

DRONACHARYA

College of Engineering

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		IV-CSE-II	I	Introduction to Syllabus. Some trigonometric formulae and Important Integrations. Fourier Series: - Euler's Formulae.	Assignment of 02 Ques. given
		IV-CSE-II	I	Fourier expansion of odd and even functions.		Assignment of 02 Ques. given
		IV-CSE-II	I	Conditions for a Fourier expansion & Point of Discontinuity.		Assignment of 02 Ques. given
		IV-CSE-II	I	Change of interval.		Assignment of 02 Ques. given
		IV-CSE-II	I	Half range sine and cosine series.		Assignment of 02 Ques. given
		IV-CSE-II	I	Fourier expansion of square wave, rectangular wave, saw toothed wave. Fourier expansion of half and full rectified wave.		Assignment of 02 Ques. given
		IV-CSE-II	III	Probability Distributions, Conditional probability.		Assignment of 02 Ques. given
		IV-CSE-II	III	Baye's theorem and its applications.		Assignment of 02 Ques. given
		IV-CSE-II	III	Discrete and Continuous Probability Distributions.		Assignment of 02 Ques. given
		IV-CSE-II	III	Binomial Distribution and its properties.		Assignment of 02 Ques. given

Feburary		IV-CSE-II	III	Poisson Distribution and its properties.		Assignment of 02 Ques. given
		IV-CSE-II	III	Normal Distribution, Properties of Normal Distribution		Assignment of 02 Ques. given
		IV-CSE-II	IV	Linear Programming:-Linear Programming problems formulation. Solving linear programming problems using Graphical method.		Assignment of 02 Ques. given
		IV-CSE-II	IV	Solving linear programming problems using Simplex method.		Assignment of 02 Ques. given
		IV-CSE-II	IV	Problem of Degeneracy.		Assignment of 02 Ques. given
		IV-CSE-II	IV	Solving linear programming problems using Dual simplex method.		Assignment of 02 Ques. given
		IV-CSE-II	IV	Artificial Variables or Big-M Method.		Assignment of 02 Ques. given
		IV-CSE-II	II	Functions of Complex Variable: - Definition, Exponential and trigonometric functions.		Assignment of 02 Ques. given
		IV-CSE-II	II	Hyperbolic and Logarithmic functions. Limit and Continuity of a complex function.		Assignment of 02 Ques. given
March		IV-CSE-II	II	Differentiability and Analyticity of a complex function		Assignment of 02 Ques. given
		IV-CSE-II	II	Cauchy- Riemann equations ,necessary and sufficient conditions for a function to be analytic		Assignment of 02 Ques. given
		IV-CSE-II	II	Problems on analytic function.		Assignment of 02 Ques. given
		IV-CSE-II	II	Polar form of Cauchy-Riemann equations.		Assignment of 02 Ques. given
		IV-CSE-II	II	Integration of complex function		Assignment of 02 Ques. given
		IV-CSE-II	II	Cauchy-Integral theorem and formula		Assignment of 02 Ques. given
		IV-CSE-II	III	Power series, radius and circle of convergence of power series.		Assignment of 02 Ques. given

April		IV-CSE-II	III	Taylor's and Maclaurin's series. Laurent's series of complex functions.		Assignment of 02 Ques. given
		IV-CSE-II	III	Zeros and singularities of complex functions. Residues, Residues theorem		Assignment of 02 Ques. given
		IV-CSE-II	III	Evaluation of real integrals using residues around unit circle, semi-circle.		Assignment of 02 Ques. given
		IV-CSE-II	I	Fourier Transform: - Fourier integral , Fourier transform, Problems of Fourier transform and inverse Fourier transform		Assignment of 02 Ques. given
		IV-CSE-II	I	Properties of Fourier transform, Fourier transform of integrals		Assignment of 02 Ques. given
		IV-CSE-II	I	Convolution theorem, Fourier transform of Dirac-delta function.		Assignment of 02 Ques. given
		IV-CSE-II	IV	Testing of a hypothesis ,tests of significance for large samples		Assignment of 02 Ques. given
		IV-CSE-II	IV	Student's t-distribution. Chi-square test of goodness of fit.		Assignment of 02 Ques. given