

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Mathematics

Departmental Teaching and Evaluation Scheme

Two - Years PG Programme

Department/Subject Specific Core or Major (DSC)
(as per NEP-2020 Guidelines)

Mathematics

M. Sc. I: Semester-I & II

Sr. No.	Course Abbr.	Course code	Course Name	Teaching Scheme Hours/week		Examination Scheme and Marks				Course Credits
				TH	PR	ESE	CIE	PR	Marks	
Semester-VII										
1	DSC-I	DSC13MAT11	Modern Algebra	4	-	80	20	-	100	4
2	DSC-II	DSC13MAT12	Ordinary Differential Equation	4	-	80	20	-	100	4
3	DSC-III	DSC13MAT13	Measure and Integration	4	-	80	20	-	100	4
4	DSC-IV	DSC13MAT14	Numerical Analysis-I	2	-	40	10	-	50	2
5	DSE-I	DSE13MAT11	Operations Research	4		80	20	-	100	4
		DSE13MAT12	Introduction to Data Science							
		DSE13MAT13	Dynamical Systems-I							
6	RMD-I	RMD13MAT11	Research Methodology	4	-	80	20	-	100	4
Semester –I Total				22	-	440	110	-	550	22
Semester-VIII										
1	DSC-V	DSC13MAT21	Linear Algebra	4	-	80	20	-	100	4
2	DSC-VI	DSC13MAT22	General Topology	4	-	80	20	-	100	4
3	DSC-VII	DSC13MAT23	Advanced Calculus	4	-	80	20	-	100	4
4	DSC-VIII	DSC13MAT24	Numerical Analysis-II	2	-	40	10	-	50	2
5	DSE-II	DSE13MAT21	Number Theory	4	-	80	20	-	100	4
		DSE13MAT22	Fuzzy Mathematics-I	4	-	80	20	-	100	4
		DSE13MAT23	Dynamical Systems-II	4	-	80	20	-	100	4
6	OJT	OJT13MAT21	On Job Training		4			100	100	4
Semester –II Total				18	04	360	90	100	550	22
Total (Sem. I & II)				40	04	800	200	100	1100	44

Department of Mathematics
Departmental Teaching and Evaluation Scheme
M. Sc. I: Semester-III & IV

Sr. No.	Course Abbr.	Course code	Course Name	Teaching Scheme Hours/week		Examination Scheme and Marks				Course Credits
				TH	PR	ESE	CIE	PR	Marks	
Semester-VII										
1	DSC-IX	DSC13MAT31	Functional Analysis	4	-	80	20	-	100	4
2	DSC-X	DSC13MAT32	Classical Mechanics	4	-	80	20	-	100	4
3	DSC-XI	DSC13MAT33	Complex Analysis	4	-	80	20	-	100	4
4	DSC-XII	DSC13MAT34	Advanced Discrete Mathematics	2	-	40	10	-	50	2
5	DSE-III	DSE13MAT31	Lattice Theory	4	-	80	20	-	100	4
		DSE13MAT32	Fuzzy Mathematics-II							
		DSE13MAT33	Commutative Algebra							
6	RP-I	RPR13MAT11	Research Project	-	4	-	-	100	100	4
Semester –III Total				22	-	360	90	100	550	22
Semester-VIII										
1	DSC-XIII	DSC13MAT41	Field Theory	4	-	80	20	-	100	4
2	DSC-XIV	DSC13MAT42	Integral Equation	4	-	80	20	-	100	4
3	DSC-XV	DSC13MAT43	Partial Differential Equations	4	-	80	20	-	100	4
4	DSE-IV	DSE13MAT41	Combinatorics	4	-	80	20	-	100	4
		DSE13MAT42	Algebraic Number Theory							
		DSE13MAT43	Fractional Differential Equation							
5	RP-II	RPR13MAT41	Research Project		6			150	150	6
Semester –IV Total				16	06	320	80	150	550	22
Total (Sem. III & IV)				38	10	680	170	250	1100	44

Abbreviations: TH-Theory, PR-Practical, PRO- Project, ESE- End Semester Examination, CIE-Continuous Internal Examination

Note:

1. Passing percentage will be 40%
2. Separate passing for each Head - ESE, CIE and Practicals