

Course list- School of Mathematics- Varsha 2022

Course Code	Course name	Faculty name
MAT111	Single Variable Calculus	Prof. M. P. Rajan
MAT211	Multivariable Calculus	Prof. Utpal Manna
MAT311/MSM311	Real Analysis (Mandatory Course for: BS-MS Maths III Year, Maths Minor III Year, IPhD Maths I Year, i ² Math III Year, MSc Maths I Year)	Dr. Mohammed Ramiz
MAT312/MSM312	Theory of Groups and Rings (Mandatory Course for: BS-MS Maths III Year, IPhD Maths I Year, i ² Maths III Year, MSc Maths I Year, Maths Minor V Year)	Dr. Sarbeswar Pal
MAT313/MSM313	Linear Algebra (Mandatory Course for: BS-MS Maths III Year, Maths Minor IV Year, IPhD Maths I Year, i ² Maths III Year, MSc Maths I Year)	Dr. Saikat Chatterjee
MAT314/MSM314	Numerical Analysis (Mandatory Course for: BS-MS Maths III Year, IPhD Maths I Year, i ² Maths III Year, MSc Maths I Year)	Dr. Sudarshan Kumar

MAT315/MSM315/	<p>Mathematical Statistics + Lab (4 credit course)</p> <p>(Mandatory Course for: BS-MS Maths III Year, IPhD Maths I Year, i^2 Maths III Year, MSc Maths I Year)</p>	Prof. Somasekharan Pillai
MAT3101/511B	<p>Discrete Mathematics (2 credits)</p> <p>Elective Course for: IPhD Maths I Year, BS-MS Maths V Year)</p>	Dr. Srilakshmi.K
MAT3102/511B	<p>Optimisation Techniques (2 credits)</p> <p>Elective Course for: IPhD Maths I Year, BS-MS Maths V Year)</p>	Dr. Dhanya Rajendran
i^2 M315/MAT511B/ AOE3106	<p>Machine Learning</p> <p>(Mandatory Course for: i^2 Math III Year,</p> <p>Elective Course for: BS-MS Math V Year) (Open Elective for MSc 2nd year)</p>	Dr. Nagaiah Chamakuri
MAT411/MSM411	<p>Measure Theory</p> <p>(Mandatory Course for: BS-MS Math IV Year Math, IPhD Math II Year, MSc Math II Year)</p>	Dr.Sachindranath Jayaraman

<p>MAT412/6102/ MSM4102</p>	<p>Commutative Algebra (3003)</p> <p>(Mandatory Course for: BS-MS Math IV Year, IPhD II Year;</p> <p>Elective Course for: MSc Maths II Year; Stream Course for: PhD Math I Year)</p>	<p>Dr.Viji Z. Thomas</p>
<p>MAT/MSM413/6103</p>	<p>Analysis on Manifolds</p> <p>(Mandatory Course for: BS-MS Math IV Year, IPhD II Year, MSc Math II Year;</p> <p>Stream Course for: PhD Math I Year)</p>	<p>Dr.Shrihari Sridharan</p>
<p>MAT/MSM414/6104</p>	<p>Partial Differential Equations</p> <p>(Mandatory Course for: BS-MS Math IV Year, IPhD Math II Year, MSc Math II Year;</p> <p>Stream Course for: PhD Math I Year)</p>	<p>Dr. Arun K. R</p>
<p>MAT415/ MSM4105</p>	<p>Programming and Data Structures (Mandatory Course for: BS-MS Math IV Year, IPhD Math II Year), Elective Course for: MSc Math II Year)</p>	<p>To be announced later</p>

i2M412/ i2M 4102/ MAT511B/6105	<p>Numerical solutions of Differential Equations</p> <p>(Elective Course for: IPhD Math II Year, MSc Math II Year, BS-MS Math V Year;</p> <p>Stream Course for: PhD Math I Year)</p>	Dr. Dond Asha Kisan
MAT4118/ 6118/511B	<p>Finite Frames</p> <p>(Elective Course for: MSc Math II Year and IPhD Math II Year and PhD Math I Year)</p>	Dr.Devaraj P
MAT4119/6119/ 511B	<p>Control Theory</p> <p>(Elective Course for: MSc Math II Year, IPhD Math II Year and PhD Math I Year, BS-MS Math V Year)</p>	Dr.Sheetal Dharmatti
MAT6101/511B	<p>Topics in Analysis I</p> <p>Stream Course for PhD Math I Year, BS-MS Math V Year</p>	Dr.Shrihari Sridharan, Dr Dhanya Rajendran