



Shivaji University, Kolhapur

Choice Based Credit System with Multiple Entry and

Multiple Exit options as per NEP-2020

Bachelor of Science (B. Sc.) Programme Structure

Under Faculty of Science & Technology

(To be implemented from Academic Year 2022-23)

CBCS with MEME Options as per NEP-2020 to be implemented from 2022-23 onwards

R. B.Sc. 3:(A) (i) Structure of B.Sc. Programme (Semester I & II)

SEMESTER-I(Duration-6 Months)																
Sr. No.	Course (Subject) Title	TEACHING SCHEME						EXAMINATION SCHEME								
		THEORY			PRACTICAL			Internal		THEORY				PRACTICAL		
		Credits	No. of lectures	Hours	Credits	No. of lectures	Hours	Max	Min	Hours	Max	Total Marks	Min	Hours	Max	Min
1	DSC-A	2	5	4	2	4	3.2	10	4	2	40	80	28	PRACTICAL EXAMINATION IS ANNUAL		
2	DSC-A	2						10	4	2	40					
3	DSC-A	2	5	4	2	4	3.2	10	4	2	40	80	28			
4	DSC-A	2						10	4	2	40					
5	DSC-A	2	5	4	2	4	3.2	10	4	2	40	80	28			
6	DSC-A	2						10	4	2	40					
7	DSC-A	2	5	4	2	4	3.2	10	4	2	40	80	28			
8	DSC-A	2						10	4	2	40					
9	AECC-A	4	4	3.2	----	----	----	10	4	2	40	50	18			
10	SEC-I (VBC-I) Compulsory	2	Election, Democracy & Good Governance (On-line & Self-Study Mode)			----	----	1	50	50	18					
Total		22	24	19.2	8	16	12.8			-	500					

SEMESTER-II (Duration-6 Months)

Sr. No.	Course (Subject) Title	TEACHING SCHEME							EXAMINATION SCHEME							
		THEORY			PRACTICAL				THEORY				PRACTICAL			
		Credits	No. of lectures	Hours	Credits	No. of lectures	Hours	Internal		University				Hours	Max Marks	Min Marks
								Max Marks	Min Marks	Hours	Max Marks	Total Marks	Min Marks			
1	DSC-B	2	5	4	2	4	3.2	10	4	2	40	80	28	As per BOS Guide lines	50	18
2	DSC-B	2						10	4	2	40					
3	DSC-B	2	5	4	2	4	3.2	10	4	2	40	80	28		50	18
4	DSC-B	2						10	4	2	40					
5	DSC-B	2	5	4	2	4	3.2	10	4	2	40	80	28		50	18
6	DSC-B	2						10	4	2	40					
7	DSC-B	2	5	4	2	4	3.2	10	4	2	40	80	28		50	18
8	DSC-B	2						10	4	2	40					
9	AECC-B	4	4	3.2	----	----	----	10	4	2	40	50	18		200	---
10	SEC-II (VBC-II) Compulsory	2	Constitution of India & Local Self Government (On-line & Self-Study Mode)						---	---	1	50	50		18	
Total		22	24	19.2	8	16	12.8					500				
Grand Total		44	48	38.4	16	32	25.6					1000				

- Student contact hours per week: 32 Hours (Min.)
- Theory and Practical Lectures :48 Minutes Each
- **DSC**–Discipline Specific Core course: Select any 4 subject pairs from A1 to A38 and B1 to B38.
- **AECC**–Ability Enhancement Compulsory Course (A & B)-English
- Practical Examination will be conducted annually for 50 Marks per course (subject).
- *There shall be separate passing for internal and University theory and also for practical examinations.*
- *Except English & SEC, there shall be combined passing for two theory papers of 40 marks each, .and minimum 28 marks required for passing out of 80.*
- *SEC: Skill Enhancement Courses includes Skill Based Courses and Value Based Courses.*
- *In case of VBC-I & II there shall be 25 Multiple Choice Questions (MCQ) of 2 marks each and minimum 18 marks are recruited for passing.*

60

ii) Structure of B.Sc. Programme (Semester III & IV)

SEMESTER-III (Duration-6 Months)																
Sr. No.	Course (Subject) Title	TEACHING SCHEME						EXAMINATION SCHEME								
		THEORY			PRACTICAL			THEORY				PRACTICAL				
		Credits	No. of lectures	Hours	Credits	No. of lectures	Hours	Internal		University		Hours	Max Marks	Min Marks		
						Max Marks	Min Marks	Hours	Max Marks	Total Marks	Min Marks	Hours	Max Marks	Min Marks		
1	DSC-C	2	3	2.4				10	4	2	40					
2	DSC-C	2	3	2.4	4	8	6.4	10	4	2	40	80	28			
3	DSC-C	2	3	2.4				10	4	2	40					
4	DSC-C	2	3	2.4	4	8	6.4	10	4	2	40	80	28			
5	DSC-C	2	3	2.4				10	4	2	40					
6	DSC-C	2	3	2.4	4	8	6.4	10	4	2	40	80	28			
7	AECC-C	4	4	3.2	---	---	---	---	---	---	---	---	---			
8	SEC-III	Any one from pool of courses			2	---	---	---	---	---	---	---	---	2	50	18
	TOTAL	16	22	17.6	14	24	19.2	60			240	350	---		50	

PRACTICAL EXAMINATION IS ANNUAL

SEMESTER-IV (Duration-6Months)

Sr. No.	Course (Subject) Title	TEACHING SCHEME					EXAMINATION SCHEME								
		THEORY			PRACTICAL		THEORY				PRACTICAL				
		Credits	No. of lectures	Hours	Credits	No. of lectures	Hours	Internal		University		Hours	Max Marks	Min Marks	
							Max Marks	Min Marks	Hours	Max Marks	Total Marks	Min Marks	Hours	Max Marks	Min Marks
1	DSC-D	2	3	2.4			10	4	2	40	80	28	As per BOS Guide-lines	100	35
2	DSC-D	2	3	2.4	4	6.4	8	10	4	2					
3	DSC-D	2	3	2.4			10	4	2	40	80	28		100	35
4	DSC-D	2	3	2.4	4	6.4	8	10	4	2					
5	DSC-D	2	3	2.4			10	4	2	40	80	28		100	35
6	DSC-D	2	3	2.4	4	6.4	8	10	4	2					
7	AECC-C AECC-D	---	---	---	---	---	---	---	---	3 Project	70 30	100	25 10	---	---
8	SEC-IV	Any one from pool of courses			2	---	---						2	50	18
	TOTAL	12	18	14.4	14	19.2	24				400	---		350	
		28	40	32	28	38.4	48				750	--	---		

• Student contact hours per week: 36.8 Hours (Min.)

• Total Marks for B.Sc.-II (Including EVS) **1100**

• Theory and Practical Lectures :48 Minutes Each

• Total Credits for B.Sc.-II (Semester III & IV): **56**

• **DSC:** -Discipline Specific Core Course: Select any 3subject pairs, relevant to those opted at B. Sc. I, from DSC C1 to DSC C38 and / or DSC IC39 to DSC IC50 and DSC D1 to DSC D38 and/or DSC ID39 to DSC ID50.

• **AECC-** Ability Enhancement Compulsory Course (C): Environmental Studies: EVS Theory and AECC-D EVS Project (Theory:70 & Project:30 marks)

• *There shall be separate passing for internal and University theory as well as practical / project examinations.*

• *Practical Examination shall be conducted annually for 100 Marks per course (subject) and minimum 35 marks are required for passing.*

• *Except Environmental Studies, there shall be combined passing for two theory papers of 40 marks each. i. e. minimum. 28 marks are required for passing out of 80.*

• *Minimum 4 marks are required for passing out of 10 for Internal Examination of each paper.*

• *Examination of SEC shall be either theory or practical depending upon type of SEC.*

iii) Structure of B.Sc. Programme Sem V&VI

SEMESTER-V (Duration-6Months)																
Sr. No.	Subject Title	TEACHING SCHEME						EXAMINATION SCHEME								
		THEORY			PRACTICAL			THEORY			PRACTICAL					
		Credits	No. of lectures	Hours	Credits	No. of lectures	Hours	Internal		University			Hours	Max Marks	Min Marks	
								Max Marks	Min Marks	Hours	Max Marks	Min Marks				
1	DSE-E	2	3	2.4	8	20	16	10	4	2	40	14	PRACTICAL EXAMINATION IS ANNUAL			
2	DSE-E	2	3	2.4				10	4	2	40	14				
3	DSE-E	2	3	2.4				10	4	2	40	14				
4	DSE-E	2	3	2.4				10	4	2	40	14				
5	AECC-E	4	4	3.2				10	4	2	40	14				
6	SEC-V	Any one from pool of courses			2	---	---	---	---				2	50	18	
	TOTAL	12	16	12.8	10	20	16	50			200					
SEMESTER-VI (Duration-6 Months)																
1	DSE-F	2	3	2.4	8	20	16	10	4	2	40	14	As per BOS Guide-Lines	200	70	
2	DSE-F	2	3	2.4				10	4	2	40	14				
3	DSE-F	2	3	2.4				10	4	2	40	14				
4	DSE-F	2	3	2.4				10	4	2	40	14				
5	AECC-E	4	4	3.2				10	4	2	40	14				
6	SEC-VI	Any one from pool of courses			2	---	---						2	50	18	
	TOTAL	12		12.8	10		16	50			200					
	GRAND TOTAL	24	32	25.6	20	40	32			400	800					

• Student contact hours per week: 28.8 Hours (Min)	• Total Marks for B.Sc.-III (Including English): 800
• Theory and Practical Lectures: 48 Min. Each	• Total Credits for B.Sc.-III (Semester V&VI): 44
• DSE-Discipline Specific Elective. A candidate shall select one course (subject) from the three Courses (Subjects) selected at B.Sc.–II. Select any 4 pairs of papers from DSE-E1 to DSE-E84 for Sem –V and DSE- F1 to DSE-F84 for Sem-VI	
• AECC-Ability Enhancement Compulsory Course (E & F): English for communication	
• <i>There shall be separatee passing for internal, theory and practical examinations.</i>	
• <i>Practical Examination shall be conducted annually for 200 marks, and minimum 70 marks are required for passing.</i>	
• <i>University semester end exam shall be of 40 marks per paper and minimum 14 marks are required for passing.</i>	
• <i>Minimum 4 marks are required for passing out of 10 for Internal Examination of each paper.</i>	
• <i>Examination of SEC shall be either theory or practical depending upon type of SEC.</i>	

Class	B. Sc. - I	B. Sc. - II	B. Sc. - III	Total
Marks	1200	1100	800	3100
No. of Credits	60	56	44	160

**Nature of Question Paper for B.Sc. Part – I, II & III (40 + 10 Pattern) according to Revised Structure
as Per NEP – 2020 to be implemented from academic year 2022-23**

Maximum Marks: 40

Duration: 2 hrs

Q. 1 Select the most correct alternate from the following [8]

i) to viii) MCQ one mark each with four options

- A)
- B)
- C)
- D)

Q.2 Attempt any TWO of the following [16]

- A)
- B)
- C)

Q. 3 Attempt any FOUR of the following [16]

- a)
- b)
- c)
- d)
- e)
- f)

---XXX---