

# Vivekanand College, Kolhapur (Empowered Autonomous)

## PG Department of Computer Science

### Departmental Teaching and Evaluation Scheme

Two - Years PG Programme

(As per NEP-2020 Guidelines)

Computer Science

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	
<b>Semester-I</b>										
1	DSC-I	DSC19CSC11	Problem Solving using Python	4	-	80	20	-	100	4
2	DSC-II	DSC19CSC12	Advanced Database Techniques	4	-	80	20	-	100	4
3	DSE-I	DSE19CSC11	Design and Analysis of Algorithms	4	-	80	20	-	100	4
		DSE19CSC12	Theory of Computer Science							
		DSE19CSC13	Subject relevant MOOC (NPTEL)							
		DSE19CSC14	Subject relevant MOOC (Swayam)							
4	RMD	RMD19CSC11	Research Methodology	4	-	80	20	-	100	4
5	DSC-PR-I	DSC19CSC19	Computer Science Lab-I	-	12	-	-	150	150	6
<b>Semester-I Total</b>				<b>16</b>	<b>12</b>	<b>320</b>	<b>80</b>	<b>150</b>	<b>550</b>	<b>22</b>
<b>Semester-II</b>										
1	DSC-III	DSC19CSC21	Advanced Java Programming	4	-	80	20	-	100	4
2	DSC-IV	DSC19CSC22	Digital Image Processing	4	-	80	20	-	100	4
3	DSE-II	DSE19CSC21	Data Mining and Data Warehousing	4	-	80	20	-	100	4
		DSE19CSC22	Embedded and IoT Technology							
		DSE19CSC23	Subject relevant MOOC (NPTEL)							
		DSE19CSC24	Subject relevant MOOC (Swayam)							
4	DSC-PR-II	DSC19CSC29	Computer Science Lab-II	-	12	-	-	150	150	6
5	FPR/OJT	FPR19CSC21	Field Project	-	4	-	-	-	100	4
		OJT19CSC21	On Job Training							
<b>Semester-II Total</b>				<b>12</b>	<b>16</b>	<b>240</b>	<b>60</b>	<b>150</b>	<b>550</b>	<b>22</b>
<b>Total (Sem. I &amp; II)</b>				<b>28</b>	<b>28</b>	<b>560</b>	<b>140</b>	<b>300</b>	<b>1100</b>	<b>44</b>

**Computer Science**  
**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	
<b>Semester-III</b>										
1	DSC-V	DSC19CSC31	Android Application Development	4	-	80	20	-	100	4
2	DSC-VI	DSC19CSC32	Artificial Intelligence	4	-	80	20	-	100	4
3	DSE-III	DSE19CSC31	Cyber Security	4	-	80	20	-	100	4
		DSE19CSC32	Cloud Computing							
		DSE19CSC33	Human Computer Interaction							
4	DSC-PR-III	DSC19CSC39	Computer Science Lab-III	-	12	-	-	150	150	6
5	RPR-I	RPR19CSC31	Research Project	-	4	-	-	-	100	4
<b>Semester-III Total</b>				<b>12</b>	<b>16</b>	<b>240</b>	<b>60</b>	<b>150</b>	<b>550</b>	<b>22</b>
<b>Semester-IV</b>										
1	DSC-VII	DSC19CSC41	Software Project Management	4	-	80	20	-	100	4
2	DSC-VIII	DSC19CSC42	Natural Language Processing	4	-	80	20	-	100	4
3	DSC-IX	DSC19CSC43	Cryptography and Network Security	4	-	80	20	-	100	4
4	DSE-IV	DSE19CSC41	Remote Sensing and GIS	4	-	80	20	-	100	4
		DSE19CSC42	Decision Support Systems							
		DSE19CSC43	Python for Data Analytics							
5	RPR-II	RPR19CSC41	Research Project	-	6	-	-	-	150	6
<b>Semester-IV Total</b>				<b>12</b>	<b>10</b>	<b>240</b>	<b>60</b>	<b>100</b>	<b>550</b>	<b>22</b>
<b>Total (Sem. I &amp; II)</b>				<b>24</b>	<b>26</b>	<b>480</b>	<b>120</b>	<b>250</b>	<b>1100</b>	<b>44</b>

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