



ARSD College, University of Delhi

Lesson Plan (LAB)

Course Name :B.Sc.(H) Mathematics						
Semester	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Credit (C)
V	32351601	BMATH613: Complex Analysis	0	0	4	2
Teacher/Instructor(s)		Ashutosh Meena and Priyanka Yadav				
Session		2021-2022				

Course Description:

This course aims to make students familiar with the basic ideas of analysis for complex functions in complex variables visually through relevant practicals. The practicals cover wide range of topics from theory including Cauchy's theorems, series expansions and calculation of residues. The practicals will be done using Mathematica.

List of Experiments:

Details of the Lab Course		
Session	Name of Experiment	Contact Hours
1	Practical 1	4
2	Practical 2	3
3	Practical 3	3
4	Practical 4	3
5	Practical 5	4
6	Practical 6	3
7	Practical 7	4
8	Practical 8	3
9	Practical 9	3
10	Practical 10	3
11	Practical 11	3
12	Practical 12	4
13	Practical 13	3
14	Practical 14	3
15	Practical 15	3
16	Practical 16	3
17	Practical 17	4
Total		56

Suggested Books:

Sl. No.	Name of Authors/Books/Publishers	Year of Publication/Re print
1.	Brown, James Ward, & Churchill, Ruel V. (2014). Complex Variables and Applications (9th ed.). McGraw-Hill Education. New York.	2014
2.	Bak, Joseph & Newman, Donald J. (2010). Complex Analysis (3rd ed.). Undergraduate Texts in Mathematics, Springer. New York.	2010
3.	Zills, Dennis G., & Shanahan, Patrick D. (2003). A First Course in Complex Analysis with Applications. Jones & Bartlett Publishers, Inc.	2003
4.	Mathews, John H., & Howell, Russell W. (2012). Complex Analysis for Mathematics and Engineering (6th ed.). Jones & Bartlett Learning. Narosa,	2012

	Delhi. Indian Edition.	
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Evaluation Scheme:

No.	Component	Duration	Marks
1.	Internal Assessment		25

	<ul style="list-style-type: none">• Quiz/Viva• Observation & Record• Attendance• Model Exam		
2.	End Semester Examination	3 hr	25

