

**LESSON PLAN FOR EVEN SEM**  
**SESSION 2017-18**

**NAME OF ASSOCIATE PROFESSOR:DR. RACHNA AGGARWAL**

**CLASS/SECTION: B.A./B.SC. VI SEM(B&E)**

**SUBJECT: MATHEMATICS (PAPER-I: REAL AND COMPLEX ANALYSIS, PAPER III: DYNAMICS(ONE CHAPTER))**

UNIT I	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 1-1-18	Preliminaries	
DAY2 DATE 2-1-18	Preliminaries	
DAY3 DATE 3-1-18	Jacobians	
DAY4 DATE 4-1-18	Jacobians	
DAY5 DATE 5-1-18	Jacobians	
DAY6 DATE 6-1-18	Jacobians	
DAY7 DATE 8-1-18	Jacobians	
DAY8 DATE 9-1-18	Beta and Gamma Functions	
DAY9 DATE 10-1-18	Beta and Gamma Functions	
DAY10 DATE 11-1-18	Test of Jacobians	
DAY11 DATE 12-1-18	Beta and Gamma Functions	
DAY12 DATE 13-1-18	Beta and Gamma Functions	
DAY13 DATE 15-1-18	Beta and Gamma Functions	
DAY 14 DATE 16-1-18	Beta and Gamma Functions	
DAY15 DATE 17-1-18	Beta and Gamma Functions	
DAY16 DATE 18-1-18	Beta and Gamma Functions	
DAY17 DATE 19-1-18	Beta and Gamma Functions	
DAY18	Beta and Gamma Functions	

DATE 20-1-18		
DAY19 DATE 22-1-18	<b>HOLIDAY</b>	
DAY20 DATE 23-1-18	<b>SPORTS DAY</b>	
DAY21 DATE 24-1-18	<b>HOLIDAY</b>	
DAY22 DATE 25-1-18	Test of Beta and Gamma Functions	
DAY23 DATE 26-1-18	<b>HOLIDAY</b>	
DAY 24 DATE 27-1-18	Double and Triple Integration	
DAY 25 DATE 29-1-18	Double and Triple Integration	
DAY 26 DATE 30-1-18	Double and Triple Integration	
DAY 28 DATE 31-1-18	<b>HOLIDAY</b>	
DAY 29 DATE 1-2-18	Double and Triple Integration	
DAY 30 DATE 2-2-18	Double and Triple Integration	
DAY 31 DATE 3-2-18	Double and Triple Integration	
DAY 32 DATE 5-2-18	Double and Triple Integration	
DAY 33 DATE 6-2-18	Double and Triple Integration	
DAY 34 DATE 7-2-18	Double and Triple Integration	
DAY 35 DATE 8-2-18	Double and Triple Integration	
DAY 36 DATE 9-2-18	<b>ASSIGNMENT 1</b>	
DAY 37 DATE 10-2-18	<b>HOLIDAY</b>	
DAY 38 DATE 12-2-18	Test of Double and Triple Integration	
DAY 39 DATE 13-2-18	<b>HOLIDAY</b>	
<b>UNIT II</b>	<b>TOPIC</b>	
	<b>THEORY</b>	<b>PRACTICAL</b>
DAY1 DATE 14-2-18	Fourier Series	

DAY 2 DATE 15-2-18	Fourier Series	
DAY 3 DATE 16-2-18	Fourier Series	
DAY 4 DATE 17-2-18	Fourier Series	
DAY 5 DATE 19-2-18	Fourier Series	
DAY 6 DATE 20-2-18	Fourier Series	
DAY 7 DATE 21-2-18	Fourier Series	
DAY 8 DATE 22-2-18	Fourier Series	
DAY 9 DATE 23-2-18	Fourier Series	
DAY 10 DATE 24-2-18	Test of Fourier Series	
<b>UNIT III</b>	<b>TOPIC</b>	
	<b>THEORY</b>	<b>PRACTICAL</b>
DAY 1 DATE 26-2-18	Complex Functions	
DAY 2 DATE 27-2-18	Complex Functions	
DAY 3 DATE 28-2-18	<b>HOLIDAY</b>	
DAY4 DATE 1-3-18	<b>HOLIDAY</b>	
DAY5 DATE 2-3-18	<b>HOLIDAY</b>	
DAY6 DATE 3-3-18	<b>HOLIDAY</b>	
DAY7 DATE 5-3-18	Complex Functions	
DAY8 DATE 6-3-18	Complex Functions	
DAY9 DATE 7-3-18	Complex Functions	
DAY10 DATE 8-3-18	Complex Functions	
DAY11 DATE 9-3-18	Complex Functions	
DAY12 DATE 10-3-18	<b>ASSIGNMENT 2</b>	
DAY 13 DATE 12-3-18	Test of Complex Functions	

UNIT IV	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 13-3-18	Elementary Functions and Mobius Transformations	
DAY 2 DATE 14-3-18	Elementary Functions and Mobius Transformations	
DAY3 DATE 15-3-18	Elementary Functions and Mobius Transformations	
DAY4 DATE 16-3-18	Elementary Functions and Mobius Transformations	
DAY5 DATE 17-3-18	Elementary Functions and Mobius Transformations	
DAY6 DATE 19-3-18	Elementary Functions and Mobius Transformations	
DAY7 DATE 20-3-18	Elementary Functions and Mobius Transformations	
DAY8 DATE 21-3-18	<b>CONDITIONAL TEST</b>	
DAY9 DATE 22-3-18	<b>CONDITIONAL TEST</b>	
DAY 10 DATE 23-3-18	<b>HOLIDAY</b>	
DAY 11 DATE 24-3-18	Critical Mapping	
DAY12 DATE 26-3-18	Critical Mapping	
DAY13 DATE 27-3-18	Critical Mapping	
PAPER-III UNIT-III, PART-II	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 28-3-18	Projectile motion	
DAY2 DATE 29-3-18	<b>HOLIDAY</b>	
DAY3 DATE 30-3-18	Projectile motion	
DAY4 DATE 31-3-18	Projectile motion	
DAY5 DATE 2-4-18	Projectile motion	
DAY6 DATE 3-4-18	Projectile motion	
DAY7 DATE 4-4-18	Projectile motion	

DAY 8 DATE 5-4-18	Projectile motion	
DAY 9 DATE 6-4-18	Projectile motion	
DAY10 DATE 7-4-18	Projectile motion	
DAY 11 DATE 9-4-18	Projectile motion	
DAY12 DATE 10-4-18	Projectile motion	
DAY13 DATE 11-4-18	Projectile motion	
DAY14 DATE 12-4-18	Projectile motion	
DAY15 DATE 13-4-18	Projectile motion	
DAY16 DATE 14-4-18	<b>HOLIDAY</b>	
DAY17 DATE 16-4-18	Test of Projectile motion	
DAY18 DATE 17-4-18	Revision	
DAY19 DATE 18-4-18	<b>HOLIDAY</b>	
DAY20 DATE 19-4-18	Revision	
DAY21 DATE 20-4-18	Revision	

**NAME OF ASSOCIATE PROFESSOR: DR. RACHNA AGGARWAL**  
**CLASS/SECTION: B.A./B.SC. IV SEM (B)**  
**SUBJECT: MATHEMATICS (PAPER-I: SEQUENCES AND SERIES)**

UNIT II, PART-II	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 1-1-18	Preliminaries	
DAY2 DATE 2-1-18	Preliminaries	
DAY3 DATE 3-1-18	Preliminaries	
DAY4 DATE 4-1-18	Infinite Series	

DAY5 DATE 5-1-18	Infinite Series	
DAY6 DATE 6-1-18	Infinite Series	
DAY7 DATE 8-1-18	Infinite Series	
DAY8 DATE 9-1-18	Infinite Series	
DAY9 DATE 10-1-18	Infinite Series	
DAY10 DATE 11-1-18	Infinite Series	
<b>UNIT III</b>	<b>TOPIC</b>	
	<b>THEORY</b>	<b>PRACTICAL</b>
DAY1 DATE 12-1-18	Infinite Series (Continued)	
DAY2 DATE 13-1-18	Infinite Series (Continued)	
DAY3 DATE 15-1-18	Infinite Series (Continued)	
DAY 4 DATE 16-1-18	Infinite Series (Continued)	
DAY 5 DATE 17-1-18	Infinite Series (Continued)	
DAY6 DATE 18-1-18	Test of Infinite Series	
DAY7 DATE 19-1-18	Infinite Series (Continued)	
DAY8 DATE 20-1-18	Infinite Series (Continued)	
DAY9 DATE 22-1-18	<b>HOLIDAY</b>	
DAY10 DATE 23-1-18	<b>SPORTS DAY</b>	
DAY11 DATE 24-1-18	<b>HOLIDAY</b>	
DAY12 DATE 25-1-18	Infinite Series (Continued)	
DAY13 DATE 26-1-18	<b>HOLIDAY</b>	
DAY 14 DATE 27-1-18	Infinite Series (Continued)	
DAY15 DATE 29-1-18	Infinite Series (Continued)	
DAY16 DATE 30-1-18	Infinite Series (Continued)	

DAY17 DATE 31-1-18	<b>HOLIDAY</b>	
DAY18 DATE 1-2-18	Test of Infinite Series (Continued)	
<b>UNIT IV</b>	<b>TOPIC</b>	
	<b>THEORY</b>	<b>PRACTICAL</b>
DAY1 DATE 2-2-18	Alternating Series	
DAY2 DATE 3-2-18	Alternating Series	
DAY3 DATE 5-2-18	Alternating Series	
DAY4 DATE 6-2-18	Alternating Series	
DAY5 DATE 7-2-18	Alternating Series	
DAY6 DATE 8-2-18	Arbitrary Series	
DAY7 DATE 9-2-18	<b>ASSIGNMENT 1</b>	
DAY8 DATE 10-2-18	<b>HOLIDAY</b>	
DAY9 DATE 12-2-18	Arbitrary Series	
DAY10 DATE 13-2-18	<b>HOLIDAY</b>	
DAY11 DATE 14-2-18	Test of Alternating Series	
DAY12 DATE 15-2-18	Arbitrary Series	
DAY13 DATE 16-2-18	Arbitrary Series	
DAY14 DATE 17-2-18	Arbitrary Series	
DAY15 DATE 19-2-18	Arbitrary Series	
DAY16 DATE 20-2-18	Arbitrary Series	
DAY17 DATE 21-2-18	Arbitrary Series	
DAY18 DATE 22-2-18	Arbitrary Series	
DAY19 DATE 23-2-18	Test of arbitrary series	
DAY20 DATE 24-2-18	Infinite product	

DAY21 DATE 26-2-18	Infinite product	
DAY22 DATE 27-2-18	Infinite product	
DAY23 DATE 28-2-18	<b>HOLIDAY</b>	
DAY24 DATE 1-3-18	<b>HOLIDAY</b>	
DAY25 DATE 2-3-18	<b>HOLIDAY</b>	
DAY26 DATE 3-3-18	<b>HOLIDAY</b>	
DAY27 DATE 5-3-18	Infinite product	
DAY28 DATE 6-3-18	Infinite product	
DAY29 DATE 7-3-18	Infinite product	
DAY30 DATE 8-3-18	Test of Infinite Product	
<b>UNIT I</b>	<b>TOPIC</b>	
	<b>THEORY</b>	<b>PRACTICAL</b>
DAY1 DATE 9-3-18	Topology of Real Numbers	
DAY2 DATE 10-3-18	<b>ASSIGNMENT 2</b>	
DAY 3 DATE 12-3-18	Topology of Real Numbers	
DAY4 DATE 13-3-18	Topology of Real Numbers	
DAY5 DATE 14-3-18	Topology of Real Numbers	
DAY6 DATE 15-3-18	Topology of Real Numbers	
DAY7 DATE 16-3-18	Topology of Real Numbers	
DAY8 DATE 17-3-18	Topology of Real Numbers	
DAY9 DATE 19-3-18	Topology of Real Numbers	
DAY10 DATE 20-3-18	Topology of Real Numbers	
DAY11 DATE 21-3-18	<b>CONDITIONAL TEST</b>	



DAY12 DATE 22-3-18	<b>CONDITIONAL TEST</b>	
DAY 13 DATE 23-3-18	<b>HOLIDAY</b>	
DAY 14 DATE 24-3-18	Topology of Real Numbers	
DAY15 DATE 26-3-18	Topology of Real Numbers	
DAY16 DATE 27-3-18	Topology of Real Numbers	
<b>UNIT II, PART I</b>	<b>TOPIC</b>	
	<b>THEORY</b>	<b>PRACTICAL</b>
DAY1 DATE 28-3-18	Sequences	
DAY2 DATE 29-3-18	<b>HOLIDAY</b>	
DAY3 DATE 30-3-18	Sequences	
DAY4 DATE 31-3-18	Sequences	
DAY5 DATE 2-4-18	Sequences	
DAY6 DATE 3-4-18	Sequences	
DAY7 DATE 4-4-18	Sequences	
DAY8 DATE 5-4-18	Sequences	
DAY9 DATE 6-4-18	Sequences	
DAY10 DATE 7-4-18	Sequences	
DAY11 DATE 9-4-18	Sequences	
DAY12 DATE 10-4-18	Sequences	
DAY13 DATE 11-4-18	Sequences	
DAY14 DATE 12-4-18	Revision	
DAY15 DATE 13-4-18	Revision	
DAY16 DATE 14-4-18	<b>HOLIDAY</b>	
DAY17 DATE 16-4-18	Revision	

DAY18 DATE 17-4-18	Revision	
DAY19 DATE 18-4-18	<b>HOLIDAY</b>	
DAY20 DATE 19-4-18	Revision	
DAY21 DATE 20-4-18	Revision	

**NAME OF ASSOCIATE PROFESSOR: DR. RACHNA AGGARWAL**

**CLASS/SECTION : B.A./B.SC. II SEM (B)**

**SUBJECT: MATHEMATICS (PAPER-II: ORDINARY DIFFERENTIAL EQUATIONS)**

UNIT I, PART-I	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 1-1-18	Preliminaries	
DAY2 DATE 2-1-18	Preliminaries	
DAY3 DATE 3-1-18	Preliminaries	
DAY4 DATE 4-1-18	Preliminaries	
DAY5 DATE 5-1-18	Exact Differential Equations	
DAY6 DATE 6-1-18	Exact Differential Equations	
DAY7 DATE 8-1-18	Exact Differential Equations	
DAY8 DATE 9-1-18	Exact Differential Equations	
DAY9 DATE 10-1-18	Exact Differential Equations	
DAY10 DATE 11-1-18	Exact Differential Equations	
DAY11 DATE 12-1-18	Exact Differential Equations	
DAY12 DATE 13-1-18	Exact Differential Equations	
DAY13 DATE 15-1-18	Test of Exact Differential Equations	
UNIT II	TOPIC	
	THEORY	PRACTICAL
DAY 1 DATE 16-1-18	Orthogonal Trajectory	

DAY2 DATE 17-1-18	Orthogonal Trajectory	
DAY3 DATE 18-1-18	Orthogonal Trajectory	
DAY4 DATE 19-1-18	Linear Differential Equation with Constant Coefficients	
DAY5 DATE 20-1-18	Test of Orthogonal Trajectory	
DAY6 DATE 22-1-18	<b>HOLIDAY</b>	
DAY7 DATE 23-1-18	<b>SPORTS DAY</b>	
DAY8 DATE 24-1-18	<b>HOLIDAY</b>	
DAY9 DATE 25-1-18	Linear Differential Equation with Constant Coefficients	
DAY10 DATE 26-1-18	<b>HOLIDAY</b>	
DAY 11 DATE 27-1-18	Linear Differential Equation with Constant Coefficients	
DAY12 DATE 29-1-18	Linear Differential Equation with Constant Coefficients	
DAY13 DATE 30-1-18	Linear Differential Equation with Constant Coefficients	
DAY14 DATE 31-1-18	<b>HOLIDAY</b>	
DAY15 DATE 1-2-18	Linear Differential Equation with Constant Coefficients	
DAY16 DATE 2-2-18	Linear Differential Equation with Constant Coefficients	
DAY17 DATE 3-2-18	Linear Differential Equation with Constant Coefficients	
DAY18 DATE 5-2-18	Linear Differential Equation with Constant Coefficients	
DAY19 DATE 6-2-18	Linear Differential Equation with Constant Coefficients	
DAY20 DATE 7-2-18	Linear Differential Equation with Constant Coefficients	
DAY21 DATE 8-2-18	Homogeneous Linear Equations	
DAY22 DATE 9-2-18	<b>ASSIGNMENT 1</b>	
DAY23 DATE 10-2-18	<b>HOLIDAY</b>	
DAY24 DATE 12-2-18	Test of Linear Differential Equation with Constant Coefficients	

DAY25 DATE 13-2-18	<b>HOLIDAY</b>	
DAY26 DATE 14-2-18	Homogeneous Linear Equations	
DAY27 DATE 15-2-18	Homogeneous Linear Equations	
DAY28 DATE 16-2-18	Homogeneous Linear Equations	
DAY29 DATE 17-2-18	Homogeneous Linear Equations	
DAY30 DATE 19-2-18	Homogeneous Linear Equations	
DAY31 DATE 20-2-18	Test of Homogeneous Linear Equations	
<b>UNIT III</b>	<b>TOPIC</b>	
	<b>THEORY</b>	<b>PRACTICAL</b>
DAY1 DATE 21-2-18	Linear Differential Equation of Second Order	
DAY2 DATE 22-2-18	Linear Differential Equation of Second Order	
DAY3 DATE 23-2-18	Linear Differential Equation of Second Order	
DAY4 DATE 24-2-18	Linear Differential Equation of Second Order	
DAY5 DATE 26-2-18	Linear Differential Equation of Second Order	
DAY6 DATE 27-2-18	Linear Differential Equation of Second Order	
DAY7 DATE 28-2-18	<b>HOLIDAY</b>	
DAY8 DATE 1-3-18	<b>HOLIDAY</b>	
DAY9 DATE 2-3-18	<b>HOLIDAY</b>	
DAY10 DATE 3-3-18	<b>HOLIDAY</b>	
DAY11 DATE 5-3-18	Linear Differential Equation of Second Order	
DAY12 DATE 6-3-18	Linear Differential Equation of Second Order	
DAY13 DATE 7-3-18	Linear Differential Equation of Second Order	
DAY14 DATE 8-3-18	Linear Differential Equation of Second Order	
DAY15 DATE 9-3-18	Linear Differential Equation of Second Order	

DAY16 DATE 10-3-18	<b>ASSIGNMENT 2</b>	
DAY 17 DATE 12-3-18	Test of Linear Differential Equation of Second Order	
<b>UNIT IV, PART-I</b>	<b>TOPIC</b>	
	<b>THEORY</b>	<b>PRACTICAL</b>
DAY1 DATE 13-3-18	Simultaneous Differential Equation	
DAY2 DATE 14-3-18	Simultaneous Differential Equation	
DAY3 DATE 15-3-18	Simultaneous Differential Equation	
DAY4 DATE 16-3-18	Simultaneous Differential Equation	
DAY5 DATE 17-3-18	Simultaneous Differential Equation	
DAY6 DATE 19-3-18	Simultaneous Differential Equation	
<b>UNIT I, PART-II</b>	<b>TOPIC</b>	
	<b>THEORY</b>	<b>PRACTICAL</b>
DAY1 DATE 20-3-18	Equations of first order but not of first degree	
DAY2 DATE 21-3-18	<b>CONDITIONAL TEST</b>	
DAY3 DATE 22-3-18	<b>CONDITIONAL TEST</b>	
DAY 4 DATE 23-3-18	<b>HOLIDAY</b>	
DAY 5 DATE 24-3-18	Equations of first order but not of first degree	
DAY6 DATE 26-3-18	Equations of first order but not of first degree	
DAY7 DATE 27-3-18	Equations of first order but not of first degree	
DAY8 DATE 28-3-18	Equations of first order but not of first degree	
DAY9 DATE 29-3-18	<b>HOLIDAY</b>	
DAY10 DATE 30-3-18	Equations of first order but not of first degree	
DAY11 DATE 31-3-18	Equations of first order but not of first degree	
DAY12 DATE 2-4-18	Equations of first order but not of first degree	

DAY13 DATE 3-4-18	Equations of first order but not of first degree	
DAY14 DATE 4-4-18	Equations of first order but not of first degree	
DAY15 DATE 5-4-18	Equations of first order but not of first degree	
DAY16 DATE 6-4-18	Equations of first order but not of first degree	
<b>UNIT IV, PART II</b>	<b>TOPIC</b>	
	<b>THEORY</b>	<b>PRACTICAL</b>
DAY1 DATE 7-4-18	Total Differential Equations	
DAY2 DATE 9-4-18	Total Differential Equations	
DAY3 DATE 10-4-18	Total Differential Equations	
DAY4 DATE 11-4-18	Total Differential Equations	
DAY5 DATE 12-4-18	Total Differential Equations	
DAY6 DATE 13-4-18	Total Differential Equations	
DAY7 DATE 14-4-18	<b>HOLIDAY</b>	
DAY8 DATE 16-4-18	Total Differential Equations	
DAY9 DATE 17-4-18	Seminar by students	
DAY10 DATE 18-4-18	<b>HOLIDAY</b>	
DAY11 DATE 19-4-18	Seminar by students	
DAY12 DATE 20-4-18	Seminar by students	

(Dr. Rachna Aggarwal)