented programming like object and class, Encapsulation, inheritance and polymorphism. C02[K2]: explain the control structures, types of constructors, inheritance and different type conversion mechanisms C03[K3]: use C++ codes efficiently to develop programs C04[K4]: analyze the importance of object oriented programming features like polymorphism, reusability, generic programming, data abstraction and the usage of exception handling C05[K5]: determine the use of object oriented features such as classes, overloading to develop C++ programs for complex problems.</p>
34.	23UMA06Q	<p>Elective Courses Generic/ Discipline Specific - VIII: Programming in Python with Practical</p>	<p>C01[K1]: outline the basic concepts in python language. C02[K2]: interpret different looping and conditional statements in python language. C03[K3]: apply the various data types and identify the usage of control statements, loops, functions. C04[K4]: analyze and solve problems using basic constructs and techniques of python. C05[K5]: assess the approaches used in the development of interactive application.</p>
35.	23UMAS6P	<p>Skill Enhancement Course – IX: Professional</p>	<p>C01[K1]: describe the features of Matlab, Maple, Scilab C02[K2]: explain the basics of Matlab, Maple, Scilab C03[K3]: use Matlab, Maple, Scilab codings/commands to do mathematical</p>

		Competency Skill: Practical: Computational Mathematics	manipulations CO4[K4]: identify and rectify errors while running Matlab, Maple, Scilab programs CO5[K5]: select and manage tools of Matlab, Maple, Scilab
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B.Sc. Physics / B. Sc. Chemistry

S.No	Course Code	Course Name	Course Outcomes
SEMESTER- I			
1.	23UPHA11/23UCHA11	ELECTIVE COURSE GENERIC / DISCIPLINE SPECIFIC - I: MATHEMATICS - I	CO1[K1]: state the elementary concepts of calculus, numerical methods of solving equations, eigen values and eigen vectors of matrices CO2[K2]: explain the application of differentiation, integration and the method of solving polynomial equations numerically CO3[K3]: find the numerical solution of polynomial equations, eigen values and eigen vectors of matrices, curvature and radius of curvature of curves, area, volume and centroid of surfaces CO4[K4]: interpret Cayley-Hamilton theorem, Leibnitz theorem, Jacobian determinant, iterative methods of solving polynomial equations CO5[K5]: determine the approximate solution of polynomial equations numerically, inverse, eigen values and eigenvectors of a matrix, n^{th} derivative of a function, curvature and radius of curvature of a curve, double and triple integration of integrands
SEMESTER- II			

2.	23UPHA21/23UCHA21	ELECTIVE COURSE GENERIC / DISCIPLINE SPECIFIC - II:MATHEMATICS - II	<p>CO1[K1]: describe the terminologies intrigonometric functions, hyperbolic functions, partialdifferentiation, vector calculus and interpolation</p> <p>CO2[K2]: explain the elementary concepts of trigonometric functions, hyperbolicfunctions, partial differentiation, vector calculus and interpolation</p> <p>CO3[K3]: find out the expansions of trigonometric functions, the missing valuesofgiven data, divergence and curl of the vector field, partial differentiation of functions</p> <p>CO4[K4]: characterize the properties of divergence and curl, hyperbolic functions and partial derivatives of functions</p> <p>CO5[K5]: determine the missing values of given data, partial differentiation of functions, expansion of trigonometric functions, derivatives of vector functions</p>
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B.Sc. Computer Science/Computer Science (Cloud Computing and Cyber Security)

S.No	Course Code	Course Name	Course Outcomes
SEMESTER- I			
1.	23UCSA11 /23UCYA11	ELECTIVE COURSE GENERIC / DISCIPLINE SPECIFIC - I:DISCRETE MATHEMATICS - I	<p>CO1[K1]: define the discrete objects in the context of mathematical structures forcomputer science and applications</p> <p>CO2[K2]: recognizethepropertiesofsetoperations, relations and functions, matrix operations, logic statements, various graphs</p> <p>CO3[K3]: compute various operations on sets, relations, functions, matrices, graphs and truth values of logic statements</p>

			<p>CO4[K4]: classify the types of relations, functions, matrices, logic statements and graphs</p> <p>CO5[K5]: assess the equivalency of relations, invertibility of functions, tautological implications and equivalence of logic formulae, the method of solving graph optimization problems</p>
SEMESTER- II			
2.	23UCSA21 / 23UCYA21	ELECTIVE COURSE GENERIC / DISCIPLINE SPECIFIC - II: DISCRETE MATHEMATICS - II	<p>CO1[K1]: state the basic terminologies of linear programming problem, transportation problem, assignment problem, curve fitting, numerical solutions of polynomial equations</p> <p>CO2[K2]: explain the methods of solving linear programming problem, transportation problem, assignment problem, fitting curve for given data, solving polynomial equations numerically</p> <p>CO3[K3]: find optimal solution of linear programming problem, transportation problem, assignment problem, numerical solution of polynomial equations and a curve that best fit the given data</p> <p>CO4[K4]: examine the optimality of solutions of linear programming problem, transportation problem, assignment problem and the empirical relation of given data</p> <p>CO5[K5]: assess the method of finding the optimal solution of linear programming problem, transportation problem, assignment problem, the curve that best fit the given data, the numerical solution of polynomial equations</p>
SEMESTER- III			
3.	23UCSA31/23UCYA31	ELECTIVE COURSE	CO1[K1]: describe the basic concepts in numerical analysis

		GENERIC / DISCIPLINE SPECIFIC - III: NUMERICAL METHODS	<p>CO2[K2]: explain the methods of solving algebraic, transcendental, differential equations numerically, finding numerical differentiation and integration and interpolating values</p> <p>CO3[K3]: apply numerical methods to obtain approximate solutions of algebraic, transcendental and differential equations, numerical differentiation and integration of given functions, missing values of given data</p> <p>CO4[K4]: examine the numerical solution of algebraic, transcendental differential equations, numerical differentiation and integration of functions and interpolating values of the given data</p> <p>CO5[K5]: determine the appropriate method of solving algebraic, transcendental differential equations numerically, finding missing values of a given data, interpolating the given data</p>
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BCA

S.No	Course Code	Course Name	Course Outcomes
SEMESTER- I			
1.	23UCAA11	ELECTIVE COURSE GENERIC / DISCIPLINE SPECIFIC - I: DISCRETE MATHEMATICS - I	<p>CO1[K1]: define the discrete objects in the context of mathematical structures for computer science and applications</p> <p>CO2[K2]: recognize the properties of set operations, relations and functions, matrix operations, logic statements, various graphs</p> <p>CO3[K3]: compute various operations on sets, relations, functions, matrices, graphs and truth values of logic statements</p> <p>CO4[K4]: classify the types of relations, functions, matrices, logic</p>

			statements and graphs CO5[K5]: assess the equivalency of relations, invertibility of functions, tautological implications and equivalence of logic formulae, the method of solving graph optimization problems
SEMESTER- II			
2.	23UCAA21	ELECTIVE COURSE GENERIC/ DISCIPLINE SPECIFIC- II:OPTIMIZATION TECHNIQUES	CO1[K1]: state the basic terminologies of linear programming problem, transportation problem and assignment problem CO2[K2]: explain the methods of solving linear programming problem, transportation problem and assignment problem CO3[K3]: find optimal solution of linear programming problem, transportation problem and assignment problem CO4[K4]: examine the optimality of solutions of linear programming problem, transportation problem and assignment problem CO5[K5]: determine the appropriate method of finding the optimal solution of linear programming problem, transportation problem and assignment problem

B.Sc(IT)

S.No	Course Code	Course Name	Course Outcomes
SEMESTER- I			
1.	23UITA11	ELECTIVE COURSE GENERIC / DISCIPLINE SPECIFIC - I:DISCRETE MATHEMATICS - I	CO1[K1]: define the discrete objects in the context of mathematical structures for computer science and applications CO2[K2]: recognize the properties of set operations, relations and functions, matrix operations, logic statements, various graphs CO3[K3]: compute various operations on sets, relations, functions, matrices, graphs and truth values of logic statements CO4[K4]: classify the types of relations, functions, matrices, logic

			<p>statements and graphs</p> <p>CO5[K5]: assess the equivalency of relations, invertibility of functions, tautological implications and equivalence of logic formulae, the method of solving graph optimization problems</p>
SEMESTER- II			
2.	23UITA21	<p>ELECTIVE COURSE GENERIC / DISCIPLINE SPECIFIC - II: DISCRETE MATHEMATICS - II</p>	<p>CO1[K1]: state the basic terminologies of linear programming problem, transportation problem, assignment problem, curve fitting, numerical solutions of polynomial equations</p> <p>CO2[K2]: explain the methods of solving linear programming problem, transportation problem, assignment problem, fitting curve for given data, solving polynomial equations numerically</p> <p>CO3[K3]: find optimal solution of linear programming problem, transportation problem, assignment problem, numerical solution of polynomial equations and a curve that best fit the given data</p> <p>CO4[K4]: examine the optimality of solutions of linear programming problem, transportation problem, assignment problem and the empirical relation of given data</p> <p>CO5[K5]: assess the method of finding the optimal solution of linear programming problem, transportation problem, assignment problem, the curve that best fit the given data, the numerical solution of polynomial equations</p>