TEACHING PLAN 2025-26 (ODD SEMESTER)

Name:. GEETA DEVI **Department:.** Sanskrit **Class:.** B.A. Pass. 1ST[h] Sem. **Sub:-** mdc

Month	1st Week	2nd Week	3rd Week	4th Week
JULY	Admission	Admission	Students Introduction	MDC विषय परचर्चा एवं महत्त्व
August	सौन्दर्य-शास्त्र स्वरूप, परिभाषा स्वरूप	सौन्दर्य शास्त्र का महत्त्व एवं घटक १म, कप, वच, हृदय	सौन्दर्य के पर्यायवाची शब्दों की चर्चा, लावण्य चारुता, कान्ति, माधुर्य	Revision TEST
September	सौन्दयू अनुभव की प्रक्रिया Essay writting	रस के घटक मामय की भावनाएँ और संवेदनाए	अनुभाव सान्त्रिक भाव, रसिक, भाव स्थायी	Revision, ASSIGNMENT,TEST
October	सौन्दर्य तत्त्व कला - वास्तुकला मूर्ति कला चित्रकला	अभिव्यक्ति का माध्यम एवं संगीत Quiz, Debate	काव्य और नाटक DIWALI BREAK	काव्य और नाटक Assignment
November	भारतीय सौन्दर्य शास्त्र के प्रमुख विचारक,	भरत, भामह वामन आनन्दवर्धन, राजशेखर मम्मर	अभिनवगुप्त विश्वनाथ , रुपगोस्वामी, जमा नगन्नाथ	Revision GROUP DISCUSSION

TEACHING PLAN 2025-26 (ODD SEMESTER)

Name:. GEETA DEVI **Department:.** Sanskrit **Class:.** B.A. Pass. 1ST[h] Sem. **Sub:-** SEC

Month	1st Week	2nd Week	3rd Week	4th Week
JULY	Admission	Admission	Students Introduction	यज्ञ का अर्थ
August	यज्ञ का प्रयोजन	यज्ञ का महत्व	यनीय साहित्य कल्प	Revision TEST
September	ब्रह्म यज्ञ	ब्रह्म मुझे यस यत	ब्रह्मयज्ञ का विधि	Revision, देवयज्ञ
October	देवभूत्र का स्वरूप	देवयज्ञ श्री विधि	बलिवैश्वदेव, Revision	स्वरुप एव विधि
November	पितृसन कध स्वरूप विधि	अती यज्ञ स्वरुप एव विधि	DIWALI BREAK	Revision TEST

Teacher Signature

TEACHING PLAN 2025-26 (ODD SEMESTER)

Name:. GEETA DEVI **Department:.** Sanskrit **Class:.** B.A. Pass. 1ST[h] Sem. **Sub:-** DSC

Month	1st Week	2nd Week	3rd Week	4th Week
JULY	Admission	Admission	Students Introduction	संधि परिचय
August	हल सन्धि, विसर्ग संधि	संस्कृत व्यवहार, साहस्त्री 1-2	संस्कृत व्यवहार, साहस्त्री-3,4,5	संस्कृत व्यवहार, साहस्त्री-6,7,8
September	हितोपदेश कभामुख	काक, मूषिका कथा शब्दरूप-राम कृषि, भानू	काक, मूषिका कथा शब्दरूप-पितृ, मति लता	शब्द रूप मति धेनू,Revision, Debate
October	मृग -कूर्म कथा शब्द रूप मृत फल	मृग -कूर्म कथा शब्द रूप-फल	Diwali Break	मृग कर्म कथा, Revision
November	पालि प्राकृत तथा अपभ्रंश भाषाए	आधुनिकभारतीय भाषाएँ	संस्कृत भाषाओं को प्रदाय	Revision TEST

Teacher Signature

TEACHING PLAN 2025-26 (ODD SEMESTER)

Name:. GEETA DEVI **Department:.** Sanskrit **Class:.** B.A. Pass. 1ST[h] Sem. **Sub:-** AEC

Month	1st Week	2nd Week	3rd Week	4th Week
JULY	Admission	Admission	Students Introduction	भाषा विज्ञान का सामान्य परिचय
August	भाषा का महत्व	भाषा का उद्भव एवं विकास	भाषा परिवार	Revision, Test
September	भारतीय परिवार , सामान्य परिचय	भारतीय-भाषा-परिवार वर्णन	भारत-ईरानी शाखा Role Play	Revision, Debate
October	वैदिक एवं लौकिक संस्कृत सामान्य परिचय, Speech |	वैदिक संस्कृत उसका साहित्य	Diwali Break	लौकिक संस्कृत उसका साहित्य
November	पालि प्राकृत तथा अपभ्रंश भाषाए	आधुनिकभारतीय भाषाएँ	संस्कृत भाषाओं को प्रदाय	Revision, Test

Teacher Signature

TEACHING PLAN 2025-26 (ODD SEMESTER)

Name:. GEETA DEVI **Department:.** Sanskrit **Class:.** B.A. Pass. 5th Sem. **Sub:-** SKT Elective

Month	1st Week	2nd Week	3rd Week	4th Week
JULY	Admission	Admission	Unit – 1 सं. वाग्व्यवहार पाठ 1-4	Unit – 1 सं. वाग्व्यवहार पाठ 5- 8
August	Unit – 4 स्त्री प्रत्यय	Unit – 4 स्त्री प्रत्यय	Unit – 3 सं.सा. का इतिहास संहिता	Unit – 3 सं.सा. का इतिहास ब्राह्मण ग्रंथ
September	Unit – 3 सं.सा. का इतिहास आरण्यक	Unit – 3 सं.सा. का इतिहास वेदाङ्ग	Unit – 2 अभिज्ञानशाकुन्तल अंक 1	Unit – 2 अभिज्ञानशाकुन्तल अंक 1- 2
October	Unit – 2 अभिज्ञानशाकुन्तल अंक 2	Unit – 2 अभिज्ञानशाकुन्तल अंक 3	DIWALI BREAK	Unit – 2 अभिज्ञानशाकुन्तल अंक 4
November	पुनरावृत्ति Unit – 1	पुनरावृत्ति Unit – 4	पुनरावृत्ति Unit - 3	पुनरावृत्ति Unit – 2

TEACHING PLAN 2025-26 (ODD SEMESTER)

Name:. Geeta Devi **Department:.** Sanskrit **Class:.** B.A. Pass. 5th Sem. **Sub:-** SKT Compulsory

Month	1st Week	2nd Week	3rd Week	4th Week
JULY	Admission	Admission	Unit – 4 कारक	Unit – 4 उपपद विभक्ति
August	Unit – 3 सं.सा. का इतिहास कालिदास	Unit – 3 सं.सा. का इतिहास अश्वघोष	Unit – 3 सं.सा. का इतिहास भारवि	Unit – 3 सं.सा. का इतिहास भर्तृहरि
September	Unit – 2 नीतिशतक	Unit – 2 नीतिशतक	Unit – 2 नीतिशतक	Unit – 2 नीतिशतक
October	Unit – 1 शिवराजविजय	Unit – 1 शिवराजविजय	DIWALI BREAK	Unit – 1 शिवराजविजय
November	पुनरावृत्ति Unit – 4	पुनरावृत्ति Unit – 3	पुनरावृत्ति Unit – 2	पुनरावृत्ति Unit - 1

Teacher Signature

TEACHING PLAN 2025-26 (ODD SEMESTER
(JULY 2025 to NOVEMBER 2025)

Name- Giri Raj **Department-** Sanskrit **Class- B.A 2nd yr (**3rd Sem) Sub:- DSC Sanskrit

Month	1st Week	2nd Week	3rd Week	4th Week
July	**Admission**	**Admission**	णिजन्त व सन्नन्त धातुरूप	तद्धित प्रत्यय
August	तत्पुरुष समास	अव्ययीभाव समास	अनुवाद एवं कारकों का प्रयोग	अनुवाद एवं लकार एवं प्रत्ययों का प्रयोग
September	संस्कृत व्यवहारसाहस्री 17-18	संस्कृत व्यवहारसाहस्री 11-20	संस्कृत व्यवहारसाहस्री 21	संस्कृत व्यवहारसाहस्री 15-16
October	रामायण प्रथम सर्ग 1-20	रामायण प्रथम सर्ग 21-40	**SEMESTER BREAK**	रामायण प्रथम सर्ग 41-60
November	रामायण प्रथम सर्ग 61-80	रामायण प्रथम सर्ग 81-100	रामायण एवं समास पुनरावृत्ति	अनुवाद एवं व्यावहार साहस्री पुनरावृत्ति

Signature

TEACHING PLAN 2025-26 (ODD SEMESTER)
(July 2025 to November 2025)

Name- Giri Raj **Department-** Sanskrit **Class- B.A 1st yr (**1st Sem) Sub:- MIC Sanskrit

Month	1st Week	2nd Week	3rd Week	4th Week
July	**Admission**	**Admission**	यण्, दीर्घ, गुण, वृद्धि स्वर सन्धि	पररूप, पूर्वरूप आदि स्वर सन्धि
August	बालक, कवि, साधु,जल के शब्दरूप	मातृ और पितृ, सर्व के शब्दरूप	पद्य भाग 1-3	पद्य भाग 4-6
September	भू धातुरूप पांचो लकारों में	वद और गम धातु पांचो लकारों में	पठ् और स्था धातु पांचो लकारों में	गद्य भाग 1-3
October	गद्यभाग 4-6	गद्यभाग 6-8	**दीपावली पर्व और सामिसत्र अवकाश**	गद्यभाग 9-10
November	अनुवाद में लकारों का प्रयोग	अनुवाद में कारकों का प्रयोग	धातु,शब्दरूप पुनरावृत्ति	गद्य,पद्य भाग पुनरावृत्ति

Signature

TEACHING PLAN 2025-26 (ODD SEMESTER)
(July 2025 to November 2025)

Name- Giri Raj **Department-** Sanskrit **Class- B.Sc 1st yr (**1st Sem) Sub:- AEC Sanskrit

Month	1st Week	2nd Week	3rd Week	4th Week
July	**Admission**	**Admission**	भाषा की परिभाषा एवं भाषा का महत्व	भाषा का उद्भव
August	भाषा का विकास	भाषा परिवार	भारोपीय भाषा परिवार	भारत–ईरानी शाखा
September	लौकिक संस्कृत एवं वैदिक संस्कृत	लौकिक संस्कृत तथा उसका साहित्य	वैदिक संस्कृत तथा उसका साहित्य	पालि भाषा
October	पाकृत भाषा	अपभ्रंश भाषाएं	सामिसत्र अवकाश	आधुनिक भारतीय भाषाएं
November	आधुनिक भारतीय भाषाएं	संस्कृत का आधुनिक भारतीय भाषाओं को प्रदाय	संस्कृत का आधुनिक भारतीय भाषाओं को प्रदाय	पुनरावृत्ति एवं चर्चा

Signature

TEACHING PLAN 2025-26 (ODD SEMESTER)
(July 2025 to November 2025)

Name: Giri Raj Department: Sanskrit Class: B.A 2nd yr (3rd Sem)

Sub: MDC Sanskrit (भारतीय दर्शन की मूल अवधारणाएं) Subject Code- 25SKTX03MD01

Month	1st Week	2nd Week	3rd Week	4th Week
July	**Admission**	**Admission**	Unit -1 कठोपनिषद् प्रथम वल्ली 1-10	Unit-1 कठोपनिषद् प्रथम वल्ली 11-20
August	Unit-1 कठोपनिषद् प्रथम वल्ली 21-29	Unit-2 कठोपनिषद् द्वितीय वल्ली 1-8	Unit-2 कठोपनिषद् द्वितीय वल्ली 9-16	Unit-2 कठोपनिषद् द्वितीय वल्ली 17-25
September	Unit-3 तर्क संग्रह (द्रव्य)	Unit-3 तर्क संग्रह (गुण)	Unit-3 तर्क संग्रह (कर्म, सामान्य, विशेष)	Unit-३ तर्क संग्रह (समवाय, अभाव)
October	Unit-4 तर्क संग्रह (पृथ्वी)	Unit-4 तर्क संग्रह (जल)	सामिसत्र अवकाश	Unit-4 तर्क संग्रह (तेज)
November	Unit-4 तर्क संग्रह (वायु आकाश)	Unit-4 तर्क संग्रह (काल, दिक्)	Unit-4 तर्क संग्रह (आत्मा, मन)	पुनरावृत्ति

हस्ताक्षर

TEACHING PLAN 2025-26 (ODD SEMESTER)
(July 2025 to November 2025)

Name: Giri Raj Department: Sanskrit Class: B.A 2nd yr (3rd Sem) Sub: MIC Sanskrit

Month	1st Week	2nd Week	3rd Week	4th Week
July	**Admission**	**Admission**	Unit – 3 णिजन्त प्रत्यय	Unit – 3 कृदन्त प्रत्यय
August	Unit – 3 कृदन्त प्रत्यय	Unit – 4 अव्ययीभाव समास	Unit – 4 अव्ययीभाव समास	Unit – 4 द्वन्द्व समास
September	Unit – 4 तत्पुरुष समास	Unit – 4 तत्पुरुष समास	Unit – 5 अनुवाद बहुव्रीही समास	Unit – 5 अनुवाद बहुव्रीहि समास
October	Unit – 1 चारुदत्त नाटक अंक 1-2	Unit – 1 चारुदत्त नाटक अंक 2	सामिसत्र अवकाश	Unit – 2 चारुदत्त नाटक अंक 2-3
November	Unit – 2 चारुदत्त नाटक अंक 3	Unit – 2 चारुदत्त नाटक अंक 3-4	Unit – 2 चारुदत्त नाटक अंक 4	Unit – 1-4 पुनरावृत्ति

TEACHING PLAN 2025-26 (ODD SEMESTER)
(July 2025 to November 2025)

Name: Giri Raj Department: Sanskrit Class: B.A 2nd yr (3rd Sem)

Sub: SEC Sanskrit (पर्व परिचय) Subject Code- 25SKT403SE01

Month	1st Week	2nd Week	3rd Week	4th Week
July	**Admission**	**Admission**	Unit-1 वैदिक पर्व का अर्थ एवं परिचय	Unit-1 वैदिक पर्व का महत्व एवं प्रयोजन
August	Unit-1 वैदिक पर्व के प्रकार	Unit-2 सांस्कृतिक पर्व नवसंवत्सरेष्टि	Unit-2 सांस्कृतिक पर्व श्रावणी	Unit-2 सांस्कृतिक पर्व विजयदशमी
September	Unit-2 सांस्कृतिक पर्व शारदीय नवसस्येष्टी (दीपावली)	Unit-2 सांस्कृतिक पर्व वासन्ती नवसस्येष्टी (होली)	Unit-3 सामाजिक पर्व राम नवमी	Unit-3 सामाजिक पर्व हरी तृतीया (तीज)
October	Unit-3 सामाजिक पर्व कृष्णजन्माष्टमी	Unit-3 सामाजिक पर्व विविध जयन्ति	सामिसत्र अवकाश	Unit-4 राष्ट्रीय पर्व गणतन्त्र दिवस
November	Unit-4 राष्ट्रीय पर्व स्वतन्त्रता दिवस	Unit-4 राष्ट्रीय पर्व शहीदी दिवस	Unit-4 राष्ट्रीय पर्व अन्य विशिष्ट दिवस	Unit-4 राष्ट्रीय पर्व अन्य विशिष्ट दिवस

हस्ताक्षर

TEACHING PLAN 2025-26 (ODD SEMESTER)

Department: Mathematics

Name :- Jyotika dudeja, Savita

Sub:- Function and Algebra (B.sc.I year)

Month	1st Week	2nd Week	3rd Week	4th Week	5th Week
July			Relation , Functions along with domain and Range, Composition of function	Invertibility and inverse of functions, One –to- one correspondence and the cardinality of a set.	Relation between the roots and coefficients of general polynomial equation in one variable.
August	Solutions of polynomial equations having conditions on roots	Common roots and multiple roots.	Transformation of equations.	Nature of the roots of an equation	Descarte Rule of Sign.
September	Solutions of cubic equations (Cardon's method). Biquadratic equations and their solutions.	Solutions of cubic equations (Cardon's method). Biquadratic equations and their solutions.	Matrix and its Types.	. Matrix and its Types.	Rank of a Matrix and its Applications
October	Row rank, column rank	Elementary operations on matrices	Normal form, PAQ Form	Linera independence and dependence of rows and columns of matrices	Theorem on consistency of a system of linear rquations.

November	Cayley Hamilton Theorem , Minimal polynomial of a Matrix	Characteristics equation of a matrix, To find the inverse of a Matrix			

Name: POOJA TANWAR , MAMTA
Subject: Ordinary Differential Equations (MAJOR)
Class: B.Sc. Physical Science

Month/Week	1st	2nd	3rd	4th	5th
JULY			Geometrical meaning of a differential equation, Exact differential equation	Integrating Factors, First order higher degree equations solvable for x,y,p.	Lagrange and Clairaut's Equation, Equation reducible to Clairaut's form, Singular form
AUGUST		Orthogonal Trajectories: Cartesian and Polar coordinates, Self-Orthogonal Family of curves	Linear ordinary differential equations with constant coefficients	Homogeneous linear ordinary differential equations	Equations reducible to Homogeneous
SEPTEMBER	Linear differential equations of second order : Reduction	Transformation of the equation by changing the dependent/ independent	Solution by operators of non-homogeneous linear	Reduction of order of a differential equation	Method of variations of parameters

	to normal form	variable	differential equations		
OCTOBER	Method of undetermined coefficients	Ordinary simultaneous differential equations	Solution of simultaneous differential equation involving operators x(d/dx) or t(d/dt), Diwali Break	Diwali Break	Simultaneous equation of the form dx/P= dy/Q =dz//R
NOVEMBER		Total differential equation, Condition for P dx + Q dy + R dz = 0 to be exact	General method of solving P dx + Q dy + R dz = 0 by taking one variable constant	Method of auxiliary equations	

Name :- Jyotika Dudeja
Sub:- GROUPS AND RING
CLASS : B.Sc Physical Science (III YEAR)

Month	1st Week	2nd Week	3rd Week	4th Week	5th Week
July				Definition of a group ,Subgroups and Subgroup criteria, Generation of	Cosets, Left and right cosets, Index of a sub-group Coset decomposition,

				groups, cyclic groups,	Largrage's theorem and its consequences
August	Cosets, Left and right cosets, Index of a sub-group Coset decomposition, Largrage's theorem and its consequences	Normal subgroups, Quotient groups,	Normal subgroups, Quotient groups,	Homoomorphisms, isomophisms, automorphisms and inner automorphisms of a group.	Homoomorphisms, isomophisms, automorphisms and inner automorphisms of a group.
September	Automorphisms of cyclic groups, Permutations groups. Even and odd permutations. Alternating Groups	Cayley's theorem, Center of a group and derived group of a group	Introduction to rings, subrings, integral domains and fields	Introduction to rings, subrings, integral domains and fields	Characteristics of a ring. Ring homomorphisms, ideals (principle, prime and Maximal) and Quotient rings, Field of quotients of an integral domain.
October	Characteristics of a ring. Ring homomorphisms, ideals (principle, prime and Maximal) and Quotient rings, Field of quotients of an integral	Euclidean rings, Polynomial rings, Polynomials over the rational field	Euclidean rings, Polynomial rings, Polynomials over the rational field	The Eisenstein's criterion, Polynomial rings over commutative rings	The Eisenstein's criterion, Polynomial rings over commutative rings

	domain.				
November	Unique factorization domain	Unique factorization domain			

Name :- Savita , Sandhya Mangla
Sub:- REAL ANALYSIS(BSC III year)

Month	1st Week	2nd Week	3rd Week	4th Week	5th Week
July			Riemann integral, Integrabililty of continuous and monotonic functions	Riemann integral, Integrabililty of continuous and monotonic functions	The Fundamental theorem of integral calculus.
August	The Fundamental theorem of integral calculus. Mean value theorems of integral calculus.	Improper integrals and their convergence, Comparison tests, Abel's and Dirichlet's tests,	Improper integrals and their convergence, Comparison tests, Abel's and Dirichlet's tests,	Frullani's integral, Integral as a function of a parameter	Continuity, Differentiability and integrability of an integral of a function of a parameter.
September	Continuity, Differentiability and integrability of an integral of a function of a parameter.	Definition and examples of metric spaces, neighborhoods	limit points, interior points, open and closed sets, closure and interior, boundary points	subspace of a metric space, equivalent metrics, Cauchy sequences, completeness	subspace of a metric space, equivalent metrics, Cauchy sequences, completeness

October	Cantor's intersection theorem, Baire's category theorem, contraction Principle	Cantor's intersection theorem, Baire's category theorem, contraction Principle	Continuous functions, uniform continuity, compactness for metric spaces	Continuous functions, uniform continuity, compactness for metric spaces	sequential compactness, Bolzano-Weierstrass property, total boundedness, finite intersection property
November	sequential compactness, Bolzano-Weierstrass property, total boundedness, finite intersection property	continuity in relation with compactness, connectedness , components, continuity in relation with connectedness			REVISION

Name :- Sandhya Mangla

Sub:- NUMERICAL ANALYSIS (B.Sc III Year)

Month	**1st Week**	**2nd Week**	**3rd Week**	**4th Week**	**5th Week**
July			Finite Differences operators.	Finding the missing terms and effect of error in a difference tabular values,	Interpolation with equal intervals: Newton's forward

August	Newton's backward interpolation formulae.	Interpolation with unequal intervals: Newton's divided difference,	Lagrange's Interpolation formulae, Hermite Formula.	Central Differences: Gauss forward interpolation formula	Gauss's backward interpolation formula
September	Sterling, Bessel Formula.	Probability distribution of random variables, Binomial distribution, Poisson's distribution	Normal distribution: Mean, Variance and Fitting.	Numerical Differentiation: Derivative of a function using interpolation formulae as studied in Sections –I & II.	Eigen Value Problems: Power method
October	Jacobi's method, Given's method	House-Holder's method, QR method, Lanczos method	Numerical Integration: Newton-Cote's Quadrature formula	Trapezoidal rule, Simpson's one third rule , Simpson's three-eighth rule	Chebychev formula, Gauss Quadrature formula, Numerical solution of ordinary differential equations
November	Single step methods-Picard's method, Taylor's series method	Euler's method, Runge-Kutta Methods			

Name: POOJA TANWAR, SANDHYA MANGLA
Subject: Introductory Mathematics (MDC).
Semester: First

Month/ Week	1st	2nd	3rd	4th	5th

JULY			Numbers	Numbers	Revision of Numbers
AUGUST	HCF of numbers	LCM of numbers	Fractions	Decimals	Simplification
SEPTEMBER	Square Roots	Cube Roots	Surds and Indices	Problem on Numbers	Average
OCTOBER	Percentage	Profit And Loss	Ratio and Proportion, Diwali Break	Diwali Break , Problems on Ages	Partnership, Time and Work
NOVEMBER		Time and Distance, Problems on Train	Alligation (Mixture Problem)	Calendar and Clock	

Name: JYOTIKA DUDEJA, SANDHYA MANGLA
Subject: APPLICABLE MATHEMATICS (MDC).
Semester: THIRD SEM

Month/ Week	1st	2nd	3rd	4th	5th
JULY			Theory of Sets: Meaning, elements, types, presentation and equality of Sets,	Theory of Sets: Meaning, elements, types, presentation and equality of Sets,	Union, Intersection, Complement nd Difference of Sets,
AUGUST	Venn Diagram, Cartesian Product of two Sets,	Applications of Set Theory.	Matrices and Determinants: Definition of a Matrix	Types of Matrices, Algebra of Matrices;;	Properties of determinants;
SEPTEMBER	Calculation of values of Determinants upto third order.	Adjoint of a Matrix, elementary row and column operations;.	Finding inverse matrix through adjoint;	Solution of a system of Linear equations having unique Solution and involving not more than three variables	Solution of a system of Linear equations having unique Solution and involving not more than three variables
OCTOBER	Compound Interest: Certain different types of interest rate;	Compound Interest: Certain different types of interest rate;	Compound Interest: Certain different types of interest rate;	Concept of present value and amount of a sum.	Concept of present value and amount of a sum.
NOVEMBER	Annuities: Types of annuities; Present value and amount of an annuity, including the case of continuous compounding.	Annuities: Types of annuities; Present value and amount of an annuity, including the case of continuous compounding.			

Name: POOJA TANWAR
Subject: Programming in C and Numerical Methods (SEC)
Class: B.Sc. Physical Science
Semester: First

Month/Week	1st	2nd	3rd	4th	5th
JULY			Computers: A General Introduction, Introduction to C	Data Types, Operators and Expression, Decision Control Structures	
AUGUST	Loops, Functions	The C Preprocessor , Array	Puppetting of Strings	Structures and Union	Pointers, Files in C
SEPTEMBER	Solution Of Algebraic and Transcendental Equations	Bolzano or Bisection Method	Regula Falsi or False Position Method	Secant Method	
OCTOBER	Newton Raphson Method	Simultaneous Linear Algebraic Equations, Gauss Elimination Method	Diwali Break	Gauss - Jordan Method, LU Decomposition Method	
NOVEMBER	Cholesky Method or Square Root Method	Jacobi's Method	Relaxation Method		

Name: Sandhya Mangla
Subject: Operational Research Technique (SEC)
Class: B.Sc. Physical Science
Semester: Third

Month / week	Ist	Second	Third	Fourth	Fifth
July			Introduction to Operations Research: Models, Methodology, and Classification	Linear Programming Problems (LPP): Introduction and Formulation	Graphical Method of Solving LPP with Illustrations
August	Standard Form of LPP and Canonical Form	Simplex Method: Concepts, Basic Feasible Solutions, and Algorithm	Simplex Method: Table Form and Applications	Simplex Method: Table Form and Applications	Two-Phase Simplex Method
September	Big-M Method	Big-M Method	Duality in Linear Programming: Concepts and Applications	Duality in Linear Programming: Concepts and Applications	Transportation Problem – Introduction and Mathematical Formulation
October	Transportation Problem – Methods to Find Initial Basic Feasible Solution	Transportation Problem – MODI Method and Degeneracy Cases	Unbalanced Transportation Problems and Applications	Assignment Problem – Introduction and Formulation	Hungarian Method for Solving Assignment Problems
November	Applications of Assignment Problems in Business and Management	Comprehensive Practice on LPP, Transportation, and Assignment Problems			

Name: POOJA TANWAR
Subject: Mathematical Foundation of Computer Science.
Semester: First
Class- BCA

Month/ Week	1st	2nd	3rd	4th	5th
JULY			Set, Set operation, Properties of Set operations	Subset, Venn Diagrams, Cartesian Product	Relation, Properties of Relations, Types of Relations
AUGUST	Equivalence Relation, closure of Relations	Warshell' s Algorithm, Functions	Properties of Functions(Domain, Range)	Composition of functions, Surjective	Injective, Polynomial, Ceiling, Floor and Bijective Functions
SEPTEMBER	Counting and Recurrence Relation	Permutation, Combinations	Binomail Coefficients and Theorem	Recurrence Relations with Examples, the tower of Hanoi problem	Solving Recurrence relation with constant coefficients using characteristic equation root

					method.
OCTOBER	Basic terminologies of graphs, connected and disconnected graphs.	Subgraphs , paths and cycles	Complete graph, digraphs ,weighted graphs	Trees, properties of trees	Types of matrices, determinat of a matrix, symmetric and skew- symmetric matrices
NOVEMBER	Orthogonal matrix,Rank of a matrix, inverse of a matrix	Application of matrices to solve system of linear equation, Cayley – Hamilton Theorem			

Name: MAMTA
Subject: Basic Mathematics.
Semester: First
Class- Minor

Month / week	First	Second	Third	Fourth	Fifth
July			Introduction to Course and Overview of Calculus Concepts	Functions and Variables: Introduction to Differential Calculus	Homogeneity of Functions and Euler's Theorem
August	Partial Derivatives up to Second Order and Applications	Differentiation of Implicit Functions; Maxima and Minima	Integration as Anti-derivative Process, Standard Forms	Methods of Integration: Substitution and Partial Fractions	Definite Integration and Applications (Areas, Surplus Problems
September	Nature of Commodities	Matrices: Definition, Types, and Operations	Matrix Algebra: Addition,	Determinants: Properties and	Determinants: Properties and

	Learning Curve; Leontief Input-Output Model		Subtraction, Multiplication	Calculation up to Third Order	Calculation up to Third Order
October	Adjoint and Inverse of a Matrix; Cramer's Rule	Adjoint and Inverse of a Matrix; Cramer's Rule	System of Linear Equations using Matrices	System of Linear Equations using Matrices	REVISION
NOVEMBER	Revision and Discussion of Previous Papers	Final Review and Preparation for End Term Examination			

NAME : MAMTA
SUBJECT: BUSINESS MATHEMATICS.
SEMESTER: THIRD SEM
CLASS- MINOR

MONTH/ WEEK	FIRST	SECOND	THIRD	FOURTH	FIFTH
JULY			Introduction to Business Mathematics and Formulation of LPP	Graphical Method of Solving Linear Programming Problems	Graphical Method of Solving Linear Programming Problems
AUGUST	Applications of LPP in Business and Economics	Simplex Method: Concept, Algorithm, and Table Form	Simplex Method: Concept, Algorithm, and Table Form	Solving LPPs up to Three Variables using Simplex Method	Mixed Constraints and Duality Concept in Linear Programming
SEPTEMBER	Mixed Constraints and Duality	Transportation Problem –	Transportation Problem –	Transportation Problem – Initial	Transportation Problem – Optimal

	Concept in Linear Programming	Introduction and Formulation	Introduction and Formulation	Basic Feasible Solution Methods	Solution and Degeneracy
OCTOBER	Compound Interest – Concept and Different Interest Rates	Compound Interest – Concept and Different Interest Rates	Present Value and Amount of a Sum under Simple and Compound Interest	Applications of Compound Interest in Business Situations	Annuities – Introduction, Types, and Uses
NOVEMBER	Present Value and Amount of an Annuity, Continuous Compounding	Valuation of Simple Loans and Debentures, Problems Related to Sinking Funds and Financial Applications			Present Value and Amount of an Annuity, Continuous Compounding

Name: Mamta
Subject: Operational Research (MINOR)
Semester: Third

Month / week	Ist	Second	Third	Fourth	Fifth
July			Introduction to Operations Research: Models, Methodology, and	Linear Programming Problems (LPP): Introduction and	Graphical Method of Solving LPP with Illustrations

			Classification	Formulation	
August	Standard Form of LPP and Canonical Form	Simplex Method: Concepts, Basic Feasible Solutions, and Algorithm	Simplex Method: Table Form and Applications	Simplex Method: Table Form and Applications	Two-Phase Simplex Method
September	Big-M Method	Big-M Method	Duality in Linear Programming: Concepts and Applications	Duality in Linear Programming: Concepts and Applications	Transportation Problem – Introduction and Mathematical Formulation
October	Transportation Problem – Methods to Find Initial Basic Feasible Solution	Transportation Problem – MODI Method and Degeneracy Cases	Unbalanced Transportation Problems and Applications	Assignment Problem – Introduction and Formulation	Hungarian Method for Solving Assignment Problems
November	Applications of Assignment Problems in Business and Management	Comprehensive Practice on LPP, Transportation, and Assignment Problems			