Handbook of Examination

For Choice-Based Credit System (CBCS)

(Semester Pattern)

Bachelor of Science (B.Sc.) Program **(2019 Pattern)**

Shri Dhokeshwar College, Takali Dhokeshwar

Tal-Parner, Dist-Ahmednagar, Pin-414304

With effect from June 2019

1) INTRODUCTION:

 The B.Sc. Degree Course (2019 pattern) will be introduced in the following order:-

First Year B.Sc.	2019-2020
Second Year B.Sc.	2020-2021
Third Year B. B.Sc.	2021-2022

- B.Sc. Degree Course will consist of six semesters divided into three Years. The total no of credits will be 132.
- The first year (Semester I and II), Second Year (Semester III and IV) and Third year (Semester V and VI) choice based credit system. Semester End Examination will be held at the end of each semester.
- For first year: student has to select 4 different science subjects from the list of the subjects offered by the college.
- For second year: student has to select 3 subjects among 4 science subjects chosen in the first year. Environmental Science will be the compulsory subject for all students. Student has to select 1 Language course among the language courses offered by the college.
- For third year: student has to choose 1 principal subject among the 3 science subjects opted in second year.
- Each theory credit is equivalent to 15 clock hours of teaching. One credit is equal to 15 contact hours.
- Each practical credit is equivalent to 30 clock hours of laboratory teaching.
- For each semester, there should be 15 weeks of teacher student interaction/active learning.
- 1 theory credit: 1 theory period of 1 hr. 15 min. duration per week. Therefore, for 2 credit theory courses for FY/SY/TY = 3 lectures per week of 50 min. duration.
- Practical sessions

  For F. Y. B. Sc., Each practical session time is 3 hrs 15 min (= 195 min).

  For SY / T. Y. B. Sc.: Each practical session time is 4 hrs 20 min (= 260 min).

Theory courses:

15 weeks of semester	12 weeks for teaching/ active learning	3 weeks for continuous evaluation

Practical courses:

15 weeks of semester	14 weeks laboratory teaching / practical	1 week for continuous evaluation / viva / journal certification

- CGPA will be calculated on the basis of core 132 credits only.

2) ELIGIBILITY:

- No Candidates shall be admitted to the First Year of the B.Sc. Degree Course **(2019 pattern)** unless he/she has passed the Higher Secondary School Certificate Examination of the Maharashtra State Board of Higher Secondary Education Board or equivalent or University with English as a passing Course.
- Other rules and regulation for admission to F.Y.B.Sc. are as per SPPU norms.

3) Rules for A.T.K.T

- Minimum number of credits required to take admission to S. Y. B. Sc. are 2 (50% of the total credits for F. Y. B. Sc.)
- Minimum number of credits required to take admission to T. Y. B. Sc. Are 4credits from F. Y. B. Sc. (100% credits from F. Y. B. Sc.) and at least 22 credits from S. Y. B. Sc. (50% credits from S. Y. B. Sc.)

4) MEDIUM OF INSTRUCTION:

Medium of instruction for B.Sc. Degree course shall be English except languages.

5) DURATION OF SEMESTER:

The dates for the commencement and conclusion of each semester shall be declared by the institute authorities. The course shall be a full time course and the duration of the course shall be of three years.

6) ATTENDANCE:

No candidate shall be admitted to the Semester End Examinations (SEE) unless he/ she have satisfactorily completed 75% of attendance for both the semesters.

7) METHODS OF EVALUATION/ EXAMINATION PATTERN

The evaluation of students will be done on two parameters: -

- Continuous Internal Evaluation (CIE)
- Semester End Examination (SEE)

Continuous Internal Evaluation (CIE) will be done on a continuous basis there will be Continuous assessment for 30 %.

- There will be compulsory written examination of **10** marks for each subject

➢ **5** marks are reserved for **Students Active Participation** in the classroom **OR** any of the following methods for internal assessment adopted by the subject teacher

a. Quiz

b. Seminars/Presentations

c. Projects

d. Assignments

e. Tutorials

f. Oral examination

g. Open book test

h. Group discussion

Semester End Examination question papers will be set for 70% marks (two hours duration) as per the pattern given by respective BOS.

8) STANDARD OF PASSING:

- Minimum marks required to pass a course (Theory / Practical) is 40% of the total marks (20/50). Out of that, student must obtain minimum 30% of the marks (5/15) in Continuous Internal Evaluation (CIE) and 40% of marks (14/35) in Semester End Examination (SEE). For example, for a course of 2 credits, a student must obtain minimum 20 marks provided that he/she should secure minimum 5 marks in Continuous Internal Evaluation (CIE) and 14 marks in Semester End Examination (SEE). It means there is separate passing for CIE and SEE.

- Students who are failed in Continuous Internal Evaluation (CIE) of any odd semester can reappear for the same only in next odd semester and vice-versa. eg. students failed in 1^{st} semester can reappear in 3^{rd} semester only and students failed in 2^{nd} semester can appear in 4^{th} semester only.

- If the student doesn't secure 40% in the total assessment but has secured the minimum passing requirement i.e. 30% marks in Continuous Internal Evaluation (CIE) and minimum 40% marks in Semester End Examination, he/ she would be permitted to appear for anyone of or both of Continuous Internal Evaluation (CIE) and Semester End Examination.

9) Calculation of SGPA and CGPA

SGPA stands for Semester Grade Point Average. The performance of a student in particular semester is given by **SGPA**. **It** can be calculated by the sum of total grade point divided by credit of total subject.

$$SGPA=\Sigma \frac{Grade\ point\ earned\ X\ credits\ for\ eachcourse}{TotalCredits}$$

CGPA is the **calculation** of the cumulative grade point average value obtained by the students in all the subjects. The Grade Points obtained in all the subjects' are **calculated** along with the total number of credit hours you have attempted.

$$CGPA = \Sigma \frac{Grade\ point\ earned\ X\ credits\ for\ eachcourse}{TotalCredits}$$

10) STRUCTURE OF TRANSCRIPT:

Conversion of Marks into credit(s) and grade(s): The following illustrations could be taken as an example for computing SGPA and CGPA from percentage to credits for in all disciplines, degree program courses in Science subjects. Percentage to Grade Points

The following formula may be used to convert (%) into letter grades

Sr. No	Grade Letter	Grade Point	Marks
1	O (Outstanding)	10	90≤ Marks ≤100
2	A+(Excellent)	9	75≤ Marks ≤89
3	A (Very Good)	8	60≤ Marks ≤74
4	B+(Good)	7	55≤ Marks ≤59
5	B (Above Average)	6	50≤ Marks ≤54
6	C (Average)	5	45≤ Marks ≤49
7	D (Pass)	4	40≤ Marks ≤44
8	F (Fail)	0	Marks <40

10) SCHEME OF CREDITS (Academic/CGPA):

Total credits for three year B.Sc. Course (2019 pattern) is as follows:-

	Discipline specific Core Courses (CC)		Ability Enhancement Compulsory Courses (AECC)		Discipline specific Elective Courses (DSEC)		Skill Enhancement Courses (SEC)		Total Credits
Semester	**Course**	**Theory 1 + Theory 2 + Practical Credit**	**Course**	**Theory + Practical Credit**	**Course**	**Theory 1 + Theory 2 + Practical Credit**	**Course**	**Theory + Practical Credit**	
I	CC - I	2 + 2 + 1.5 = 5.5	-	-	-	-	-	-	22
	CC – II	2 + 2 + 1.5 = 5.5							
	CC – III	2 + 2 + 1.5 = 5.5							
	CC - IV	2 + 2 + 1.5 = 5.5							
II	CC – V	2 + 2 + 1.5 = 5.5	-	-	-	-	-	-	22
	CC – VI	2 + 2 + 1.5 = 5.5							
	CC – VII	2 + 2 + 1.5 = 5.5							
	CC - VIII	2 + 2 + 1.5 = 5.5							
III	CC – IX	2 + 2 + 2 = 6	AECC – I (Environmental Science)	2 + 0 = 2	-	-	-	-	22
	CC – X	2 + 2 + 2 = 6	AECC – II (Language communication)	2 + 0 = 2					
	CC – XI	2 + 2 + 2 = 6							
IV	CC – XII	2 + 2 + 2 = 6	AECC – I (Environmental Science)	2 + 0 = 2	-	-	-	-	22
	CC – XIII	2 + 2 + 2 = 6	AECC – II (Language communication)	2 + 0 = 2					
	CC – XIV	2 + 2 + 2 = 6							
V	-	-	-	-	DSEC - I	2 + 2 + 2 = 6	SEC - I	2 + 0 = 2	22
					DSEC – II	2 + 2 + 2 = 6	SEC - II	2 + 0 = 2	
					DSEC - III	2 + 2 + 2 = 6	-		
VI	-	-	-	-	DSEC - IV	2 + 2 + 2 = 6	SEC - III	2 + 0 = 2	22
					DSEC - V	2 + 2 + 2 = 6	SEC - IV	2 + 0 = 2	
					DSEC - VI	2 + 2 + 2 = 6	-	-	
							Total Credit		**132**

Non-CGPA credit points

In addition to credits above, students have to earn **EIGHT** additional credits (Non-CGPA) from following groups.

Group no	**Activity**	**Sem**	**Credits**
1 (Compulsory)	Physical Education	Sem-I Sem-II	1 1
2	Sports College level University /state/National level/ International Level	 I-VI	 1 2
3	NSS (Participation in camp) NCC (participation in annual camp) NCC (B or C certificate) NSS/NCC(RD parade)	I-VI	1 1 2 4
4	Avishkar Participation College level University level/State level Winner at state level Extension activity Participation Cultural activity Participation	I-VI	 1 2 4 1 1
5	Research paper presentation at State/National level conference/ seminar International level conference/ seminar	I-VI	 1 2
6	Participation in Summer school (minimum one week) or Short term course (minimum one week)	I-VI	3 3
7	Scientific survey /Societal survey	I-VI	2
8	Field visit/study tour/Industrial visit/curricular competition/co-curricular competition	I-VI	1
9	Online Certificate course/MOOCS/Career advancement course (10hrs/credit)/Internship (60 hrs)	I-VI	Up to 4 credits

11) VERIFICATION AND REVALUATION:

The candidate may apply for verification and revaluation of result which will be done by the college as per ordinance framed in that behalf**.**

Structure of Examination Marks scheme

Semester	Course Opted	Course Name	Credits	Internal Max. Marks	External Max. Marks	Total Marks
I	CC 1	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	1.5	15	35	50
	CC 2	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	1.5	15	35	50
	CC 3	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	1.5	15	35	50
	CC 4	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	1.5	15	35	50
	Sem. I total		**22**	**180**	**420**	**600**
II	CC 5	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	1.5	15	35	50
	CC 6	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	1.5	15	35	50
	CC 7	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	1.5	15	35	50
	CC 8	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	1.5	15	35	50
	Sem. II total		**22**	**180**	**420**	**600**
First Year Total			**44**	**360**	**840**	**1200**
III	CC 9	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	2	15	35	50
	CC 10	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	2	15	35	50
	CC 11	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	2	15	35	50
	AECC 1A	Env. Science	2	15	30	50
	AECC 2A	Language	2	15	30	50

	Sem. III total		**22**	**165**	**385**	**550**
IV	CC 12	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	2	15	35	50
	CC 13	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	2	15	35	50
	CC 14	Paper 1	2	15	35	50
		Paper 2	2	15	35	50
		Practical	2	15	35	50
	AECC 1B	Env. Science	2	15	30	50
	AECC 2B	Language	2	15	30	50
	Sem. IV total		**22**	**165**	**385**	**550**
Second Year Total			**44**	**330**	**770**	**1100**
V	DSEC 1A	Paper 1	2	15	35	50
	DSEC 1B	Paper 2	2	15	35	50
	DSEC 2A	Paper 3	2	15	35	50
	DSEC 2B	Paper 4	2	15	35	50
	DSEC 3A	Paper 5	2	15	35	50
	DSEC 3B	Paper 6	2	15	35	50
	DSEC 1	Practical Lab. 1	2	15	35	50
	DSEC 2	Practical Lab. 2	2	15	35	50
	DSEC 3	Practical Lab. 3	2	15	35	50
	SEC 1	Skill Based Course 1	2	15	35	50
	SEC 2	Skill Based Course 2	2	15	35	50
	Sem. V total		**22**	**165**	**385**	**550**
VI	DSEC 4A	Paper 1	2	15	35	50
	DSEC 4B	Paper 2	2	15	35	50
	DSEC 5A	Paper 3	2	15	35	50
	DSEC 5B	Paper 4	2	15	35	50
	DSEC 6A	Paper 5	2	15	35	50
	DSEC 6B	Paper 6	2	15	35	50
	DSEC 4	Practical Lab. 1	2	15	35	50
	DSEC 5	Practical Lab. 2	2	15	35	50
	DSEC 6	Practical Lab. 3	2	15	35	50
	SEC 3	Skill Based Course 3	2	15	35	50
	SEC 4	Skill Based Course 4	2	15	35	50
	Sem. VI total		**22**	**165**	**385**	**550**
Third Year Total			**44**	**330**	**770**	**1100**
Total for FY + SY + TY B. Sc.			**132**	**1020**	**2380**	**3400**