

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Physics

Departmental Teaching and Evaluation scheme

One/Two- Years PG Programme

Department/Subject Specific Core or Major (DSC)

(as per NEP-2020 Guidelines)

Physics

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-I										
1	DSC-I	DSC12PHY11	Mathematical Physics	4	-	80	20	-	100	4
2	DSC-II	DSC12PHY12	Classical Mechanics	4	-	80	20	-	100	4
3	DSE-I	DSE12PHY11	Semiconductor Physics	4	-	80	20	-	100	4
		DSE12PHY12	Imperfection in Crystals							
4	RMD	RMD12PHY11	Research Methodology	4	-	80	20	-	100	4
5	DSC-PR-I	DSC12PHY19	Practical Lab - I	-	12	-	-	150	150	6
Semester –I Total				16	12	320	80	150	550	22
Semester-II										
1	DSC-III	DSC12PHY21	Quantum Mechanics	4	-	80	20	-	100	4
2	DSC-IV	DSC12PHY22	Condensed Matter Physics	4	-	80	20	-	100	4
3	DSE-II	DSE12PHY21	Semiconductor Devices	4	-	80	20	-	100	4
		DSE12PHY22	Properties of Material							
4	DSC-PR-II	DSC12PHY29	Practical Lab – II	-	12	-	-	150	150	6
5	FPR/OJT	FPR12PHY21	Field Project	-	4			100	100	4
Semester –II Total				12	16	240	60	250	550	22
Total Sem I & II				28	28	560	140	400	1100	44

Department of Physics
Departmental Teaching and Evaluation scheme
Physics
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-III										
1	DSC-V	DSC12PHY31	Statistical Mechanics	4	-	80	20	-	100	4
2	DSC-VI	DSC12PHY32	Atomic and Molecular Physics	4	-	80	20	-	100	4
3	DSE-III	DSE12PHY31	Thin Solid Films: Deposition and Properties	4	-	80	20	-	100	4
		DSE12PHY32	Special Materials							
4	DSC-PR-III	DSC12PHY39	Practical Lab – III	-	12	-	-	150	150	6
5	RPR-I	RPR12PHY39	Research Project	-	08	-	-	100	100	4
Semester –III Total				12	20	240	60	250	550	22
Semester-IV										
1	DSC-VII	DSC12PHY41	Electrodynamics	4	-	80	20	-	100	4
2	DSC-VIII	DSC12PHY42	Nuclear and Particle Physics	4	-	80	20	-	100	4
3	DSE-IV	DSE12PHY41	Physical Properties of Solids	4	-	80	20	-	100	4
		DSE12PHY42	Nanostructured Materials							
4	DSC-PR-IV	DSC12PHY49	Practical Lab – IV	-	08	-	-	100	100	4
5	RPR-II	RPR12PHY49	Research Project	-	12	-	-	150	150	6
Semester –IV Total				16	20	240	60	250	550	22
Total Sem III & IV				28	40	480	120	500	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