

Pt. CLS Govt. college karnal		
LESSON PLAN		
SESSION 2023-24 (01.01.2024 to 30.04.2024)		
Weekly Lesson Plan (Even Semester)		
Name of the Paper:- Complex Analysis-II		Class: M.Sc. Previous
Name of the Teachers : Kawaljeet singh		
WEEK	DATE	TOPICS
1	January (1-6)	Spaces of Analytic Functions
		Completeness of Analytic Functions
		Hurwitz Theorem
		Hurwitz Theorem
		Montel's Theorem
SUNDAY - 07.01.2024		
2	January (8-13)	Problem Discussion
		Test
		Riemann Mapping Theorem
		Riemann Mapping Theorem
		Infinite Products
SUNDAY - 14.01.2024		
3	January (15-16)	Theorems related to Infinite Products
		Theorems related to Infinite Products
	January (18-20)	Weierstrass Factorisation Theorem
		Weierstrass Factorisation Theorem
		Problem Discussion

		Test
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	Factorisation of sine function
		Related Numericals
		Gamma Function and its Properties
		Theorems on Properties of Gamma Function
		Theorems on Properties of Gamma Function
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	Functional Equation for Gamma Function
		Integral Version of Gamma Function
		Problem Discussion
		Test
		Riemann - zeta function
		Riemann Functional Equation
SUNDAY - 04.02.2024		
6	February (5-10)	Runge's Theorem
		Runge's Theorem
		Mittag leffler's Theorem
		Mittag Leffler's Theorem
		Problem Discussion
		Test
SUNDAY - 11.02.2024		
7	February (12-13) February (15-17)	Analytic Continuation
		Uniqueness of Direct Analytic Continuation
		Uniqueness of Analytic Continuation along a curve
		Uniqueness of Analytic Continuation along a curve
		Test
HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI		

SUNDAY - 18.02.2024		
8	February (19-24)	Power Series Method of Analytic Continuation
		Schwartz Reflection Principle
		Schwartz Reflection Principle
		Problem Discussion
		Test
		Monodromy Theorem
SUNDAY - 25.02.2024		
9	February (26-29) March (1-2)	Consequences of Monodromy Theorem
		Harmonic Function as a Disc
		Poisson's kernel
		Harnack's Inequality
		Harnack's Inequality
		Harnack's Theorem
SUNDAY - 03.03.2024		
10	March (4-7) March (9)	Harnack's Theorem
		Canonical Theorem
		Jenson's Formula
		Poisson Jenson's Formula
		Hadamard's Three Circles Theorem
		Problem Discussion
HOLIDAY - 08.03.2024 - MAHA SHIVRATRI		
SUNDAY - 10.03.2024		
11	March (11-16)	Dirichlet Problem for a Unit Disc
		Dirichlet Problem for a region
		Green's Function
		Problem Discussion
		Test
		Order of an entire function
SUNDAY - 17.03.2024		

12	March (18-22)	Exponent of Convergence	
		Related Theorems	
		Borels Theorem	
		Borels Theorem	
		Hadamard Factorisation Theorem	
		Hadamard Factorisation Theorem	
HOLI VACATION - 23.03.2024 - 31.03.2024 (SHAHEEDI DIWAS - 23.03.2024)			
13	April (1-6)	The Range of an analytic function	
		The Range of an analytic function	
		Bloch's Theorem	
		Bloch's Theorem	
		Problem Discussion	
		Test	
SUNDAY - 07.04.2024			
14	April (8-10)	Little Picard Theorem	
		Little Picard Theorem	
		Problem Discussion	
	April (12-13)	Schottkky's Theorem	
		Schottkky's Theorem	
		Montel -Carathedory Theorem	
HOLIDAY - 11.04.2024 - ID-UL-FITR			
SUNDAY - 14.04.2024			
15	April (15-16)	Montel -Carathedory Theorem	
		Problem Discussion	
	April (18-20)	Test	
		Great Picard Theorem	
		Great Picard Theorem	
HOLIDAY - 17.04.2024 - RAM NAVMI			
SUNDAY - 21.04.2024			

16	April (22-27)	Great Picard Theorem	
		Related Numericals	
		Related Numericals	
		Related Numericals	
		Problem Discussion	
		Test	
SUNDAY - 28.04.2024			
17	April (29-30)	Revision	
		Revision	
		Revision	
		Test	
University Examinations w.e.f. 01.05.2024			