DRONACHARYA
College of Engineering

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code: Mathematics-III(MATH-201-F)

Name of Faculty with designation : Pooja Jain (Assistant Professor)

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
January	10.01.2018 Wednesday	IV-CSE-II	I	Introduction to Syllabus. Some trigonometric formulae and Important Integrations. Fourier Series: - Euler's Formulae.	………	**Assignment of 02 Ques. given**
	11.01.2018 Thursday	IV-CSE-II	I	Fourier expansion of odd and even functions.		
	12.01.2018 Friday	IV-CSE-II	I	Conditions for a Fourier expansion & Point of Discontinuity.		
	17.01.2018 Wednesday	IV-CSE-II	I	Change of interval.		
	18.01.2018 Thursday	IV-CSE-II	I	Half range sine and cosine series.		
	19.01.2018 Friday	IV-CSE-II	I	Fourier expansion of square wave, rectangular wave, saw toothed wave.		
	24.01.2018 Wednesday	IV-CSE-II	I	Fourier expansion of half and full rectified wave.		
	25.01.2018 Thursday	IV-CSE-II	III	Probability Distributions, Conditional probability.		
	01.02.2018 Thursday	IV-CSE-II	III	Baye's theorem and its applications.		
	02.02.2018 Friday	IV-CSE-II	III	Discrete and Continuous Probability Distributions.		
Feburary	07.02.2018 Wednesday	IV-CSE-II	III	Binomial Distribution and its properties. Poisson Distribution and its properties.		
	08.02.2018 Thursday	IV-CSE-II	III	Normal Distribution, Properties of Normal Distribution		
	09.02.2018 Friday	IV-CSE-II	IV	Linear Programming:-Linear Programming problems formulation. Solving linear programming problems using Graphical method.		
	12th February to 17th February 2018			**FIRST SESSIONAL EXAMINATION**		
	21.02.2018 Wednesday	IV-CSE-II	IV	Solving linear programming problems using Simplex method. Problem of Degeneracy.		

	Date			Topic		
	22.02.2018 Thursday	IV-CSE-II	IV	Solving linear programming problems using Dual simplex method.		
	23.02.2018 Friday	IV-CSE-II	IV	Artificial Variables or Big-M Method.		
	28.02.2018 Wednesday	IV-CSE-II	II	Functions of Complex Variable: - Definition, Exponential and trigonometric functions.Hyperbolic and Logarithmic functions.		
March	07.03.2018 Wednesday	IV-CSE-II	II	Limit and Continuity of a complex function. Differentiability and Analyticity of a complex function		
	08.03.2018 Thursday	IV-CSE-II	II	Cauchy- Riemann equations ,necessary and sufficient conditions for a function to be analytic		
	9.03.2018 Friday	IV-CSE-II	II	Problems on analytic function.		
	14.03.2018 Wednesday	IV-CSE-II	II	Polar form of Cauchy-Riemann equations. Harmonic function, Application to flow problems.		
	15.03.2018 Thursday	IV-CSE-II	II	Milne Thomson method. Integration of complex function, Cauchy-Integral theorem and formula		
	19th March to 24th March 2018		**SECOND SESSIONAL EXAMINATION**			
	28.03.2018 Wednesday	IV-CSE-II	II	Power series, radius and circle of convergence of power series. Taylor's and Maclaurin's series.		
	04.04.2018 Wednesday	IV-CSE-II	III	Laurent's series of complex functions. Zeros and singularities of complex functions. Residues, Residues theorem		
April	05.04.2018 Thursday	IV-CSE-II	III	Evaluation of real integrals using residues around unit circle, semi-circle.		
	11.04.2018 Wednesday	IV-CSE-II	III	Fourier Transform: - Fourier integral , Fourier transform, Problems of Fourier transform and inverse Fourier transform		
	12.04.2018 Thursday	IV-CSE-II	III	Properties of Fourier transform, Fourier transform of integrals, Convolution theorem, Fourier transform of Dirac-delta function.		
	25.04.2018 Wednesday	IV-CSE-II	I	Testing of a hypothesis ,tests of significance for large samples		
	16th April to 23rd April 2018		**Pre-University EXAMINATION**			