

# Vivekanand College, Kolhapur (Empowered Autonomous)

## Department of B.Sc. Biotechnology Entire Course Structure under Three- Years UG Program Department/Subject Specific Core or Major (DSC) (as per NEP-2020 guidelines)

- Title:** Three Years UG degree in B.Sc. Biotechnology entire
- Year of implementation:** academic year 2023-24 onwards
- Examination pattern:** semester wise for Theory and Practicals
- Structure of program:**

### B.Sc. Biotechnology entire-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	DSC07BTE11	Biotechnology-I (Biotechnology for human welfare-I)	2	-	40	10	-	50	2
2	DSC-II	DSC07BTE12	Biotechnology-II (Biochemistry-I)	2	-	40	10	-	50	2
3	MIN-I	MIN07BTE11	Microbiology-I (Introduction to Microbial world)	2	-	40	10	-	50	2
4	MIN-II	MIN07BTE12	Microbiology-II (Techniques in Microbiology)	2	-	40	10	-	50	2
5	OEC-I	OEC07BTE11	(Bio-Instrumentation-I)	2	-	40	10	-	50	2
6	OEC-II	OEC07BTE12	(Plant Sciences)	2	-	40	10	-	50	2
7	AEC-I	AEC06ENG11	Business Communication-I	2	-	40	10	-	50	2
8	IKS-I	IKS07GEC11	Indian Knowledge System	2	-	25	-	-	25	2
9	DSC-PR-I	DSC07BTE19	Techniques in Biochemistry	-	4	-	-	25	25	2
10	MIN-PR-I	MIN07BTE19	Lab exercises in Microbiology	-	4	-	-	25	25	2
11	OEC-PR-I	OEC07BTE19	Techniques in Bioinstrumentation	-	4	-	-	25	25	2
<b>Semester –I Total</b>				<b>16</b>	<b>12</b>	<b>305</b>	<b>70</b>	<b>75</b>	<b>450</b>	<b>22</b>
Semester-II										
1	DSC-III	DSC07BTE21	Biotechnology -III (Biotechnology for human welfare-II)	2	-	40	10	-	50	2
2	DSC-IV	DSC07BTE22	Biotechnology-IV (Biochemistry-I)	2	-	40	10	-	50	2
3	MIN-III	MIN07BTE21	Microbiology-III (Bacterial Cytology and Cultivation)	2	-	40	10	-	50	2
4	MIN-IV	MIN07BTE22	Microbiology-IV (Virology)	2	-	40	10	-	50	2
5	OEC-III	OEC07BTE21	(Ecology)	2	-	40	10	-	50	2
6	OEC-IV	OEC07BTE22	(Animal Sciences)	2	-	40	10	-	50	2
7	AEC-II	AEC06ENG21	Business Communication-II	2	-	40	10	-	50	2

8	VSC-I	VSC07BTE21	Basics in Cell biology	-	4	-	-	25	25	2	
9	DSC-PR-II	DSC07BTE29	Techniques in Biotechnology	-	4	-	-	25	25	2	
10	MIN-PR-II	MIN07BTE29	Techniques in Bacterial Cytology Virology-	-	4	-	-	25	25	2	
11	OEC-PR-II	OEC07BTE292	Techniques in Plant &Animal Sciences	-	4	-	-	25	25	2	
<b>Semester –II Total</b>					<b>14</b>	<b>16</b>	<b>280</b>	<b>70</b>	<b>100</b>	<b>450</b>	<b>22</b>
<b>Cumulative Total (1<sup>st</sup> Year)</b>					<b>30</b>	<b>28</b>	<b>585</b>	<b>140</b>	<b>175</b>	<b>900</b>	<b>44</b>

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

Note: Minimum passing for 10 marks Internal evaluation = 04 marks  
Minimum passing for 40 marks Theory paper = 14 marks  
Minimum passing for 25 marks Practical = 09 marks  
Minimum passing for 50 marks Practical/FP/OJT = 18 marks  
Minimum passing for 100 marks Practical/FP = 35 marks

Passing percentage for Democracy, Election and Good Governance (DEGG) and Environmental Studies papers should be 40%

**Separate passing for each Head - ESE, CIE and Practicals**