

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms Shalini

Class and Section:-B.A. I

Subject:- Number Theory and Trigonometry

Week	Date	Topics
1	1-Jan-18	Holidays
	2-Jan-18	Holidays
	3-Jan-18	Holidays
	4-Jan-18	Holidays
	5-Jan-18	Holidays
	6-Jan-18	Few results and theorem on divisibility
	7-Jan-18	Sunday
2	8-Jan-18	Few question based on divisibility and algorithm, GCD and LCM
	9-Jan-18	Introduction to different types of number, Euclid's first and second theorem
	10-Jan-18	Fundamental theorem of arithmetic
	11-Jan-18	Congruences and theorem based on congruences
	12-Jan-18	Congruences and theorem based on congruences-cont.
	13-Jan-18	Congruences and theorem based on congruences-cont.
	14-Jan-18	Sunday
3	15-Jan-18	Linear congruences and theorems
	16-Jan-18	Linear congruences and theorems-cont.
	17-Jan-18	Linear congruences and theorems-cont.
	18-Jan-18	Linear Diophantine equations
	19-Jan-18	Linear Diophantine equations-cont.
	20-Jan-18	Fermat's theorem and problems
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	Wilson's theorem and problems
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	Chinese remainder theorems and problems
	26-Jan-18	Republic Day
	27-Jan-18	Problems from students and assign different topics of assignments
	28-Jan-18	Sunday
5	29-Jan-18	Test
	30-Jan-18	euler's function and some theorems
	31-Jan-18	Guru Ravidas Jayanti

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms. Shalini

Class and Section:- **B.A. I**

Subject:- Number Theory and Trigonometry

Week	Date	Topics
1	1-Feb-18	Residue and least residue, Complete and reduced residue system
	2-Feb-18	Problems on Complete and reduced residue system
	3-Feb-18	Euler's generalization of Fermat's theorem, De Polignac's formula
	4-Feb-18	Sunday
2	5-Feb-18	functions $d(n)$ and $\sigma(n)$ and questions
	6-Feb-18	Moebius function and Moebius inversion formula and questions
	7-Feb-18	Quadratic congruences
	8-Feb-18	Quadratic congruences-cont.
	9-Feb-18	Legendre symbol and properties
	10-Feb-18	Maharshi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday
3	12-Feb-18	Lemma of Gauss and problems
	13-Feb-18	Maha Shivratri
	14-Feb-18	Gauss reciprocity law and question
	15-Feb-18	revision
	16-Feb-18	De Moivre's Theorem and questions
	17-Feb-18	De Moivre's Theorem and questions-cont.
	18-Feb-18	Sunday
4	19-Feb-18	De Moivre's Theorem and questions-cont.
	20-Feb-18	Roots of complex number, Solution of equation
	21-Feb-18	Expansion of $\tan n\theta$
	22-Feb-18	Formation of equations
	23-Feb-18	Expansion of $\sin n\theta$ and $\cos n\theta$
	24-Feb-18	Exponential function of a complex variable and its properties
	25-Feb-18	Sunday
5	26-Feb-18	Circular function of complex variable
	27-Feb-18	Circular function of complex variable-cont
	28-Feb-18	Vacations-II (Holi Vacation)

Lesson Plan

Name of the Assistant/ Associate Professor: - Ms. Shalini

Class and Section:- **B.A. I**

Subject:- Number Theory and Trigonometry

Week	Date	Topics
1	1-Mar-18	Vacations-II (Holi vacation)
	2-Mar-18	Vacations-II (Holi vacation)
	3-Mar-18	Vacations-II (Holi vacation)
	4-Mar-18	Vacations-II (Holi vacation)
2	5-Mar-18	Periodicity of circular function, Trigonometric formulas for complex quantities
	6-Mar-18	Questions based on circular function
	7-Mar-18	Questions based on circular function-cont
	8-Mar-18	Hyperbolic function and its periodicity
	9-Mar-18	Revision and allotment of topics for assignment
	10-Mar-18	test
	11-Mar-18	Sunday
3	12-Mar-18	Relation between hyperbolic and circular functions
	13-Mar-18	Questions based on hyperbolic function
	14-Mar-18	Separation into real and imaginary parts of circular and hyperbolic functions
	15-Mar-18	Separation into real and imaginary parts of circular and hyperbolic functions-cont.
	16-Mar-18	Logarithm of a complex quantities and its law
	17-Mar-18	Logarithm of a complex quantities and its law-cont.
	18-Mar-18	Sunday
4	19-Mar-18	General log and exponential function
	20-Mar-18	General log and exponential function-cont.
	21-Mar-18	Inverse circular function and questions
	22-Mar-18	Inverse circular function and questions-cont.
	23-Mar-18	Shaheedi Diwas of Bhagat Singh, Rajguru & Sukhdev
	24-Mar-18	Problems from students
	25-Mar-18	Sunday/ Ram Navami
5	26-Mar-18	test
	27-Mar-18	Inverse circular function and questions
	28-Mar-18	Inverse circular function and questions-cont.
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	General values and principal value
	31-Mar-18	General values and principal value-cont

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms. Shalini

Class and Section:- . **B.A. I**

Subject:- Number Theory and Trigonometry

Week	Date	Topics
1	1-Apr-18	Sunday
	2-Apr-18	Inverse hyperbolic function and its General values and principal value
	3-Apr-18	Inverse hyperbolic function and its General values and principal value-cont.
	4-Apr-18	Numerical problems
	5-Apr-18	Series of sines and cosines of angles which are in A.P.
	6-Apr-18	Method of differences
	7-Apr-18	C+ i S Method of summation
	8-Apr-18	Sunday
2	9-Apr-18	Problems of previous chapter
	10-Apr-18	Discussion of assignments
	11-Apr-18	Revision of unit 1
	12-Apr-18	Revision of unit 1-cont.
	13-Apr-18	Test of unit 1
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi
	15-Apr-18	Sunday
3	16-Apr-18	Revision of unit 2
	17-Apr-18	Revision of unit 2
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	Test of unit 2
	20-Apr-18	Revision of unit 3
	21-Apr-18	Revision of unit 3-cont.
	22-Apr-18	Sunday
4	23-Apr-18	Test of unit 3
	24-Apr-18	Revision of unit 4
	25-Apr-18	Revision of unit 4 –con t.
	26-Apr-18	Test of unit 4
	27-Apr-18	Solution of Previous year question paper
	28-Apr-18	Solution of Previous year question paper-cont.

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms. Shalini

Class and Section:- B.A. II

Subject:- Special Functions and Integral Transforms

Week	Date	Topics
1	1-Jan-18	Holiday
	2-Jan-18	Holiday
	3-Jan-18	Holiday
	4-Jan-18	Holiday
	5-Jan-18	Holiday
	6-Jan-18	Power series
	7-Jan-18	Sunday
2	8-Jan-18	Power series basic problems
	9-Jan-18	Analytic Functions, Ordinary and Singular Points of Differential Equations
	10-Jan-18	Power Series Solution and questions
	11-Jan-18	Frobenius Method
	12-Jan-18	Indicial Equations and Power Series Solutions
	13-Jan-18	Numerical problems
	14-Jan-18	Sunday
3	15-Jan-18	Beta and Gamma Function
	16-Jan-18	Bessel's Equation and its Solution
	17-Jan-18	Bessel's Function, Deduction of Bessel's Function in the form of series
	18-Jan-18	Recurrence Relations for Bessel's Function with questions
	19-Jan-18	Generating Function for $J_n(x)$
	20-Jan-18	Representation of $J_n(x)$ in Integral
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	Jacobis series
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	Solution of Legendre's Equation Legendre's Polynomial
	26-Jan-18	Republic Day
	27-Jan-18	Rodrigue's Formula Derivation of Legendre's Polynomial from Rodrigue's Formula
	28-Jan-18	Sunday
5	29-Jan-18	Generating Function for $P_n(x)$ and questions
	30-Jan-18	Recurrence Relations, Orthogonality of Legendre polynomial
	31-Jan-18	Guru Ravidas Jayanti

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms. Shalini

Class and Section:- B.A. II

Subject:- . Special Functions and Integral Transforms

Week	Date	Topics
1	1-Feb-18	problems
	2-Feb-18	Solution of Hermite's Equation, Hermite's Polynomial
	3-Feb-18	Generating Function for Hermite's Polynomial, Rodrigue's Formula for $H_n(x)$
	4-Feb-18	Sunday
2	5-Feb-18	Recurrence Relations with questions
	6-Feb-18	Cont.
	7-Feb-18	Laplace Transformation with some basic formulas
	8-Feb-18	Linear Property of Laplace Transformation with questions
	9-Feb-18	First Shifting Property, Results Obtained by First Shifting Property Change of Scale Property
	10-Feb-18	Maharshi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday
3	12-Feb-18	Questions solving
	13-Feb-18	Maha Shivratri
	14-Feb-18	Piece-Wise Continuity of a Function in an Interval, Second Shifting Property
	15-Feb-18	Laplace Transformation of Derivatives, Effect of Multiplication of $f(t)$ by t^n in finding Laplace Transform, Effect of Division of $f(t)$ by t in finding Laplace Transform
	16-Feb-18	Question solving
	17-Feb-18	Test
	18-Feb-18	Sunday
4	19-Feb-18	Laplace Transform of Periodic Function and integrals
	20-Feb-18	Questions
	21-Feb-18	Laplace Transform of some important Function with examples
	22-Feb-18	Inverse Laplace Transform with examples
	23-Feb-18	Other Methods to find Inverse Laplace Transform with questions
	24-Feb-18	Convolution Theorem with examples
	25-Feb-18	Sunday
5	26-Feb-18	Integral Equations and Examples on Laplace Transforms in Integral Equations
	27-Feb-18	Solution of Linear D.E. with constant coefficients and Solution of Linear D.E. with variable coefficients
	28-Feb-18	Vacations-II (Holi Vacation)

Lesson Plan

Name of the Assistant/ Associate Professor: - Ms. Shalini

Class and Section:- B.A. II

Subject:- Special Functions and Integral Transforms

Week	Date	Topics
1	1-Mar-18	Vacations-II (Holi vacation)
	2-Mar-18	Vacations-II (Holi vacation)
	3-Mar-18	Vacations-II (Holi vacation)
	4-Mar-18	Vacations-II (Holi vacation)
2	5-Mar-18	test
	6-Mar-18	Solution of Simultaneous Linear Equation with constant coefficients
	7-Mar-18	problems
	8-Mar-18	Infinite Fourier Transform
	9-Mar-18	Fourier sineTransform
	10-Mar-18	Fourier cosineTransform
	11-Mar-18	Sunday
3	12-Mar-18	Properties of Fourier Transforms
	13-Mar-18	Change of Scale Properties
	14-Mar-18	Shifting and Modulation Property
	15-Mar-18	Examples on Fourier sine and cosine Transforms
	16-Mar-18	Examples on Fourier sine and cosine Transforms
	17-Mar-18	test
	18-Mar-18	Sunday
4	19-Mar-18	Examples based on the use of Inverse Transforms
	20-Mar-18	Examples based on the use of Inverse Transforms
	21-Mar-18	Revision
	22-Mar-18	Presentation by students
	23-Mar-18	Shaheedi Diwas of Bhagat Singh, Rajguru & Sukhdev
	24-Mar-18	Presentation by students
	25-Mar-18	Sunday/ Ram Navami
5	26-Mar-18	Convolution Theorem and Fourier Transform of the Derivative
	27-Mar-18	Cont.
	28-Mar-18	Parseval's Identities with Examples
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	Relation between Fourier and Laplace Tranform
	31-Mar-18	revision

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms. Shalini

Class and Section:- B.A. II

Subject:- Special Functions and Integral Transforms

Week	Date	Topics
1	1-Apr-18	Sunday
	2-Apr-18	Finite Fourier sine and cosine Transform with Examples
	3-Apr-18	Solution of Differtial Equation by Fourier Transforms Examples
	4-Apr-18	Solution of Differtial Equation by Fourier Transforms Examples
	5-Apr-18	Revision
	6-Apr-18	Problems from students
	7-Apr-18	Test
	8-Apr-18	Sunday
2	9-Apr-18	Revision
	10-Apr-18	Revision
	11-Apr-18	Revision
	12-Apr-18	Revision
	13-Apr-18	Revision
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi
	15-Apr-18	Sunday
3	16-Apr-18	Solution of previous year paper
	17-Apr-18	Cont.
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	Test of unit one
	20-Apr-18	Discussion of test
	21-Apr-18	Test of unit two
	22-Apr-18	Sunday
4	23-Apr-18	Discussion of test
	24-Apr-18	Test of unit three
	25-Apr-18	Discussion of test
	26-Apr-18	Test of unit four
	27-Apr-18	Discussion of test
	28-Apr-18	Test of complete book

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms. Shalini

Class and Section:-B.A. III

Subject:- Numerical Analysis

Week	Date	Topics
1	1-Jan-18	Holidays
	2-Jan-18	Holidays
	3-Jan-18	Holidays
	4-Jan-18	Holidays
	5-Jan-18	Holidays
	6-Jan-18	Overview \discussion of syllabus in the book
	7-Jan-18	Sunday
2	8-Jan-18	Finite difference operators(Forward , Backward and Central difference operator and their properties), Fundamental theorem of difference calculus
	9-Jan-18	The operator E and their properties
	10-Jan-18	Numerical problems related to different difference operators
	11-Jan-18	Effect of an error in a tabular value(Missing terms) and related problems
	12-Jan-18	Interpolation with Equal Intervals
	13-Jan-18	Take problems from students and give assignment from the syllabus covered
	14-Jan-18	Sunday
3	15-Jan-18	interpolation and extrapolation
	16-Jan-18	Newton-Gregory formula for forward interpolation and their problems
	17-Jan-18	Newton-Gregory formula for backward interpolation and their problems
	18-Jan-18	Problems of previous two lect. –cont.
	19-Jan-18	Subdivision of intervals and related examples
	20-Jan-18	Take problems from students and give assignment from the syllabus covered
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	divided difference and related theorems
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	Newton's divided difference interpolation formula for unequal intervals and related examples
	26-Jan-18	Republic Day
	27-Jan-18	Relation between divided differences and ordinary differences and related examples
	28-Jan-18	Sunday
5	29-Jan-18	More examples related to Divided Differences
	30-Jan-18	Lagrange's interpolation formula and related examples
	31-Jan-18	Guru Ravidas Jayanti

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms. Shalini

Class and Section:- B.A. III

Subject:- Numerical Analysis

Week	Date	Topics
1	1-Feb-18	Lagrange's interpolation formula and related examples-cont.
	2-Feb-18	Discussion about the assignments submitted
	3-Feb-18	Take problems from students and give assignment from the syllabus covered
	4-Feb-18	Sunday
2	5-Feb-18	<i>Test</i>
	6-Feb-18	Hermite's interpolation formula and related examples
	7-Feb-18	Interpolation with unequal intervals
	8-Feb-18	central difference, Gauss forward interpolation formula and related examples
	9-Feb-18	Gauss backward interpolation formula and related examples
	10-Feb-18	Maharshi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday
3	12-Feb-18	Sterling formula and related examples
	13-Feb-18	Maha Shivratri
	14-Feb-18	Central Difference Interpolation formula and related examples
	15-Feb-18	Bessle's formula and related examples
	16-Feb-18	Take problems from students and give assignment from the syllabus covered
	17-Feb-18	test
	18-Feb-18	Sunday
4	19-Feb-18	A review of Probability and results
	20-Feb-18	Examples of probability distribution of a random variable, Mean and variance of a random variable
	21-Feb-18	Problems based on mean and variance of a random variable
	22-Feb-18	Binomial distribution and related examples
	23-Feb-18	Mean and variance of binomial distribution, recurrence formula
	24-Feb-18	Problems based on properties of binomial distribution
	25-Feb-18	Sunday
5	26-Feb-18	Fitting a binomial distribution
	27-Feb-18	Problems based on fitting a binomial distribution
	28-Feb-18	Vacations-II (Holi Vacation)

Lesson Plan

Name of the Assistant/ Associate Professor: Ms. Shalini

Class and Section:- B.A. III

Subject:- Numerical Analysis

Week	Date	Topics
1	1-Mar-18	Vacations-II (Holi vacation)
	2-Mar-18	Vacations-II (Holi vacation)
	3-Mar-18	Vacations-II (Holi vacation)
	4-Mar-18	Vacations-II (Holi vacation)
2	5-Mar-18	Poisson distribution, Mean, variance and recurrence formula of poisson distribution
	6-Mar-18	Problems related to poisson distribution and their properties
	7-Mar-18	Fitting a poisson distribution and related properties
	8-Mar-18	Normal distribution and its properties
	9-Mar-18	Problems related to Normal distribution and its properties
	10-Mar-18	Fitting of a Normal curve and problems
	11-Mar-18	Sunday
3	12-Mar-18	Method of area to find the expected frequencies for normal curve
	13-Mar-18	Problems to find the expected frequencies for normal curve under the method of area
	14-Mar-18	problems related to Probability distribution
	15-Mar-18	Derivatives Using Newton's Forward and Backward Interpolation formula
	16-Mar-18	Derivatives Using Sterling and Bessel's Central Difference Formula and Newton's Divided Difference formula
	17-Mar-18	Take problems from students and give assignment from the syllabus covered
	18-Mar-18	Sunday
4	19-Mar-18	Problems to find the different derivative when some tabulated table is given
	20-Mar-18	Eigen values and Eigen vectors and some properties , Problems to find the eigen values and their corresponding eigen vectors of the matrix
	21-Mar-18	Power method and problems to find the largest eigen value of the matrix
	22-Mar-18	Jacobi's method for symmetric matrix, method to find all the eigen values and eigen vectors of the matrix
	23-Mar-18	Shaheedi Diwas of Bhagat Singh, Rajguru & Sukhdev
	24-Mar-18	Given's Method and Problems and find the eigen vector corresponding to the largest eigen value from the eigen vectors of the tridiagonal matrix.
	25-Mar-18	Sunday/ Ram Navami
5	26-Mar-18	House-Holder's method and problems based on House-Holder's method
	27-Mar-18	QR method and Lanczo's method and related problems
	28-Mar-18	test
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	Problems from students
	31-Mar-18	Newton Cotes Quadrature formula and related problems

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms. Shalini

Class and Section:- B.A. III

Subject:- Numerical Analysis

Week	Date	Topics
1	1-Apr-18	Sunday
	2-Apr-18	Numerical Integration by trapezoidal rule and related problems
	3-Apr-18	Numerical Integration by Simpson's 1/3 rule and related problems
	4-Apr-18	Numerical Integration by Simpson's 3/8 rule and related problems
	5-Apr-18	Numerical Integration by Gauss's Quadrature formula and related problems
	6-Apr-18	Numerical Integration by Chebyshev's Quadrature formula and related problems
	7-Apr-18	Presentation by students on topic of their choice
	8-Apr-18	Sunday
	2	9-Apr-18
10-Apr-18		Modified Euler's Method and related examples
11-Apr-18		More problems on Euler's method and Modified Euler's method
12-Apr-18		Taylor's series method and problems related to Taylor's series method
13-Apr-18		Runge-Kutta method of First and Second order and its examples
14-Apr-18		Dr Ambedkar Jayanti / Vaisakhi
15-Apr-18		Sunday
3		16-Apr-18
	17-Apr-18	problems related to Taylor's series and R-K method
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	Picard's Method and problems related with Picard's method
	20-Apr-18	Predictor-Corrector Methods, Milne-Simpson's method and its examples
	21-Apr-18	Adams-Bashforth Predictor Formula and Adams-Moulton Corrector Formula and its examples
	22-Apr-18	Sunday
	4	23-Apr-18
24-Apr-18		Take problems from students
25-Apr-18		Revision of chapter 1,2,3
26-Apr-18		Revision of chapter 4,5
27-Apr-18		Revision of chapter 6,7
28-Apr-18		Revision of chapter 8,9

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms. Shalini

Class and Section:- B.A. III

Subject:- Real and Complex Analysis

Week	Date	Topics
1	1-Jan-18	Holiday
	2-Jan-18	Holiday
	3-Jan-18	Holiday
	4-Jan-18	Holiday
	5-Jan-18	Holiday
	6-Jan-18	Jacobian:- basic definitions and examples
	7-Jan-18	Sunday
2	8-Jan-18	Jacobian:- basic definitions and examples
	9-Jan-18	Chain rule for Jacobians and related examples
	10-Jan-18	Numerical Problems related to Jacobian
	11-Jan-18	Functional Dependence and their examples
	12-Jan-18	Numerical Problems related to Functional Dependence
	13-Jan-18	Give brief overview of chapter-1 and take problems and assignment allotment
	14-Jan-18	Sunday
3	15-Jan-18	Beta function: definition and its properties
	16-Jan-18	Examples related to Beta function
	17-Jan-18	Numerical Problems related to Beta function
	18-Jan-18	Gamma function: definition and its recurrence formula
	19-Jan-18	Relationship between Beta and Gamma function and their properties. Illustration with examples.
	20-Jan-18	Duplication Formula and their examples
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	Numerical Problems related to Duplication Formula
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	test
	26-Jan-18	Republic Day
	27-Jan-18	Brief Introduction of chap-3 , Evaluation of Double Integrals
	28-Jan-18	Sunday
5	29-Jan-18	Numerical Problems related to Double Integrals
	30-Jan-18	Triple integrals – introduction, Substitution Method for Triple Integrals
	31-Jan-18	Guru Ravidas Jayanti

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms. Shalini

Class and Section:- B.A. III

Subject:- Real and Complex Analysis

Week	Date	Topics
1	1-Feb-18	Examples related to Substitution Method for Triple Integrals
	2-Feb-18	Numerical Problems related to Triple Integrals
	3-Feb-18	Application of Double and Triple integrals for finding Area and Volume of Surfaces
	4-Feb-18	Sunday
2	5-Feb-18	Numerical Problems related to Application of Double and Triple integrals
	6-Feb-18	Dirichlet's Integral, Liouville's Extension of Dirichlet's integral
	7-Feb-18	Examples related to Dirichlet's Integral
	8-Feb-18	Numerical Problems related to Dirichlet's Integral and Liouville's Extension of Dirichlet's integral
	9-Feb-18	Change of order of integration in double integrals Article and its examples
	10-Feb-18	Numerical Problems related to Change of order of integration in double integrals
	11-Feb-18	Sunday
3	12-Feb-18	Revision and assignment allotment
	13-Feb-18	Maha Shivratri
	14-Feb-18	Fourier's series: Definition and its Properties, Fourier expansion of piecewise monotonic functions
	15-Feb-18	Euler's Formulae, Fourier series for even and odd functions, Dirichlet's conditions
	16-Feb-18	Properties of Fourier Coefficients, Fourier expansion of piecewise monotonic functions
	17-Feb-18	Numerical Problems related to Fourier expansion of piecewise monotonic functions
	18-Feb-18	Sunday
4	19-Feb-18	Fourier expansion of functions having points of discontinuity and related examples
	20-Feb-18	Numerical Problems related to Fourier expansion of functions having points of discontinuity
	21-Feb-18	Change of Intervals property and its examples
	22-Feb-18	Half range series and its examples
	23-Feb-18	Parseval's identity for Fourier series and its examples
	24-Feb-18	Numerical Problems related to Parseval's identity for Fourier series
	25-Feb-18	Sunday
5	26-Feb-18	problems
	27-Feb-18	Give brief overview of chapter-4 and take problems-cont
	28-Feb-18	Vacations-II (Holi Vacation)

Lesson Plan

Name of the Assistant/ Associate Professor: - Ms. Shalini

Class and Section:- B.A. III

Subject:- Real and Complex Analysis

Week	Date	Topics
1	1-Mar-18	Vacations-II (Holi vacation)
	2-Mar-18	Vacations-II (Holi vacation)
	3-Mar-18	Vacations-II (Holi vacation)
	4-Mar-18	Vacations-II (Holi vacation)
2	5-Mar-18	test
	6-Mar-18	theorems
	7-Mar-18	Introduction to Complex Plane and Stereographic projection of complex numbers
	8-Mar-18	Examples related to Stereographic projection of complex numbers
	9-Mar-18	Complex Functions definitions, Limit, continuity, uniform continuity of complex functions
	10-Mar-18	Examples related to Limit, continuity, uniform continuity of complex functions
	11-Mar-18	Sunday
3	12-Mar-18	Differentiability of complex function, Rule of differentiation and geometric interpretation of the derivative
	13-Mar-18	Numerical Problems related to Limit, continuity, Differentiability, uniform continuity of complex functions
	14-Mar-18	Analytic functions and Necessary condition for a function to be analytic, Cauchy-Riemann equations
	15-Mar-18	Sufficient condition for a function to be analytic and their examples
	16-Mar-18	\Cauchy-Riemann equations in Polar form, Orthogonal System
	17-Mar-18	Harmonic functions and its examples
	18-Mar-18	Sunday
4	19-Mar-18	Construction of Analytic functions by Milne-Thompson's Method and its examples
	20-Mar-18	Construction of Analytic functions by Exact Differential Method and its examples
	21-Mar-18	Test
	22-Mar-18	Applications of Analytic functions to field and flow problems and numerical problems related to these topics.
	23-Mar-18	Multi-valued Functions, Branch, Branch Cut, Branch Points, Exponential function, properties of exponential functions.
	24-Mar-18	Trigonometry functions and its properties, Hyperbolic functions and its properties
	25-Mar-18	Sunday/ Ram Navami
5	26-Mar-18	The Logarithmic functions and its properties, Inverse trigonometric and hyperbolic functions and its properties
	27-Mar-18	Mappings, Translation mappings, Rotation mappings and their examples

28-Mar-18	Magnification, Rotation and Magnification, and their examples
29-Mar-18	Mahavir Jayanti
30-Mar-18	Inversion mappings and its examples
31-Mar-18	Conformal mappings and its properties,examples

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Class and Section:- B.A. III

Subject:- Real and Complex Analysis

Week	Date	Topics
1	1-Apr-18	Sunday
	2-Apr-18	Linear transformation, Bilinear transformation with articles
	3-Apr-18	Cont.
	4-Apr-18	Examples related to Bilinear transformation
	5-Apr-18	Critical points and its examples
	6-Apr-18	Fixed points and their examples
	7-Apr-18	Nature of Bilinear transformation and its examples,articles
	8-Apr-18	Sunday
2	9-Apr-18	Examples based on Bilinear transformation
	10-Apr-18	Cross Ratio and its articles with examples
	11-Apr-18	Some examples based on Cross Ratio, Inverse Points
	12-Apr-18	Exponential Transformations and its examples with articles
	13-Apr-18	Revision
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi
	15-Apr-18	Sunday
3	16-Apr-18	Test
	17-Apr-18	Logarithmic Transformations and its examples with articles
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	Trigonometric transformations and its examples with articles
	20-Apr-18	Linear fractional transformations and its examples with articles
	21-Apr-18	Joukowski's transformation and its examples
	22-Apr-18	Sunday
4	23-Apr-18	Some Theorems and Examples based on Critical mappings
	24-Apr-18	Revision

	25-Apr-18	Revision
	26-Apr-18	Revision
	27-Apr-18	Revision
	28-Apr-18	Revision

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms. Shalini

Class and Section:- B.A. III

Subject:- Numerical Analysis(practicals)

Week	Date	Topics
1	1-Jan-18	Holidays
	2-Jan-18	Holidays
	3-Jan-18	Holidays
	4-Jan-18	Holidays
	5-Jan-18	Holidays
	6-Jan-18	Basics of computer revision
	7-Jan-18	Sunday
2	8-Jan-18	Off
	9-Jan-18	Basics of computer revision
	10-Jan-18	Off
	11-Jan-18	Basics of computer revision
	12-Jan-18	Off
	13-Jan-18	Basics of computer revision
	14-Jan-18	Sunday
3	15-Jan-18	Off
	16-Jan-18	Basics of computer revision
	17-Jan-18	Off
	18-Jan-18	Basics of c language revision
	19-Jan-18	Off
	20-Jan-18	Basics of c language revision
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	Basics of c language revision
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	Basics of c language revision
	26-Jan-18	Republic Day
	27-Jan-18	Loops revision

	28-Jan-18	Sunday
5	29-Jan-18	Off
	30-Jan-18	Loops revision
	31-Jan-18	Guru Ravidas Jayanti

Lesson Plan

Name of the Assistant/ Associate Professor :-

Class and Section:-

Subject:-

Week	Date	Topics
1	1-Feb-18	Basic programs- compound interest, leap year, greatest number
	2-Feb-18	Off
	3-Feb-18	Basic programs-matrix addition , matrix multiplication
	4-Feb-18	Sunday
2	5-Feb-18	Off
	6-Feb-18	Program for Gauss forward and Gauss's backward interpolation formulae
	7-Feb-18	Off
	8-Feb-18	Algorithm for Gauss forward and Gauss's backward interpolation formulae
	9-Feb-18	off
	10-Feb-18	Maharshi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday
3	12-Feb-18	Off
	13-Feb-18	Maha Shivratri
	14-Feb-18	Off
	15-Feb-18	Program for Trapezoidal rule
	16-Feb-18	Off
	17-Feb-18	Algorithm for Trapezoidal rule
	18-Feb-18	Sunday
4	19-Feb-18	Off
	20-Feb-18	Program for Simpson's onethird and three-eighth rule
	21-Feb-18	Off
	22-Feb-18	Algorithm for Simpson's onethird and three-eighth rule
	23-Feb-18	Off
	24-Feb-18	Program for v

	25-Feb-18	Sunday
5	26-Feb-18	Off
	27-Feb-18	Algorithm for Gauss Quadrature formula
	28-Feb-18	Vacations-II (Holi Vacation)

Lesson Plan

Name of the Assistant/ Associate Professor: - Ms. Shalini

Class and Section:- B.A. III

Subject:- Numerical Analysis(practicals)

Week	Date	Topics
1	1-Mar-18	Vacations-II (Holi vacation)
	2-Mar-18	Vacations-II (Holi vacation)
	3-Mar-18	Vacations-II (Holi vacation)
	4-Mar-18	Vacations-II (Holi vacation)
2	5-Mar-18	Off
	6-Mar-18	Program for Euler's method
	7-Mar-18	Off
	8-Mar-18	Algorithm for Euler's method
	9-Mar-18	Off
	10-Mar-18	Program for Runge-Kutta Methods
	11-Mar-18	Sunday
3	12-Mar-18	Off
	13-Mar-18	Algorithm for Runge-Kutta Methods
	14-Mar-18	Off
	15-Mar-18	Program for Predictor-corrector method
	16-Mar-18	Off
	17-Mar-18	Algorithm for Predictor-corrector method
	18-Mar-18	Sunday
4	19-Mar-18	Off
	20-Mar-18	Program for Modified Euler's method
	21-Mar-18	Off
	22-Mar-18	Algorithm for Modified Euler's method
	23-Mar-18	Shaheedi Diwas of Bhagat Singh, Rajguru & Sukhdev
	24-Mar-18	Program for Milne-Simpson's method.

	25-Mar-18	Sunday/ Ram Navami
5	26-Mar-18	Off
	27-Mar-18	Algorithm for Milne-Simpson's method.
	28-Mar-18	Off
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	Off
	31-Mar-18	Completion of file

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms. Shalini

Class and Section:- B.A. III

Subject:- Numerical Analysis(practicals)

Week	Date	Topics
1	1-Apr-18	Sunday
	2-Apr-18	Off
	3-Apr-18	Completion of file
	4-Apr-18	Off
	5-Apr-18	Completion of file
	6-Apr-18	Off
	7-Apr-18	Completion of file
	8-Apr-18	Sunday
2	9-Apr-18	Off
	10-Apr-18	Checking of file
	11-Apr-18	Off
	12-Apr-18	Checking of file
	13-Apr-18	Off
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi
	15-Apr-18	Sunday
3	16-Apr-18	Off
	17-Apr-18	Checking of file
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	Checking of file
	20-Apr-18	Off
	21-Apr-18	Revision
	22-Apr-18	Sunday

4	23-Apr-18	Off
	24-Apr-18	Revision
	25-Apr-18	off
	26-Apr-18	Revision
	27-Apr-18	off
	28-Apr-18	Revision