

E.M. GOPALAKRISHNA KONE YADAVA WOMEN'S COLLEGE
An Autonomous Institution -Affiliated to Madurai Kamaraj University
Re-accredited (3rd Cycle) with Grade A+ & CGPA 3.51 by NAAC



LESSON PLAN

2022-2023

DEPARTMENT OF **MATHEMATICS**

(UG –Even Semester)



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DEPARTMENT OF MATHEMATICS

I - B.SC MATHEMATICS

LESSON PLAN

2022-2023 (Even)

Sub. Code : 22OUMA21

Title of the Paper: Analytical Geometry of 3-Dimension and Vector Calculus

Total Hours : 75

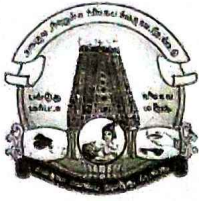
Stream: Regular

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	Equation of a plane - Angle between two planes- Angle Bisectors of two planes	15	Chalk & Talk	A. Maniyala
Jan	II	Equation of the straight line. A plane and a Line.	15	Chalk & Talk	A. Maniyala
Feb	III	Sphere-Equation of a sphere- Tangent line and Tangent plane-Section of a sphere	15	Chalk & Talk	A. Maniyala
March	IV	Differentiation of Vectors- Gradient-Divergence and Curl	15	Chalk & Talk	A. Maniyala
April	V	Line Integrals -Surface Integrals -Theorems of Green, Gauss and Stokes	15	Chalk & Talk	A. Maniyala

P. r. p.

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A. Maniyala
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DEPARTMENT OF MATHEMATICS

I - B.SC MATHEMATICS

LESSON PLAN

2022-2023

Sub. Code : 22OUMA22

Title of the Paper: Differential Equations

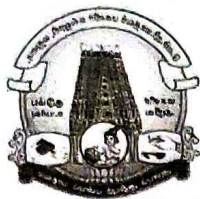
Total Hours : 75

Stream: Regular

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	Exact differential equations- Integrating factors – Equations of first order and higher degree.	15	Chalk & Talk	<i>P. S. P.</i>
Jan	II	Linear equations with constant coefficients- Methods of finding complementary functions- Methods of finding particular integrals- Homogeneous linear equations- Linear equations with variable coefficients (Type A only).	15	Chalk & Talk	<i>P. S. P.</i>
Feb	III	Simultaneous linear differential equations- Total differential equations.	15	Chalk & Talk	<i>P. S. P.</i>
March	IV	Laplace Transform-Inverse Laplace Transform - Solution of differential equations using Laplace Transform.	15	Chalk & Talk	<i>P. S. P.</i>
April	V	Formation of Partial differential equations-First order partial differential equations- Methods of solving first order partial differential equations.	15	Chalk & Talk	<i>P. S. P.</i>

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DEPARTMENT OF MATHEMATICS
I - B.SC MATHEMATICS
LESSON PLAN
2022-2023

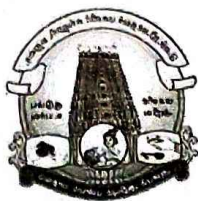
Sub. Code : 22OUMAIID2
Title of the Paper: Mathematics for Competitive Examinations - II
Total Hours : 30
Stream: Regular

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	Ratio and Proportions	6	Chalk &Talk	R. Revathy,
Jan	II	Time and work, Time and Distance	6	Chalk &Talk	R. Revathy,
Feb	III	Simple interest and Compound interest	6	Chalk &Talk	R. Revathy,
March	IV	Logarithms	6	Chalk &Talk	R. Revathy,
April	V	Calendar	6	Chalk &Talk	R. Revathy,

P. R. P.

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R. Revathy
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DEPARTMENT OF MATHEMATICS

II - B.SC MATHEMATICS

LESSON PLAN

2022-2023

Sub. Code : 21M41

Title of the Paper: Graph Theory

Total Hours : 90

Stream: Regular

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	Graphs and subgraphs Defintion and Examples Degrees- Subgraphs - Isomorphism - Independent sets and coverings - Matrices - Operations on Graphs	18	Chalk & Talk	R. N. K.
Jan	II	Connectedness Walks Trails and Paths - Connectedness and Components - Blocks - Continuity - Some Applications - Connector problem - Shortest Path problem	18	Chalk & Talk	R. N. K.
Feb	III	Eulerian and Hamiltonian Graphs : Eulerian Graphs - Hamiltonian Graphs - Trees Characterization of trees- Centre of a Tree	18	Chalk & Talk	R. N. K.
March	IV	Planarity: Defintion and properties Characterization of Planar graphs Thickness Crossing and outer planarity	18	Chalk & Talk	R. N. K.
April	V	Colourability: Chromatic number and Chromatic Index - Five colour theorem - Four colour theorem Chromatic polynomials.	18	Chalk & Talk	R. N. K.

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DEPARTMENT OF MATHEMATICS

II - B.SC MATHEMATICS

LESSON PLAN

2022-2023

Sub. Code : 21ME4A

Title of the Paper: Statics

Total Hours : 60

Stream: Regular

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	Forces acting at a point – Resultant and components – Simple cases of finding the resultant – Parallelogram of forces – Analytical Expression for the resultant of two forces acting at a point – triangle of forces – Perpendicular Triangle of forces – Converse of the triangle of forces – The polygon of forces – Lami's theorem	12	Chalk & Talk	
Jan	II	Resolution of a force – Components of a force along two given directions – Theorem on resolved parts – Resultant of any number of forces and co-planar forces acting at a point: Graphical method and Analytical method – Condition of equilibrium of any number of forces acting upon a particle	12	Chalk & Talk	
Feb	III	Parallel forces and moments – Resultant of two like and unlike parallel forces acting on a rigid body conditions of equilibrium of three coplanar forces of two parallel forces – Moment of a force Varignon's theorem	12	Chalk & Talk	

March	IV	Couples – Equilibrium of two couples – Equivalence of two couples in parallel planes – Representation of a couple by a vector – Resultant of coplanar couples – Resultant of a Couple and a force.	12	Chalk & Talk	R. R. Arumugam
April	V	Friction- Definition and Experimental friction – Laws of friction – Friction on a passive force – coefficient of friction angle of friction – cone of friction – friction on inclined planes – simple problems	12	Chalk & Talk	R. R. Arumugam

R. R. Arumugam

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DEPARTMENT OF MATHEMATICS

II - B.SC MATHEMATICS

LESSON PLAN

2022-2023

Sub. Code : 21SEM41
Title of the Paper: Analytical Geomentry 3-Dimension
Total Hours : 30
Stream: Regular

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	Equation of a plane – Angle between two planes – Angle bisectors of two planes	6	Chalk & Talk	A. Manivelalai
Jan	II	Equation of the Straight line – A plane and a line	6	Chalk & Talk	A. Manivelalai
Feb	III	Sphere – equation of a sphere – Tangent line and Tangent plane – Section of a sphere	6	Chalk & Talk	A. Manivelalai
March	IV	Differentiation of Vectors – Gradient – Divergent and Curl	6	Chalk & Talk	A. Manivelalai
April	V	Line Integrals – Surface Integrals – Theorems of Green, Gauss and Stokes	6	Chalk & Talk	A. Manivelalai

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III - B.SC MATHEMATICS

LESSON PLAN

2022-2023

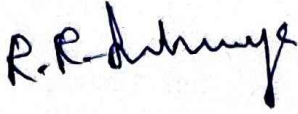
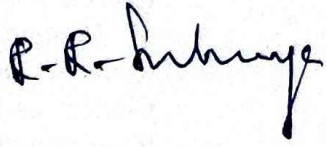
Sub. Code : 17M61

Title of the Paper: Complex Analysis

Total Hours : 90

Stream: Regular

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	Complex Numbers – Conjugation and Modulus- Inequalities – Square Root – Geometrical Representation of Complex Numbers – ⁿ Roots of Complex Numbers – Circles and Straight Lines – Regions in the Complex Plane Functions of a Complex Variable- Limits – Theorems on Limit – Continuous Functions – Differentiability – The Cauchy - Riemann Equations – Analytic Functions - Harmonic Functions.	18	Chalk & Talk	
Jan	II	Bilinear Transformations – Invariant Points - Cross Ratio – Special Bilinear Transformation (i) which map real axis to real axis – (ii) Unit circle to unit circle –(iii) Real axis to unit circle.	18	Chalk & Talk	
Feb	III	Complex Numbers – Conjugation and Modulus- Inequalities – Square Root – Geometrical Representation of Complex Numbers – ⁿ Roots of Complex Numbers – Circles and Straight Lines – Regions in the Complex Plane	18	Chalk & Talk	

March	IV	Complex Integration - Cauchy's Integral Theorem - Extensions of Cauchy's Integral Theorem - Cauchy's integral formula - Derivatives of analytic functions - Morera's Theorem - Cauchy's inequality for $f^n(z_0)$ - Liouville's Theorem - Fundamental Theorem of Algebra - Maximum modulus theorem - Taylor's theorem - Laurent's theorem.	18	Chalk & Talk	
April	V	Singular points - Essential Singularity - Meromorphic function - Principle of the Argument - Rouché's theorem - Fundamental Theorem of Algebra - Evaluation of Residue at a pole - Residue Theorem - Evaluation of Definite Integrals.	18	Chalk & Talk	



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III - B.SC MATHEMATICS

LESSON PLAN

2022-2023

Sub. Code : 17M62

Title of the Paper: Statistics - II

Total Hours : 90

Stream: Regular

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	I Random Variables: Discrete Random Variables – Continuous Random Variables - Mathematical Expectations – Moment Generating Functions- Characteristic Function. Some special distributions: Binomial Distributions – Poisson Distributions-Normal Distributions –Some More Continuous Distributions (Gamma distribution ,Chi Square distribution , Student's –t distribution, Snedecor's-F distribution and Fischer's, Z-distributions).	18	Chalk & Talk	<i>R. R. Chinnayya</i>
Jan	II	Test of significance (Large samples): Sampling – Sampling Distribution – Testing of Hypothesis – Procedure for Testing of Hypothesis for Large Sample. Test of Significance (Small samples): Test of significance based on t-distribution(t- test) – Test for significance based on F-test – Test for significance of an observed sample Correlation.	18	Chalk & Talk	<i>R. R. Chinnayya</i>

Feb	III	<p>Test based on χ^2 - distribution: χ^2 -Test- χ^2 - Test to test the goodness of fit- Test for independence of Attributes. Analysis of variance: One criterion of classification- two criteria of classification-Three criteria of Classification Latin squares.</p> <p>I Random Variables: Discrete Random Variables - Continuous Random Variables - Mathematical Expectations - Moment Generating Functions- Characteristic Function.</p>	18	Chalk & Talk	R-R. Arunja
March	IV	<p>Some special distributions: Binomial Distributions - Poisson Distributions-Normal Distributions -Some More Continuous Distributions (Gamma distribution ,Chi Square distribution , Student's -t distribution, Snedecor's-F distribution and Fischer's, Z-distributions).</p> <p>Test of significance (Large samples): Sampling - Sampling Distribution - Testing of Hypothesis - Procedure for Testing of Hypothesis for Large Sample.</p>	18	Chalk & Talk	R-R. Arunja
April	V	<p>Test of Significance (Small samples): Test of significance based on t-distribution(t- test) - Test for significance based on F-test - Test for significance of an observed sample Correlation.</p>	18	Chalk & Talk	R-R. Arunja

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III - B.SC MATHEMATICS

LESSON PLAN

2022-2023

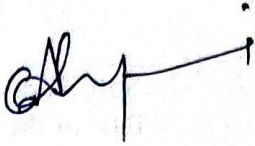
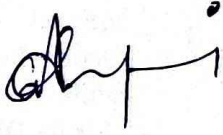
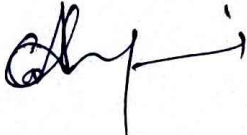
Sub. Code : 17M63


Title of the Paper: Numerical Methods

Total Hours : 90

Stream: Regular

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	Algebraic and Transcendental Equations - Introduction - Iteration Method - Bisection Method – Regula Falsi method -- Newton- Raphson Method Simultaneous Equations – Back substitution - Gauss Elimination Method – Gauss Jordan Elimination Method – Iterative methods- Gauss Jacobi Iteration Method – Gauss-Seidal Iteration Method . Finite Differences –Difference operators-Forward Differences - Backward Differences – Central difference operators - Other Difference operators.	18	Chalk & Talk	

Jan	II	<p>Interpolation - Newton's Interpolation Formula - Lagrange's Interpolation formula - Divided Differences - Newton's Divided differences formula - Inverse Interpolation.</p> <p>Numerical Differentiation and Integration - Derivatives using Newton's forward difference formula - Derivatives using Newton's backward difference formula - Derivatives using central difference formula - Maxima and minima of the interpolating polynomial - Numerical integration - Newton-Cote's quadrature formula - Trapezoidal rule - Simpson's one third rule - Simpson's three eight rule.</p>	18	Chalk & Talk	
Feb	III	<p>Numerical Solutions of Ordinary Differential Equations - Taylor's Series Method - Picard's Method - Euler's Method - Runge-Kutta Methods.</p> <p>Algebraic and Transcendental Equations - Introduction - Iteration Method - Bisection Method - Regula Falsi method -- Newton- Raphson Method Simultaneous Equations - Back substitution - Gauss Elimination Method - Gauss Jordan Elimination Method - Iterative methods- Gauss Jacobi Iteration Method - Gauss-Seidal Iteration Method .</p>	18	Chalk & Talk	
March	IV	<p>Finite Differences -Difference operators-Forward Differences - Backward Differences - Central difference operators - Other Difference operators.</p> <p>Interpolation - Newton's Interpolation Formula - Lagrange's Interpolation formula - Divided Differences - Newton's Divided differences formula - Inverse Interpolation.</p>	18	Chalk & Talk	

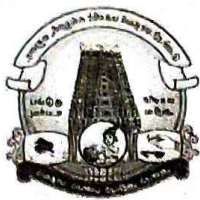
April	V	Numerical Differentiation and Integration – Derivatives using Newton's forward difference formula – Derivatives using Newton's backward difference formula - Derivatives using central difference formula – Maxima and minima of the interpolating polynomial – Numerical integration – Newton-Cote's quadrature formula - Trapezoidal rule - Simpson's one third rule - Simpson's three eight rule.	18	Chalk & Talk	
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DEPARTMENT OF MATHEMATICS
III - B.SC MATHEMATICS
LESSON PLAN
2022-2023

Sub. Code : 17AA61
Title of the Paper: Object Oriented Programming with C++
Total Hours : 60
Stream: Regular & Self-finance

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	Beginning with C++ - Tokens - Expressions and Control structures Functions in C++ - Classes and Objects.	12	Chalk & Talk	A. Maningalan
Jan	II	Constructors and Destructors - Operator overloading and data type conversions. Inheritance - Extending classes - Pointers	12	Chalk & Talk	A. Maningalan
Feb	III	Virtual functions and Polymorphism - Managing console I/O operations - working with files. Beginning with C++ - Tokens - Expressions and Control structures.	12	Chalk & Talk	A. Maningalan
March	IV	Functions in C++ - Classes and Objects. Constructors and Destructors - Operator overloading and data type conversions.	12	Chalk & Talk	A. Maningalan
April	V	Inheritance - Extending classes - Pointers	12	Chalk & Talk	A. Maningalan

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DEPARTMENT OF MATHEMATICS

III - B.SC MATHEMATICS

LESSON PLAN

2022-2023


Sub. Code : 17AA6P

Title of the Paper: C++ Practicals

Total Hours : 30

Stream: Regular

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	Program to convert the value of Fahrenheit into Celcius - program to calculate the Standard Deviation - program to display the numbers using for loop-Program to check whether the given number is a palindrome - program to calculate the factorial of a given number using recursion function	6	PPT & Lab Practice	M. Karthi
Jan	II	Program to find the sum and difference of two numbers using member function - program to display the number using constructor and destructor. Program to display the employee details - program using object as pointer for displaying students results.	6	PPT & Lab Practice	M. Karthi
Feb	III	Program to add the two complex numbers - program to find student mark details using array within a class. - program to calculate the Standard Deviation - program to display the numbers using for loop	6	PPT & Lab Practice	M. Karthi
March	IV	Program to check whether the given number is a palindrome - program to calculate the factorial of a given number using recursion function - program to find the largest value using nesting function-Program to find the sum and difference of two numbers using member function - program to display the number using constructor and destructor.	6	PPT & Lab Practice	M. Karthi
April	V	Program to display the employee details - program using object as pointer for displaying students results.	6	PPT & Lab Practice	M. Karthi


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III - B.SC MATHEMATICS

LESSON PLAN

2022-2023

Sub. Code : 17SEM61

Title of the Paper: Discrete Mathematics

Total Hours : 30

Stream: Regular

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	Introduction- TF statements - Connectives Atomic and compound statements-Well formed (statement) formulae - Truth table of a formula - Tautology- Tautological Implication and equivalence of formulae	6	Chalk & Talk	
Jan	II	Lattices-Some Properties of Lattices-New Lattices Modular and Distributive Lattices - Boolean Algebra	6	Chalk & Talk	
Feb	III	Recurrence -an introduction - Recurrence Relation Worked Examples. Introduction- TF statements - Connectives	6	Chalk & Talk	
March	IV	Atomic and compound statements- Well formed (statement) formulae - Truth table of a formula - Tautology- Tautological Implication and equivalence of formulae Lattices-Some Properties of Lattices-New Lattices	6	Chalk & Talk	
April	V	Modular and Distributive Lattices - Boolean Algebra	6	Chalk & Talk	

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III - B.SC MATHEMATICS

LESSON PLAN

2022-2023

Sub. Code : 17SEM62
Title of the Paper: Combinatorics
Total Hours : 30
Stream: Regular

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	The Rules of Sum and Product Permutations - Combinations - Permutations and Combinations with Repetitions	6	Chalk & Talk	
Jan	II	The Binomial Theorem - Pascal's Identity - Vander Monde's Identity The Multinomial Theorem - Ramsey Number	6	Chalk & Talk	
Feb	III	The Catalan Numbers - Stirling Numbers and Bell Numbers. The Rules of Sum and Product	6	Chalk & Talk	
March	IV	Permutations - Combinations - Permutations and Combinations with Repetitions The Binomial Theorem - Pascal's Identity - Vander Monde's Identity	6	Chalk & Talk	
April	V	The Multinomial Theorem - Ramsey Number	6	Chalk & Talk	

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III - B.SC MATHEMATICS

LESSON PLAN

2022-2023

Sub. Code : 174VE6

Title of the Paper: Value Education

Total Hours : 30

Stream: Regular

Month	Unit	Description Of The Syllabus	Hours Allocated	Teaching Mode & Methods	Course Teacher Signature
Dec	I	Value education –need and important –objectives types of values-Nature and concept of moral education – value education as moral education Values of home-Role of women in decision making- Parental care-care for the aged family conflicts and resolution.	6	Chalk & Talk	@. Hemath.
Jan	II	Character formation towards positive personality- Truthless, Sacrifice, sincerity, self confident-altruism, tolerance-confident honesty and courage Indian Religions- values in hinduism, Chirstianity, Buddhism, secularism and commutac, Harmony	6	Chalk & Talk	@. Hemath.
Feb	III	Human Rights-Fundamental Rights , Human Rights act 1993 (amended 2006) Consumer Production act 1986, Right to information act 2005 prodective laws for women – dowry prohibition act 1961.Domestic violence act2005 Value education –need and important –objectives types of values-Nature and concept of moral education – value education as moral education	6	Chalk & Talk	@. Hemath.
March	IV	Values of home-Role of women in decision making- Parental care-care for the aged family conflicts and resolution.Character formation towards positive personality- Truthless, Sacrifice, sincerity, self confident-altruism, tolerance-confident honesty and courage	6	Chalk & Talk	@. Hemath.
April	V	Indian Religions- values in hinduism, Chirstianity, Buddhism, secularism and commutac, Harmony	6	Chalk & Talk	@. Hemath.


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