

**S1 Int. MSc Mathematics with minor in Data Science**

Code	Title	L-T-P	Cr	ES
18MAT107	Single Variable Calculus	3 1 0	4	G
18PHY105	Introduction to Mechanics	3 1 0	4	E
18MAT108	Vectors and Geometry	3 1 0	4	H
18ENG101	Communicative English	2 0 2	3	A
18CSA102	Introduction to Programming 1	3 0 2	4	D
18SAN101/18MAL	Sanskrit/ Malayalam	1 0 2	2	B
18CUL101	Cultural Education 1	2 0 0	2	F
18MAT181	Mathematics Lab 1	0 0 2	1	L1

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**S3 Int. MSc Mathematics with minor in Data Science**

Code	Title	L-T-P	Cr	ES
18MAT209	Linear Algebra 1	3 1 0	4	B
18MAT210	Transforms & PDE	3 1 0	4	A
18MAT205	Introduction to Probability and Statistics	3 1 0	4	D
18CSA671	Data Structures & Algorithms	3 1 0	4	C
18ENV300	Environmental Science and sustainability	3 0 0	3	H
18MAT283	Computing using R (Lab 1)	0 0 2	1	L1
18MAT284	Mathematics Lab 3	0 0 2	1	L2
18AVP201	Amrita Value Programme 1	1 0 0	1	F
18SSK201	Life Skills 1	1 0 2	2	G

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**S5 Int M.Sc Mathematics/ Physics**

Code	Title	L-T-P	Cr	ES
15MAT234	Numerical Methods	3 1 0	4	D
16MAT326	Introduction to Real Analysis	3 1 0	4	B
16PHY305	Intermediate Electrodynamics	3 1 0	4	C
16PHY306	Relativity and Modern Physics	3 1 0	4	E
16BUS306	Fundamentals of Management	2 0 0	2	A
16MAT380	MATLAB	0 0 2	1	L1
16PHY391	Physics Seminar	0 0 2	1	P1
16MPJ390	Live in Lab.@ / Open Elective B*	3 0 0	3	J
15SSK301	Life Skills III	1 0 2	2	G

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**S7 Int M.Sc Mathematics**

Code	Title	L-T-P	Cr	ES
15MAT501	Advanced Algebra	4 0 0	4	A
15MAT502	Advanced Real Analysis	4 0 0	4	B
15MAT504	Ordinary Differential Equations	4 0 0	4	D
15MAT511	Advanced Complex Analysis	4 0 0	4	C
	*Elective I	3 0 0	3	E

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\*Elective I - 15MAT637 Linear Algebra and its applications

**S1 M.Sc Mathemat**

Code	Title	L-T-P	Cr	ES
15MAT501	Advanced Algebra	4 0 0	4	A
15MAT502	Advanced Real Analysis	4 0 0	4	B
15MAT504	Ordinary Differential Equations	4 0 0	4	D
15MAT511	Advanced Complex Analysis	4 0 0	4	C
	*Elective I	3 0 0	3	E
15CUL501	Cultural Education	2 0 0	P/F	F

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\*Elective I - 15MAT637 Linear Algebra and its applications

### S9 Int M.Sc Mathematics

Code	Title	L-T-P	Cr	ES
12MAT500	Differential Geometry	3 0 0	3	D
12MAT512	Functional Analysis	4 0 0	4	B
12MAT513	Theory of Partial Differential Equations	3 0 0	3	C
12MAT520	Advanced Algebra	4 0 0	4	A
	*Elective I	3 0 0	3	L

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\*Elective I - 12MAT554 Stochastic Process

Code	Title	L-T-P	Cr	ES
15MAT605	Differential Geometry	4 0 0	4	D
15MAT512	Functional analysis	4 0 0	4	B
15MAT514	Partial Differential Equations	4 0 0	4	C
15MAT501	Advanced Algebra	4 0 0	4	A
	*Elective III	3 0 0	3	L

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\*Elective III - 15MAT652 Random Process