

KERALA SCHOOL OF MATHEMATICS

Orientation/Refresher course for College Teachers

27 February - 02 March, 2014

Time Schedule

Date	9.00-10.15	10.15-10.30	10.30-11.45	11.45-12.00	12.00-1.15	1.15-2.30	2.30-3.30	3.30-3.45	3.45-4.45
27-Feb-14	GT	Hot Break	AT	Cool Break	GT	Lunch Break	Tutorial AT	Hot Break	Tutorial GT
28-Feb-14	AT		GT		AT		Tutorial GT		Tutorial AT
01-Mar-14	GT		AT		GT		Tutorial AT		Tutorial GT
02-Mar-14	AT		GT		AT		Tutorial GT		Tutorial AT

Resource Persons:

AT : Algebraic Topology

AJP : Prof. A J Parameswaran, TIFR, Mumbai

- 1: π_1 : definition, Homotopy, Examples.
- 2: VanKampen Theorem; Computation of the Fundamental groups of various spaces.
- 3: Covering Spaces: Path lifting, Homotopy lifting, Codition for arbitrary map lifting....
- 4: Invariance of Domain, Separation Theorem, Jordan curve Theorem ...
- 5: Universal covering (Existence - statement only) Relation between π_1 and fibres of covering maps.

SC : Sagnik Chakraborty, TIFR, Mumbai

Tutorial

GT : General Topology

PS : Prof. Parameswaran Sankaran, IMSc., Chennai

- Day 1: Basic notions--product spaces, connected, compactness.
 Day 2: Countability axioms and separation axioms
 Day 3: Metrizable theorems, Stone-Cech compactification
 Day 4: Complete metric spaces and Baire spaces

PC : Prateep Chakraborty, IMSc., Chennai

Tutorial