

P.K.R ARTS COLLEGE FOR WOMEN

(Accredited with 'A' Grade by NAAC)

An Autonomous Institution-Affiliated to Bharathiar University

Gobichettipalayam-638476

Department of Mathematics

PROGRAMME: **B.Sc Mathematics**

Scheme of Examinations and Syllabus

For the candidates admitted during 2017-2018 and onwards

Under CBCS PATTERN



COURSE OUTCOMES

DEPARTMENT OF MATHEMATICS

I SEMESTER

CLASSICAL ALGEBRA	CATEGORY	L	P	CREDIT
	CORE	48	-	4

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	understand the concept of Binomial and Exponential theorems, Convergency and Divergency of series, and multiple roots of an equation.	K₂
CO2	gain the knowledge about the concept of sequence, series and Theory of equations.	K₁
CO3	identify the concept of convergence and divergence through different types of test.	K₄
CO4	learn how to use reciprocals and transformations to solve equations.	K₂ & K₃
CO5	evaluate the problems by using Newton's and Horner's method and by different types of test.	K₅

CALCULUS	CATEGORY	L	P	CREDIT
	CORE	48	-	4

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	gain the idea of curvature & integrals	K₁ & K₂
CO2	apply integration to compute arc lengths, volumes of revolution and surface areas of revolution.	K₃
CO3	determine convergence / divergence of improper integrals.	K₄
CO4	evaluate double and triple integrals by using Beta and Gama functions.	K₅

II SEMESTER

ANALYTICAL GEOMETRY	CATEGORY	L	P	CREDIT
	CORE	60	-	4

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	understand the concepts of conic, Straight line, Sphere, cone and cylinder	K₁ & K₂
CO2	to apply the concepts of analytic geometry to technical problems	K₃ & K₄
CO3	translate descriptive problems into mathematical formulae and solve them	K₂ & K₅
CO4	describe mathematical ideas from cone, cylinder, sphere and conic	K₁ & K₄
CO5	evaluate the nature of geometrical coordinates	K₅

DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS	CATEGORY	L	P	CREDIT
	CORE	48	-	3

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	understand the basic concepts and recognize certain basic types of first order ODE, PDE, laplace and inverse laplace transforms.	K₁, K₂ & K₄
CO2	evaluate the general and complete solutions for second order linear ODEs with constant coefficients	K₅
CO3	apply laplace and inverse laplace transforms to compute solutions of second order linear differential equations	K₃

SEMESTER III

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
CORE	17MAU10	STATICS	36	-	3

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	understand the concept of forces acting on a body	K ₂
CO2	gain the knowledge about parallel forces, coplanar forces, moment of a force, couple and conditions of equilibrium of forces.	K ₁
CO3	analyze problems in a systematic and logical manner and to evaluate resultant of a couple and force.	K ₄ & K ₅
CO4	apply the triangle law, parallelogram law and polygon law of forces to find the resultant force.	K ₃ & K ₅
CO5	construct free-body diagrams and to calculate the reactions necessary to ensure static equilibrium.	K ₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
CORE	17MAU11	TRIGONOMETRY, VECTOR CALCULUS AND FOURIER SERIES	36	-	3

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	gain the knowledge about the series	K₂
CO2	gain the knowledge about summation of series and Logarithm of complex quantities.	K₁
CO3	apply the concept of Scalar and vector fields to find the magnitude and direction.	K₃
CO4	analyze how to use line & surface integral.	K₄
CO5	evaluate the problems by using Gauss divergence theorem, Strokes theorem and Periodic functions.	K₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
ALLIED	17MAU13	STATISTICS - I	60	-	3

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	understand the basic concepts of one dimensional and two dimensional random variables, probability distribution functions and moments.	K₁&K₂
CO2	analyze and apply the concept of mathematical expectations, probability distributions, transformation of variables in real life problems.	K₃&K₄
CO3	analyze the properties of binomial, Poisson, normal distributions.	K₄
CO4	evaluate the coefficient of correlation and regression.	K₅
CO5	solve the problems based on different types of distributions.	K₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
SKILL ENHANCEMENT	17SEU01	INFORMATION SECURITY	24	-	2

Course Outcomes

On the successful completion of the course, students will be able to:

CO Number	CO Statement	Knowledge Level
CO1	Obtain fundamental knowledge of Information Security	K1,K2
CO2	Learn basic concepts of Risks in Information Security	K1,K2
CO3	Familiarize the ideas of security planning and policies	K2,K3
CO4	Understand with Privacy and Ethical Issues in Information Security	K3,K4
CO5	Learn about Cryptography	K4, K5

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
NON- MAJOR ELECTIVE	17NMU01A	INDIAN WOMEN AND SOCIETY	24	-	2

Course Outcomes

On the successful completion of the course, students will be able to:

CO Number	CO Statement	Knowledge Level
CO1	Demonstrate knowledge of the history of women's studies as an academic discipline	K1,K2
CO2	Analyze the various roles of women and the challenges faced by them in the society	K3
CO3	Assimilate and evaluate the importance of women health	K3,K5
CO4	Identify the different issues related to women in general	K4
CO5	Assessing the Women Empowerment and the role of Central & State Government in developing Women	K5

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
NON- MAJOR ELECTIVE	17NMU02A	CAREER ENHANCEMENT (ONLINE EXAM)	36	-	2

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
NON- MAJOR ELECTIVE	17NMU02B	CONSUMER RIGHTS	24	-	2

Course Outcomes

On the successful completion of the course, students will be able to:

CO Number	CO Statement	Knowledge Level
CO1	Understand the procedure of redress of consumer complaints, and the role of different agencies in establishing product and service standards	K2, K3
CO2	To provide a comprehensive introduction to the Consumer Protection Law in India	K1,K2
CO3	Have a conceptual knowledge about the Grievance Redressal Mechanism under the Indian Consumer Protection Law	K3
CO4	Evaluate the regulations and legal actions that helps to protect consumers	K5
CO5	Evaluate the Contemporary Issues in Consumer Affairs	K4,K5

SEMESTER IV

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
CORE	17MAU14	DYNAMICS	36	-	3

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	understand the reason for dynamic changes in the body.	K₂
CO2	gain the knowledge about the field Kinematics, projectile, simple harmonic motion and impact of a particle on a surface.	K₁
CO3	analyze the theoretical relations that exist between force, solid matter and motion.	K₄
CO4	apply the fundamental laws and principles to solve the problems	K₂ & K₃
CO5	evaluate the behaviour of objects in motion	K₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
CORE	17MAU15	NUMERICAL METHODS	60	-	3

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	define the Numerical Algebraic and Transcendental Equations and gain the knowledge about the Interpolation.	K₁ & K₂
CO2	analyze and apply the various methods to solve the Algebraic and Transcendental Equations and the system of Simultaneous linear algebraic equations.	K₄ & K₃
CO3	analyze the different kinds of difference operators.	K₄
CO4	learn and analyze the convergence conditions of Iteration and Newton – Raphson method.	K₂ & K₄
CO5	evaluate the problems by using different types of methods.	K₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
ALLIED	17MAU17	STATISTICS - II	60	-	3

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	understand the basic concepts of population, sample, point estimation, moments, type – I and type – II errors.	K₁&K₂
CO2	analyze the concepts of different types of estimation.	K₄
CO3	apply the methods of estimation and its characteristics to solve problems .	K₃
CO4	analyze the concept of test of significance, non sampling, simple random sampling, stratified random sampling, and systematic sampling.	K₄
CO5	evaluate the testing of significance for standard deviation, proportions, difference of means, difference of propotion by using exact test.	K₅

SEMESTER V

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
CORE	17MAU18	ABSTRACT ALGEBRA	84	-	5

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	gain the knowledge about Sets , Mappings, Groups, Rings and Ideals and Quotient Rings.	K₁
CO2	understand the basic concepts of Abstract Algebra.	K₂
CO3	analyze Cauchy's theorem and Sylow's theorem for Abelian groups.	K₄
CO4	apply the concepts of set theory and group theory to analyze some basic theorems.	K₃
CO5	evaluate the features of set theory.	K₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
CORE	17MAU19	REAL ANALYSIS - I	72	-	5

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	define and recognize the basic notations of set theory, convergence, element of points set topology, derivatives and limits .	K ₁ & K ₂
CO2	apply standard results about closures, intersections, and unions of open and closed sets;	K ₃
CO3	analyze various theorems like Bolzano – Weierstrass theorem and to emphasize the proofs development.	K ₄
CO4	prove the theorems in element of points set topology, Euclidean space and Metric space.	K ₅
CO5	prove the theorems in convergence criteria, derivatives and limits.	K ₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
CORE	17MAU20	COMPLEX ANALYSIS – I	84	-	6

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	understand the definitions of Analytic functions, linear transformations , limits and continuity.	K₁ & K₂
CO2	gain the knowledge about differentiability, analyticity and circle of convergence	K₁
CO3	apply the theorems and results to solve a variety of problems arising in Analytic functions	K₃
CO4	analyze power series , conformal mappings and analytic function	K₄
CO5	evaluate the integral of a complex functions.	K₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
PROFICIENCY ENHANCEMENT	17PEU01	FINANCIAL MATHEMATICS (SELF STUDY)	-	-	2

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDG E LEVEL
CO1	understand and gain knowledge about Measures of Central tendency.	K₁ & K₂
CO2	apply different methods to solve problems on Bankers Discount and Bankers Gain.	K₃
CO3	learn how to apply the various techniques of Transportation problems	K₃
CO4	analyze simple and compound Interest.	K₄
CO5	evaluate Forecasting method problems	K₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
ELECTIVE	17MAU24A	OPERATIONS RESEARCH-I	60	-	4

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	understand the meaning, purpose, and tools of operations research.	K₂
CO2	gain the knowledge about LPP.	K₁
CO3	apply the concepts of queuing theory to solve real life problem	K₃
CO4	analyze the use of decision analysis	K₄
CO5	evaluate the problems by using various methods such as Gomory's fractional cut Method, Branch Bound Method.	K₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
ELECTIVE	17MAU24B	DISCRETE MATHEMATICS - I	60	-	4

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	define the basic terms of logical operations, relations, functions.	K₁
CO2	apply the rules of inference and tests for validity in predicate calculus.	K₃
CO3	analyze the types of functions.	K₄
CO4	evaluate boolean functions and simplify expression using the properties of boolean algebra.	K₅
CO5	understand the concepts of Lattices and boolean algebra	K₂

SEMESTER VI

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
CORE	17MAU25	LINEAR ALGEBRA	72	-	5

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	gain the knowledge about Vector space, Basis, Dual spaces, Inner product spaces.	K ₁
CO2	understand the basic concepts of Linear Algebra	K ₂
CO3	apply Linear Algebra concepts to find the dimensions	K ₃
CO4	analyze the concepts of basic theorems and inequalities.	K ₄
CO5	evaluate the characterization of linear vectors, linear transformations and linear functional.	K ₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
CORE	17MAU26	REAL ANALYSIS II	72	-	5

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	define and understand the basic notations of continuity, Derivatives, Functions of Bounded variation	K₁ & K₂
CO2	apply the use of limits of continuous functions, including the fact that continuous functions attain extreme values on compact sets;	K₃
CO3	analyze the concepts of continuity criteria, derivatives and Riemann-Stieltjes integral.	K₄
CO4	prove the theorems in, Continuity, Derivatives, and Functions of Bounded variation	K₅
CO5	prove the theorems in Riemann-Stieltjes integral.	K₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
CORE	17MAU27	COMPLEX ANALYSIS – II	72	-	6

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	understand the definitions of Analytic functions and singularities	K₂
CO2	gain the knowledge about Taylor's series , Laurent's series and definite integrals	K₁
CO3	apply the theorems and results to solve a variety of problems involving Analytical function	K₃
CO4	identify and analyze the singularities, residues, Taylor and Laurent series	K₂ & K₄
CO5	evaluate the complicated real definite integrals	K₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
ELECTIVE	17MAU29A	OPERATIONS RESEARCH-II	60	-	4

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	understand the basic concepts, models and statements of the operations research.	K₂
CO2	gain the knowledge about quantitative models.	K₁
CO3	apply the various method to solve a linear programming problems.	K₃
CO4	analyze the use of different types of quantitative decision making processes	K₄
CO5	evaluate and develop mathematical arguments in a logical manner	K₅

Course Outcomes

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
ELECTIVE	17MAU29B	DISCRETE MATHEMATICS -II	60	-	4

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	understand the basic concepts of graph theory and finite state automata	K₂
CO2	gain the knowledge about different types of grammars.	K₁
CO3	apply the concepts of graph theory to solve problems in computer networks.	K₃
CO4	analyze and design finite automata, formal languages and grammars.	K₄
CO5	construct finite state machines and the equivalent regular expressions	K₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
ELECTIVE	17MAU30A	LATEX	60	-	4

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	learn the environment of LaTeX.	K₁
CO2	understand the basics of LaTeX .	K₂
CO3	apply LaTeX concepts in creating tables.	K₃
CO4	analyze the concepts of LaTeX to write programs.	K₄
CO5	determine the LaTeX commands .	K₅

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
ELECTIVE	17MAU30B	GRAPH THEORY	60	-	4

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	gain the knowledge about various types of Graphs and understand the basic concepts of Graph Theory	K₁ & K₂
CO2	apply Euler's theorem on planar Graphs	K₃
CO3	analyze the difference between Eulerian and Hamiltonian graphs and apply Fleury's algorithm to solve the problems.	K₃ & K₄
CO4	evaluate the characterization of the graphs	K₅
CO5	understand the concepts of Connectivity, Eulerian Digraphs and Tournaments.	K₂

SYLLABUS FOR CORE OPTIONAL OFFERED BY DEPARTMENT OF MATHEMATICS

CATEGORY	COURSE CODE	TITLE OF THE COURSE	C	P	CREDIT
CORE OPTIONAL	***	MATHEMATICS FOR BUSINESS	36	-	3

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	gain the knowledge about set theory and matrix.	K₁
CO2	apply different quantitative models in solving business problems.	K₃
CO3	understand the different types of matrices.	K₂
CO4	determine simple and compound Interest.	K₄
CO5	evaluate Sequence and series.	K₅

SYLLABUS FOR ALLIED COURSES

P.K.R ARTS COLLEGE FOR WOMEN

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BBA DEGREE PROGRAMME

I SEMESTER

BUSINESS	CATEGORY	L	P	CREDIT
MATHEMATICS	ALLIED	60	-	4

Course Outcomes

On the successful completion of the course students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	gain and understand about set theory, matrix, simple interest, and compound interest.	K₁ & K₂
CO2	apply different quantitative models in solving business problems.	K₃
CO3	analyze the difference between Simple and Compound Interest.	K₄
CO4	calculate the present value of a simple interest investment at a given time within the term of the investment.	K₅
CO5	evaluate the solution of simultaneous linear equations	K₅

P.K.R ARTS COLLEGE FOR WOMEN

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B.Sc (CS) / B.Sc (IT) / BCA DEGREE PROGRAMME

I SEMESTER

MATHEMATICAL STRUCTURE FOR COMPUTER SCIENCE	CATEGORY	L	P	CREDIT
	ALLIED	60	-	4

Course Outcome

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	gain and understand about Matrix, Numerical Differentiation and Integration, Measures of central tendency.	K₁ & K₂
CO2	solve the system of simultaneous linear algebraic equations numerically by using various methods.	K₃
CO3	analyze the Relationship among mean, median and mode.	K₄
CO4	analyze and apply the concepts of Differentiation and Integration numerically.	K₃ & K₄
CO5	evaluate the problems under Matrices, Linear equation, Numerical Differentiation and Integration, Measures of central tendency.	K₅

P.K.R ARTS COLLEGE FOR WOMEN
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An Autonomous Institution-Affiliated to Bharathiar University

B.Com (PA) DEGREE PROGRAMME

I SEMESTER

MATHEMATICS FOR BUSINESS	CATEGORY	L	P	CREDIT
	ALLIED	52	-	4

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	gain the knowledge about set theory, matrix, differentiation, and integration.	K₁ & K₂
CO2	apply different quantitative models in solving business problems, graphical solution by simplex method.	K₃
CO3	determine simple and compound Interest, indefinite and definite Integrals of simple functions.	K₄
CO4	evaluate the first and second order derivatives and determine the solution of Simultaneous Linear Equations	K₅

P.K.R ARTS COLLEGE FOR WOMEN

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An Autonomous Institution-Affiliated to Bharathiar University

B.Sc (PHY) DEGREE PROGRAMME

I SEMESTER

ALLIED	CATEGORY	L	P	CREDIT
MATHEMATICS-I	ALLIED	84	-	

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	gain and understand about the different types of roots namely irrational roots, complex roots	K₁& K₂
CO2	gain the knowledge about Eigen values and Eigen vectors	K₁
CO3	apply shift theorem to compute the laplace transform and inverse laplace transform.	K₃
CO4	analyze hyperbolic functions.	K₄
CO5	evaluate the problems in Laplace transforms, inverse Laplace transforms and Fourier series.	K₅

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BBA DEGREE PROGRAMME

II SEMESTER

BUSINESS STATISTICS	CATEGORY	L	P	CREDIT
	ALLIED	60	-	4

Course Outcomes

On the successful completion of the course students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	gain the knowledge about Measures of Central tendency, Correlation and Regression, Time Series.	K₁
CO2	understand the wide variety of specific statistical tools.	K₂
CO3	apply statistical methods for estimating measures of central tendency.	K₃
CO4	analyze the difference between correlation and regression.	K₄
CO5	evaluate the simple problems based on measures of central tendency, correlation and Regression.	K₅

P.K.R ARTS COLLEGE FOR WOMEN

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B.Sc (CS) / B.Sc (IT) / BCA DEGREE PROGRAMME

II SEMESTER

DISCRETE	CATEGORY	L	P	CREDIT
MATHEMATICS	ALLIED	60	-	4

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	define the basic terms of set operations, logical operations, relations and graphs	K₁
CO2	apply laws of set theory, rules of logical operations, and evaluate problems	K₃ & K₅
CO3	analyze languages, grammar and its types	K₄
CO4	understand how to represent a graph in computer memory	K₂
CO5	evaluate the problems using logical operations	K₅

P.K.R ARTS COLLEGE FOR WOMEN

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An Autonomous Institution-Affiliated to Bharathiar University

B.Com (PA) DEGREE PROGRAMME

II SEMESTER

STATISTICS FOR BUSINESS	CATEGORY	L	P	CREDIT
	ALLIED	48	-	4

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	gain deep knowledge about Measures of Central tendency, Correlation and Regression ,Time Series, Index Numbers and Interpolation.	K₁ & K₂
CO2	apply statistical methods for estimating trend on time series, measures of central tendency, measures of dispersion.	K₄
CO3	analyze the concept of probability under addition and multiplication theorems and apply the same.	K₃
CO4	analyze the method of correlation and regression .	K₃
CO5	evaluate the simple problems based on measures of central tendency, measures of dispersion, correlation and Regression, probability addition and multiplication theorems.	K₅

P.K.R ARTS COLLEGE FOR WOMEN

(Accredited with 'A' Grade by NAAC)

An Autonomous Institution-Affiliated to Bharathiar University

B.Sc (PHYSICS) DEGREE PROGRAMME

II SEMESTER

ALLIED	CATEGORY	L	P	CREDIT
MATHEMATICS- II	ALLIED	84	-	4

Course Outcomes

On the successful completion of the course students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	gain the knowledge about the curvature ,differentiation and integration .	K₁& K₂
CO2	apply Beta - Gamma functions to solve the integral	K₃
CO3	analyze the types of differential equations and solve the equations.	K₄
CO4	solve the second order linear differential equations with constant coefficients and variable coefficients.	K₅
CO5	Solve the problems based on partial differential equations.	K₅

P.K.R ARTS COLLEGE FOR WOMEN

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An Autonomous Institution-Affiliated to Bharathiar University

B.Sc (C/S), B.C.A. DEGREE PROGRAMME

III SEMESTER

OPERATIONS RESEARCH	CATEGORY	L	P	CREDIT
	ELECTIVE	48	-	4

Course Outcomes

On the successful completion of the course, students will be able to

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	understand the mathematical tools that are needed to solve optimization problems.	K₂
CO2	gain the knowledge about basic methodology for the solution of linear programming problems.	K₁
CO3	identify operational research models from the verbal description of the real system.	K₄
CO4	learn how to use the various techniques of operations research	K₂ & K₃
CO5	evaluate operation research models to solve real life problem	K₅