Lesson Plan

Name of the Faculty: Neeti Jain (Theory)

Disciplines: Elect + Elex

Semester: 2nd

Subject: Mathematics

Lesson Plan Duration: 15 Weeks (From January 2018 to April 2018)

Lecture Load Per week: Theory (05)

WEEK	THEORY	
	Lecture Day	Topic
1st	1st	Discussion of Previous Paper
	2nd	Introduction of Syllabus
	3rd	Revision of General Rules of Algebra
	4th	Definition of Function
	5th	Types of Function
2nd	1st	Concept of Limits
	2nd	Problems related to four standard limits
	3rd	Definition of Differentiation
	4th	Basic Formulae
	5th	Differentiation of x^n, sin x, cos x by 1st Principle
3rd	1st	Differentiation of e^x by 1st principle
	2nd	Problems solving Class
	3rd	Practice and Revision
	4th	Differentiation of sum, product and quotient of Functions
	5th	Examples based on the above Topic
4th	1st	Examples based on the above Topic
	2nd	Class Test
	3rd	Examples based on the above Topic
	4th	Differentiaiton of Trigonometry Functions
	5th	Differentiaiton of Inverse Trigonometric Functions
5th	1st	Examples based on the above Topic
	2nd	Diiferetiation of Log Functions and Examples
	3rd	Successive Differentiation
	4th	Application of Differentiation, Rate Measures
	5th	Maxima and Minima
6th	1st	Problem Solving Class
	2nd	Test and Assignment
	3rd	Discussion with the class about the sessional performance
	4th	Revision of Differentiation Formulae
	5th	Definition of Integration with Simple Examples
7th	1st	Simple Standard Integrals and Related Problems
	2nd	Simple Standard Integrals and Related Problems
	3rd	Evaluation of Definite Integrals
	4th	Evaluation of Definite Integrals
	5th	Evaluation of $\int_0^{\pi/2} \sin^n x \, dx$, $\int_0^{\pi/2} \cos^n x \, dx$, $\int_0^{\pi/2} \sin^m x \cos^n x \, dx$

8th	1st	Problem Solving Class
	2nd	Related Problems
	3rd	Practice Questions
	4th	Applicatiopn of Integration
	5th	Evaluation of Area Under Curve
9th	1st	Related Problems
	2nd	Practice Questions
	3rd	Numerical Integration by Trapezoidal Rule
	4th	Related Problems
	5th	Simpson Rule
10th	1st	Related Problems
	2nd	Related Problems
	3rd	Class Test
	4th	Problem Solving Class
	5th	Test and Assignment
11th	1st	Discussion with the class about the sessional performance
	2nd	Definition of Differential Equation
	3rd	Definition of Order and Degree
	4th	Related Problems
	5th	Linear and Non-linear Equation
12th	1st	Revision
	2nd	Definition of Statistics
	3rd	Mean and Related Problems
	4th	Median and Related Problems
	5th	Mode and Related Problems
13th	1st	Revision
	2nd	Revision
	3rd	Measures of Dispersion
	4th	Mean Deviation and Related Problems
	5th	Median Deviation and Related Problems
14th	1st	Standard Deviation and Related Problems
	2nd	Co-efficient of Rank correlation
	3rd	Related Problems
	4th	Problem Solving Class
	5th	Test and Assignment
15th	1st	Discussion with the class about the sessional performance
	2nd	Revision
	3rd	Problem Solving Class
	4th	Problem Solving Class
	5th	Problem Solving Class