

Science Academies Refresher Course on Analysis, February 18 to March 02, 2019

Department of Mathematical Sciences

Venue: Class room 4(ISI NE Centre)

Time table for first week (Feb 18-23, 2019)

Registration 8:45 -9:30 am on 18.02.2019

Date	9:30-10:45 am	10:45-11:15 am	11:15-12:30pm	12:30-2:00 pm	2:00 -3:15 pm	3:15 -3:30 pm	3:30-4:45 pm
18.02.2019	ABR	Tea Break	ST	Lunch Break	RPS	Tea Break	ST
19.02.2019	ABR		RPS		ABR		RPS
20.02.2019	ST		AKN		ST		AKN
21.02.2019	AKN		RPS		AKN		RPS
22.02.2019	ABR		ST		ABR		ST
23.02.2019	AKN		ABR		AKN		

Time table for Second week (Feb 25-March 02,2019)

Date	9:30-10:45 am	10:45-11:15 am	11:15-12:30pm	12:30-2:00 pm	2:00 -3:15 pm	3:15 -3:30 pm	3:30-4:45 pm
25.02.2019	GDV	Tea Break	AM	Lunch Break	GDV	Tea Break	AM
26.02.2019	AM		GDV		AM		GDV
27.02.2019	AM		GDV		AM		GDV
28.02.2019	RKS		RKS				
01.03.2019	GDV		AM		RKS		RKS
02.03.2019	RKS						

Speakers & Topics of lectures:

Sl. No.	Speaker	Topics
1.	Prof. Asit B. Raha, Retired Professor, ISI Kolkata	Set theory: Countable and uncountable sets, Cantor set, Dedekind cut, completeness of Real numbers, Sequence and series of real numbers and functions.
2.	Prof. Rudar Pada Sarkar, ISI Kolkata	metric space, definition of metric space, examples, compactness and connectedness
3.	Prof. Sundaram Thangavelu, IISC Bangalore	continuous functions, Weierstrass approximation theorem, Fourier series etc.
4.	Prof. A. K. Nanadakumaran, IISC Bangalore.	Review of linear algebra, functions of one and several real variables, Inverse and implicit function theorem
5.	Prof. Veerappa, D. Gowda, TIFR Bangalore	Lebesgue Integral: Lebesgue outer measure, measurable sets and spaces, measurable functions and approximations, Lebesgue integral of nonnegative functions and LDC theorem
6.	Prof. Adimurthi, TIFR Bangalore.	existence theorem for ordinary differential equations, the $\exp(A)$ for a $n \times n$ matrix A , define $\exp(A)$ for an operator in a Banach space.
7.	Dr. Rajesh K Srivastava, IIT Guwahati.	Lebesgue Differentiation theorem and Hardy Littlewood Maximal functions and related topics