

Lesson Plan

Name of the Assistant/ Associate Professor... DIMPLE RANI.....

Class and Section: M.Sc. (MATHEMATICS), SEM-II.....

Subject: Complex Analysis.....

Week	Date	Topics
1	1-Jan-18	Introduction of Complex number and variable
	2-Jan-18	function of a Complex variable
	3-Jan-18	DISCUSS of Continuity of a Complex variable
	4-Jan-18	DISCUSS some Theorems and Examples of Continuity
	5-Jan-18	HOLIDAY
	6-Jan-18	Analytic functions of Complex variable
	7-Jan-18	Sunday
2	8-Jan-18	Properties of Analytic functions
	9-Jan-18	Cauchy-Riemann Equations in Cartesian and Polar form
	10-Jan-18	DISCUSS Examples of C'R Equation
	11-Jan-18	Harmonic function of Complex variable
	12-Jan-18	Example of Harmonic function
	13-Jan-18	Stereographic Projection
	14-Jan-18	Sunday
3	15-Jan-18	Class Test (Analytic function)
	16-Jan-18	Def of Power series
	17-Jan-18	DISCUSS Examples of Power series
	18-Jan-18	Radius of convergence and their Properties
	19-Jan-18	DISCUSS Example of Radius of convergence
	20-Jan-18	— do —
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	Differentiability of sum function of a Power series
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	Branches of Logarithm
	26-Jan-18	Republic Day
	27-Jan-18	DISCUSS Examples of Branches, Differentiability of Power series
	28-Jan-18	Sunday
5	29-Jan-18	Analytic Continuation
	30-Jan-18	Example of Analytic Continuation
	31-Jan-18	HOLIDAY

Lesson Plan

Name of the Assistant/ Associate Professor... MISS DIMPLE

Class and Section: M.Sc. (Mathematics) Sem - II

Subject: Complex Analysis

Week	Date	Topics
1	1-Feb-18	Discuss Path, Region
	2-Feb-18	Contour
	3-Feb-18	Simply and multiply Connected Region
	4-Feb-18	Sunday
2	5-Feb-18	TEST (Power Series)
	6-Feb-18	Complex integration
	7-Feb-18	Examples of Complex integration
	8-Feb-18	Cauchy's theorem
	9-Feb-18	Examples of Cauchy's theorem
	10-Feb-18	Maharshi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday
3	12-Feb-18	Cauchy's integral formula
	13-Feb-18	Maha Shivratri
	14-Feb-18	Examples of Cauchy integral formula
	15-Feb-18	Poisson's integral formula
	16-Feb-18	Examples of Poisson's integral formula
	17-Feb-18	Complex integral as a function of its upper limit
	18-Feb-18	Sunday
4	19-Feb-18	Morera Theorem
	20-Feb-18	Examples of Morera Theorem
	21-Feb-18	Cauchy's inequality
	22-Feb-18	Examples of Cauchy inequality
	23-Feb-18	Louville's Theorem
	24-Feb-18	Examples of Louville's Theorem
	25-Feb-18	Sunday
5	26-Feb-18	The fundamental Theorem of algebra
	27-Feb-18	Examples of the fundamental Theorem of algebra
	28-Feb-18	HOLIDAY

Lesson Plan

Name of the Assistant/ Associate Professor... MISS DIMPLE.....

Class and Section: M.Sc. (Mathematics) Sem-II.....

Subject: Complex Analysis.....

Week	Date	Topics
1	1-Mar-18	Guru Ravidas Birthday
	2-Mar-18	Holi
	3-Mar-18	HOLIDAY
	4-Mar-18	Sunday
2	5-Mar-18	Test (Cauchy Theorem and related Theorem)
	6-Mar-18	Zeros of an analytic function
	7-Mar-18	Examples of zeros of an analytic function
	8-Mar-18	Laurent's Series
	9-Mar-18	Singularities
	10-Mar-18	Examples of singularities
	11-Mar-18	Sunday
3	12-Mar-18	Cauchy - Weierstrass Theorem
	13-Mar-18	Limit Points of zeros and poles
	14-Mar-18	Examples of limit points of zeros and poles
	15-Mar-18	Maximum and minimum Principles
	16-Mar-18	Examples of Maximum and minimum Principles
	17-Mar-18	Schwarz's Lemma
	18-Mar-18	Sunday
4	19-Mar-18	Properties of Schwarz Lemma
	20-Mar-18	Meromorphic functions with Examples
	21-Mar-18	Some Theorems of Meromorphic function
	22-Mar-18	Residues and their Properties
	23-Mar-18	Shaheedi Diwas of Bhagat Singh, Rajguru & Sukhdev
	24-Mar-18	Examples of Residues
	25-Mar-18	Sunday/ Ram Navami
5	26-Mar-18	Test (Singularities)
	27-Mar-18	Cauchy's residue Theorem
	28-Mar-18	Examples of Cauchy's residue Theorem
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	Evaluation of improper integration
	31-Mar-18	Example of Improper Integration

Lesson Plan

Name of the Assistant/ Associate Professor: MISS DIMPLE

Class and Section: M.Sc. (Mathematics) - Sem-II

Subject: Complex Analysis

Week	Date	Topics
1	1-Apr-18	Sunday
	2-Apr-18	TEST (Residue)
	3-Apr-18	The argument Principle
	4-Apr-18	Example of Argument Principle
	5-Apr-18	Rouché's Theorem
	6-Apr-18	Examples of Rouché's Theorem
	7-Apr-18	Inverse function Theorem
	8-Apr-18	Sunday
2	9-Apr-18	Bilinear Transformation
	10-Apr-18	Properties and Classification of Bilinear Transformation
	11-Apr-18	Examples of Bilinear Transformation
	12-Apr-18	Conformal Mapping and their Properties
	13-Apr-18	Examples of Conformal Mapping
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi
	15-Apr-18	Sunday
3	16-Apr-18	TEST (Bilinear Transformation, Conformal Mapping)
	17-Apr-18	Space of analytic functions
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	Completeness of analytic functions
	20-Apr-18	Riemann Mapping Theorem
	21-Apr-18	TEST (Argument Principle & Rouché's Theorem)
	22-Apr-18	Sunday
4	23-Apr-18	Seminar
	24-Apr-18	Seminar
	25-Apr-18	Revised full syllabus
	26-Apr-18	Discuss on Previous year Papers
	27-Apr-18	Discuss on Previous year Papers
	28-Apr-18	TEST (full syllabus)