

School of Mathematics
Course list-Vasanth 2024

Sl. No.	Course Code	Course Name	Assigned Faculty Name (s)
First year courses			
1.	MAT121	Matrices and Calculus (4 credits)	Dr. Md. Ramiz Reza, Dr. Sarbeswar Pal
2.	IDC121	Mathematical Tools II	Dr. Dhanya Rajendran, Prof. Utpal Manna
Second year course			
3.	MAT221	Introduction to Probability	Dr. Srilakshmi K, Dr. Samya Kumar Ray
Third year courses			
4.	MAT/MSM321	Complex Analysis (Minor- 4 th year) (Core for BS-MS, i2M, MSc, IPHD)	Dr. Shrihari Sridharan
5.	MAT/MSM322	Fields, Modules and Algebras (Core for BS-MS, MSc, IPHD)	Dr. Geetha T
6.	MAT/MSM323	General Topology (Minor- 3 rd year) (Core for BS-MS, i2M, MSc, IPHD)	Dr. Sachindranath Jayaraman
7.	MAT/MSM324	Theory of Ordinary Differential Equations (Core for BS-MS, i2M, MSc, IPHD)	Prof. M. P. Rajan
8.	MAT/MSM325	Probability Theory and Stochastic Processes (Core for BS-MS, i2M, MSc, IPHD)	Dr. Priyanka Majumdar
9.	DSC3202/DSC322/I2M321	Scientific Computing (4 credits) (Core for i2M, Elective for MSc, IPHD (3credits))	Dr. Amal Medhi
10.	I2M322/MAT3202	Mathematical Modelling (Core for i2M, Elective for MSc, IPHD)	Dr. K. Sudarshan Kumar
Fourth year courses			
11.	MAT/MSM421	Functional Analysis (Core for BS-MS.,i2M, MSc, IPHD)	Prof. B. Rajeev
12.	MAT422/MAT4212	Algebraic Topology (Core for BS-MS, IPHD, Elective for MSc)	Dr. Viji Thomas
13.	MAT/MSM423/MAT6203	Differential Geometry (Core for BS-MS, MSc, IPHD, Stream for PhD)	Dr. Saikat Chatterjee

14.	MAT424/MAT4214	Number Theory and Cryptography (Core for BS-MS, IPHD, Elective for MSc)	Dr. P. Devaraj
15.	I2M421/MAT4201	Variational Methods and Control Theory (Core for i2M, Elective for MSc, IPHD)	Prof. Utpal Manna, Dr. Dhanya Rajendran
16.	I2M422/MAT4202	High Performance Computing (Core for i2M, Elective for MSc, IPHD)	Dr. Nagaiah Chamakuri
17.	I2M423/MAT4205/6205	Finite Element Methods (Core for i2M, stream for PhD, elective for BS-MS, MSc, and IPHD)	Dr. Asha Dond
18.	MAT6201	Topics in Analysis II (Stream for PhD)	Dr. Md. Ramiz Reza/ Dr. P. Devaraj/ Dr. K. R. Arun
19.	MAT4204/6204	Topics in Applied Mathematics (Stream for PhD, Elective for MSc, IPHD)	Dr. K. R. Arun
20.	MAT4226/6202	Topics in Algebra II (Stream for PhD and IPHD)	Dr. Viji Thomas, Dr. Sarbeswar Pal, Dr. Saikat Chatterjee, Dr. Geetha T, Dr. Srilakshmi K
21.	DSC4101	Survival Analysis (Elective for i2 M, BSMS, MSc, IPHD)	Dr. Shyamal Ghosh
22.	MAT4223/6223	Approximation Theory (Elective for i2 M, BS-MS, MSc and IPHD)	Dr. Shrihari Sridharan
23.	MAT4224/6224	Symplectic Geometry and Integrable systems (Elective for i2 M, BS-MS, MSc, IPHD, PhD)	Dr. Sarbeswar Pal
24.	MAT620	Research Methodology (Ph.D only, non credit course)	Dr. Sheetal Dharmatti
25.	MAT4125/6125	Some topics in Euclidean Harmonic Analysis (Elective for i2 M, BS-MS, MSc, IPHD, PhD)	Dr. Samya Kumar Ray