

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Chemistry

Departmental Teaching and Evaluation Scheme

Two - Years PG Programme

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

Inorganic Chemistry 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	DSC15CHE11	Inorganic & Organic Chemistry	4	-	80	20	-	100	4
2	DSC-II	DSC15CHE12	Physical & Analytical Chemistry	4	-	80	20	-	100	4
3	DSE-I	DSE15CHE11	Inorganic Chemistry	4	-	80	20	-	100	4
		DSE15CHE12	Organic Chemistry							
		DSE15CHE13	Physical Chemistry							
		DSE15CHE14	Analytical Chemistry							
4	RMD	RMD15CHE11	Research Methodology	4	-	80	20	-	100	4
5	DSC-PR-I	DSC15CHE19	Chemistry Lab-I	-	12		-	150	150	6
Semester-I Total				16	12	320	80	150	550	22
Semester-II										
1	DSC-III	DSC15CHE21	Inorganic & Organic Chemistry	4	-	80	20	-	100	4
2	DSC-IV	DSC15CHE22	Physical & Analytical Chemistry	4	-	80	20	-	100	4
3	DSE-II	DSE15CHE21	Inorganic Chemistry	4	-	80	20	-	100	4
		DSE15CHE22	Organic Chemistry							
		DSE15CHE23	Physical Chemistry							
		DSE15CHE24	Analytical Chemistry							
4	DSC-PR-II	DSC15CHE29	Chemistry Lab-II	-	12	-	-	150	150	6
5	FPR/OJT	FPR15CHE21	Field Project	-	4	-	-	-	100	4
		OJT15CHE21	On Job Training							
Semester-II Total				12	16	240	60	100	550	22
Total (Sem. I & II)				28	28	560	140	250	1100	44

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Inorganic Chemistry
M. Sc. II: 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	DSC15CHE31	Inorganic Chemical Spectroscopy	4	-	80	20	-	100	4
2	DSC-VI	DSC15CHE32	Coordination Chemistry- I	4	-	80	20	-	100	4
3	DSE-III	DSE15CHE31	Material Science	4	-	80	20	-	100	4
		DSE15CHE32	Nuclear Chemistry							
4	DSC-PR-III	DSC15CHE39	Chemistry Lab-III	-	12		-	150	150	6
5	RPR-I	RPR15CHE31	Research Project	-	4	-	-	-	100	4
Semester-III Total				12	16	240	60	150	550	22
Semester-IV										
1	DSC-VII	DSC15CHE41	Instrumental Techniques	4	-	80	20	-	100	4
2	DSC-VIII	DSC15CHE42	Coordination Chemistry- II	4	-	80	20	-	100	4
3	DSE-IV	DSE15CHE41	Inorganic Nanomaterials	4	-	80	20	-	100	4
		DSE15CHE42	Energy and Environmental Chemistry							
7	DSC-PR-IV	DSC15CHE49	Chemistry Lab-IV	-	4	-	-	100	100	4
5	RPR-II	RPR15CHE41	Research Project	-	6	-	-	-	150	6
Semester-IV Total				12	10	240	60	100	550	22
Total (Sem. I & II)				24	26	480	120	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