Department of Mathematics, IIT Bombay
Spring 2015

B.Tech. Core Courses

Course No. & Course Name	Instructors	L T P C
MA 105 Calculus (Backlog)	V.D. Sharma	3 1 0 8
MA 106 Linear Algebra	M. K. Keshari (Instructor-in-charge), Rekha Santhanam, Ananthnarayan H. (for two divisions)	3 1 0 4
MA 108 Differential Equations I	M. K. Keshari (Instructor-in-charge), Rekha Santhanam (two divisions each)	3 1 0 4
MA 214 Introduction to Numerical Analysis	S. Baskar (both the divisions)	3 1 0 8

M.Sc. (Mathematics) Courses

* ⇒ Also a B.Tech. (Minor in Mathematics) Course

MA 406 General Topology*	S. S. Sane	3 1 0 8
MA 408 Measure Theory	I. K. Rana	3 1 0 8
MA 410 Multivariable Calculus	Akhil Ranjan	2 1 0 6
MA 412 Complex Analysis	Prachi Mahajan	3 1 0 8
MA 414 Algebra I	T. N. Shorey	3 1 0 8
MA 510 Introduction to Algebraic Geometry	Preeti Raman	2 1 0 6
MA 524 Algebraic Number Theory	S. M. Garge	2 1 0 6
MA 526 Commutative Algebra	N. K. Singhi	2 1 0 6
MA 534 Modern Theory of Partial Differential Equations	Neela Nataraj	2 1 0 6
MA 540 Numerical Methods for Partial Differential Equations	A.K. Pani	2 1 0 6
MA 5102 Basic Algebraic Topology	A. Athavale	2 1 0 6
MA 5106 Introduction to Fourier Analysis*	Santanu Dey	2 1 0 6
MA 5108 Lie Groups and Lie Algebras	S. G. Dani	2 1 0 6
SI 416 Optimization (also for ASI 1st Yr.)	M. K. Srinivasan	2 1 0 6
SI 527 Introduction to Derivative Pricing*	A. Subramanyam	2 1 0 6

M. Sc. (ASI) Courses

* ⇒ Also a B.Tech. (Minor in Statistics) Course

SI 402 Statistical Inference	Rajani R. Joshi	3 1 0 8
SI 404 Applied Stochastic Processes*	K. Suresh Kumar	2 1 0 6
SI 416 Optimization (also for Math. 2nd Yr)	M. K. Srinivasan	2 1 0 6
SI 418 Advanced Programming & Unix Environment (Lab)	S. Sivaramakrishnan	0 0 3 3
SI 408 Data Structures	N. Balachandran	3 1 0 8
SI 422 Regression Analysis (Theory +Lab)	Radhendushka Srivastava	3 0 2 8
SI 509 Time Series Analysis	Koushik Saha	2 1 0 6
SI 526 Experimental Designs	Ashish Das	2 1 0 6
SI 534 Nonparametric Statistics	P. Vellaisamy	2 1 0 6
SI 513 Theory of Sampling	Radhendushka Srivastava	2 1 0 6
SI 527 Introduction to Derivative Pricing*	A. Subramanyam	2 1 0 6

Ph.D. Courses

MA 812 Algebra II	Tony Joseph P.	3 0 0 6
MA 814 Complex Analysis	G. K. Srinivasan	3 0 0 6
MA 816 Algebraic Topology	A.R. Shastri	3 0 0 6
MA 818 Partial Differential Equations II	Neela Natraj and Sivaji Ganesh Sista	3 0 0 6
MA 820 Stochastic Processes	P. Vellaisamy	3 0 0 6
MA 824 Functional Analysis	Rekha P. Kulkarni	3 0 0 6
MA 844 Topics in Analysis II	M.S. Raghunathan	3 0 0 6
MA 848 Topics in Geometry II	Swapneel Mahajan	3 0 0 6
MA 860 Topics in Statistics II	Siuli Mukhopadhyay	3 0 0 6