LESSON PLAN (First Semester)
Subject: Applied Mathematics-I
Name of Faculty: Dr. PINKI
Discipline: Common

Week	DAY	Theory (Topics)
1	1	Definition of complex number, real and imaginary parts
	2	Polar and Cartesian Form and their inter conversion
	3	Conjugate of a complex number
	4	Modulus/argument of complex no.
2	1	Addition subtraction, multiplication and division of complex number.
	2	Numericals complex number
	3	Fundamental Rules of Logarithms
	4	Logarithm conversation Log to exp and vice versa
3	1	Numericals Logarithms
	2	Assignment-I
	3	Factorial
	4	Permutation, combination
4	1	Binomial theorem expansion
	2	General Term, Middle Term/ Co- eff. of xn
	3	Binomial theorem for any index
	4	Revision
1st Sessional test		
5	1	Matrices: Define/Types
	2	Addition subtraction of Matrices
	3	Multiplication of Matrices
	4	Determinants (up to 2 order) by Laplace method
6	1	Solution of equation by Cramer's Rule And Assignment-II
	2	Trigonometry: Concept of angle: measurement of angle
	3	Conversion of angles
	4	Fundamental Identities, Allied angles
7	1	Addition and subtraction formula
	2	Addition and subtraction formula numericals
	3	Transformation formula
	4	Numericals
8	1	Numericals
	2	Application: Angle of elevation/height/distance
	3	Numericals
	4	Revision
2nd Sessional test		
9	1	Point: Distance Formula
	2	Mid-Point Formula
	3	Area of Triangle
	4	Straight line: Slope of a line

10	1	Equation of straight line in various standards forms
	2	Equation of straight line in various standards forms
	3	Intersection of two straight lines, concurrency of lines
	4	Angle between two straight lines, parallel and perpendicular lines
11	1	Perpendicular distance formula,
	2	Conversion of general form of equation to the various forms
	3	Circle: General equation of a circle
	4	Centre and radius of circle
12	1	Find Standard equation of circle and centre and radius
	2	Find general equation of circle and centre and radius
	3	To find the equation of a circle, given three points lying on it
	4	To find the equation of a circle given coordinates of end points of a diameter, Assignment-III
13	1	Theoretical Introduction of MATLAB
	2	Addition and subtraction of values Trigonometric functions
	3	Addition and subtraction of values Inverse Trigonometric functions
	4	General Practice
		3rd Sessional test
14	1	Practice of Previous Question Papers
	2	Practice of Previous Question Papers
	3	Practice of Previous Question Papers
	4	Practice of Previous Question Papers
15	1	Revision
	2	Revision
	3	Revision
	4	Revision