

Course Expert: Prof. A K Nandakumaran, IISc, B'lore

Course Code: 18MAT41

Course Name: Complex Analysis, Probability and statistical Methods

Module: 01

Lecture Session Details			
Date	Day	Time	Topic
13-02-2020	THU	12:00 to 12: 50 PM	Motivation : Various Number Systems
14-02-2020	FRI	02:00 to 02:50 PM	Motivation (Continued) Solution of cubic equations Cardano's (Tartaglia) Method
17-02-2020	MON	10:00 to 10:50 AM	Introduction: Complex numbers, Algebra of Complex numbers
18-02-2020	TUE	11:00 to 11:50 AM	Introduction: Polar Co-ordinates Geometric interpretation Solvability of $z^n = z_0$ .
20-02-2020	THU	12:00 to 12: 50 PM	Solvability Continued Convergence in $\mathbb{C}$ (geometry) Complex functions - Continuity
24-02-2020	MON	10:00 to 10:50 AM	Complex functions: Differentiability Standard functions Cauchy - Riemann equations, Converse
25-02-2020	TUE	11:00 to 11:50 AM	C-R equations (Continued) Examples, $\bar{\partial}$ operator
27-02-2020	THU	12:00 to 12: 50 PM	Analytic functions, Remarks Examples, Polar form, Harmonic functions
28-02-2020	FRI	02:00 to 02:50 PM	Method 1: <del>via</del> Directly via C-R Equation Method 2: Milne-Thomson Method to construct analytic functions. Problems

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