



“ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार” – शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

**PADMABHUSHAN DR. VASANTODADA PATIL MAHAVIDYALAYA**

TASGAON, Dist. Sangli, Pin- 416 312 ☎ - STD : 02346-250665, 250575 FAX : 250575

● **Affiliated to Shivaji University, Kolhapur** ●

E-mail : san.pdvpm.tas@gmail.com Website : www.pdvpmtasgaon.edu.in

▶ Established Year : June 1962 ▶ P. B. No. : 14 ▶ Jr. College No. : J22-10-001 ▶ Sr. College Code No. :  $\frac{SIAC14}{X}$  Jr.: C-8



NAAC Reaccredited 'B' (2.75)

ISO Certified : 9001:2015

**Shikshanmaharshi  
Dr. Bapuji Salunkhe**  
B.A., B.T., D.Litt.  
FOUNDER

**Hon. Chandrakant (Dada) Patil**  
PRESIDENT  
B.Com.  
Ex- Minister of Revenue, Public Works  
Govt. of Maharashtra

**Prin. Abhaykumar Salunkhe**  
M.A.  
CHAIRMAN

**Prin. Mrs. Shubhangi Gawade**  
M.Sc. B.Ed.  
SECRETARY

**Dr. Milind S. Hujare**  
M.Sc., Ph.D.  
PRINCIPAL

Ref.No. : PDVPMT /

Date :

## Criterion I

### Curricular Aspects

#### 1.2.1

**Programs in which Choice Based Credit System (CBCS)/elective course system has been implemented**



SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA  
 PHONE : EPABX-2609000 website- [www.unishivaji.ac.in](http://www.unishivaji.ac.in)  
 FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094  
 शिवाजी विद्यापीठ, कोल्हापूर – 416004.  
 दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग- २६०९०९४)  
 फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

**Ref./SU/BOS/Science/4749**

**Date:- 01/06/2018**

The Principal  
 All Affiliated Science (B.Sc.) Colleges,  
 Shivaji University,  
 Kolhapur.

Subject: Regarding Guidelines, Rules, Regulation, Structure and Standard of Passing of B.Sc. Part –I, II, III (Sem I & VI) Choice Based Credit System (CBCS) under the Faculty of Science and Technology.

**Sir/Madam,**

With reference to the subject mentioned above, I am directed to inform you that University authorities have accepted and granted approval to Guidelines, Rules, Regulation, Structure and Standard of Passing of B.Sc. Part- I , II, III (Sem. I & VI ) Choice Based Credit System (CBCS) under the Faculty of Science and Technology.

This Guidelines, Rules, Regulation, Structure and Standard of Passing shall be implemented from academic year 2018-2019 (i.e. from June 2018 onwards). A soft copy containing Guidelines, Rules, Regulation, Structure and Standard of Passing is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in). (Online Syllabus )

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dy. Registrar

Encl: As above

Copy to;

- 1 Dean, Faculty of Science and Technology
  - 2 Chairman, BOS & Ad-hoc Bords under Faculty of Science and Technology
  - 3 Appointment Section
  - 4 P.G. Admission Section
  - 5 B.Sc. Section
  - 6 Affiliation Section (U.G.)
  - 7 Computer Centre
  - 8 Eligibility Section
  - 9 Distan Education
- } for information and necessary action.



# **Shivaji University, Kolhapur**

**Choice Based Credit System (CBCS)**

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

**Under Faculty of Science & Technology**

(To be implemented from Academic Year 2018-19)

**Shivaji University, Kolhapur**  
**Choice Based Credit System (CBCS)**  
**Bachelor of Science (B. Sc.) Program**  
**Under the Faculty of Science & Technology**  
**Regulations and Guidelines**

(To be implemented from Academic Year 2018-19)

- 1. Implementation of Regulations & Guidelines:** The Regulations & guidelines shall be implemented gradually as mentioned below –
  - a) B.Sc. Part – I from Academic year 2018- 19
  - b) B.Sc. Part – II from Academic year 2019- 20
  - c) B.Sc. Part – III from Academic year 2020- 21
- 2. Eligibility Criteria:** As per Ordinance – O. B. Sc. 1
- 3. Duration and Pattern of program:** The total duration of B. Sc. Program will be of 3 years. The pattern of CBCS will be of semester type. There shall be 6 semesters each of 6 months duration.
- 4. Weightage:** There shall be 2800 marks for 3 years B. Sc. CBCS Program with 140 Credits.
  - a) **B.Sc. Part – I (Sem I & II) :**  
 For B. Sc. Part I total Credits shall be 52 with 26 Credits for each Semester, of these; there shall be 18 Credits for theory and 8 credits for practical per semester.
    - I.** There shall be Ability Enhancement Compulsory Course (subject) (hereafter termed as AECC) with Paper A for Sem I and Paper B for Sem II each of 50 marks, as compulsory English course.
    - II.** There shall be 4 Discipline Specific Core Courses (subjects) (hereafter termed as DSC) per semester.
    - III.** There shall be 2 theory papers each of 50 marks for each DSC.
    - IV.** There shall be 1 practical of 50 marks for each DSC.

**b) B.Sc. Part –II (Sem III & IV) :**

For B. Sc. Part II total Credits shall be 52 with 28 Credits for Sem III and 24 Credits for Sem IV. For Sem III there shall be 16 Credits for

theory and 12 credits for practical and for Sem IV there shall be 12 credits for theory and 12 credits for practical.

- I. There shall be One AECC with Paper C (Theory – 70 marks) and Paper D (Project – 30 marks) as compulsory Environmental Studies course. The examination shall be conducted at the end of Sem IV. The Credits of the Environmental Studies course shall be assigned at the end of Sem IV.
- II. There shall be 3 DSC (subjects) per semester.
- III. There shall be 2 theory papers each of 50 marks for a DSC.
- IV. There shall be 1 practical of 100 marks for each DSC.

**c) B.Sc. Part –III (Sem V & VI):**

For B. Sc. Part III total Credits shall be 36 with 18 Credits for each Semester of these; there shall be 10 Credits for theory and 8 credits for practical per semester.

- I. There shall be Ability Enhancement Compulsory Course (AECC) with paper E for Sem V and paper F for Sem VI, each of 50 marks [40(Theory) + 10(Internal)] as compulsory English course.
- II. There shall be 4 theory papers each of 50 marks [40 (Theory) +10 (Internal)] as Discipline Specific Elective (DSE).
- III. There shall be 4 practical of each of 50 marks.

**5. Credit distribution chart for B. Sc. Program with Course Code :**

<b>Course Name</b>	<b>Total Courses(Papers)</b>	<b>Total Credits</b>	<b>% in total course</b>
DSC : Discipline Specific Core Course	28	96	67
AECC : Ability Enhancement Compulsory Courses	6	12	14
DSE : Discipline Specific Elective	8	32	19
<b>TOTAL</b>	<b>42</b>	<b>140</b>	<b>100</b>

**6. Ordinances regarding the examination – O. B.Sc. 2, 3 and 4 shall prevail.**

**7. Practical Examinations** – There shall be the annual system of examination in respect of practical examinations for B.Sc. program. The rules for practical examinations shall be as per the letter / circular issued by respective Board of Studies time to time.

**8. Equivalence of papers and chances for the students in previous – semester pattern** – Two additional chances in subsequent semesters shall be provided for the repeater students of B.Sc. After this the concerned students will have to appear for the examination as per this revised scheme.

**9. Standard of passing**

**a) For B.Sc. – I (Sem I & II)**

Except English there shall be combined passing for two theory papers of 50 marks each for each course (subject) i.e. minimum 35 marks out of 100 are required for passing. There shall be separate passing for theory and practical courses. Minimum 18 marks out of 50 are required for passing of practical examination of each course. For English theory exam, minimum 18 marks out of 50 are required for passing. There shall be a Compulsory Civic Course (CCC) entitled “Democracy, Elections and Good Governance” for Sem I and one Skill Development Course (SDC) for Sem II. (CBCS R. B. Sc. 3)

**b) For B. Sc. – II (Sem III & IV)**

Except Environmental Studies, there shall be combined passing for two theory papers of 50 marks each for each course i.e. minimum 35 marks out of 100 are required for passing. There shall be separate passing for theory and practical courses. Minimum 35 marks out of 100 required for passing of practical examination of each course. For Environmental Studies theory paper minimum 25 out of 70 and for project minimum 10 marks out of 30 are required for passing. There shall be separate passing for theory and project examination for Environmental Studies.

**c) For B. Sc. – III (Sem V & VI)**

There shall be separate passing for four theory papers of 50 marks each. Minimum 18 marks out of 50 are required for passing. For practical examination minimum 70 marks out of 200 are required for passing. There shall be separate passing for theory and practical

examinations. For English, minimum 18 marks out of 50 are required for passing.

- d) For the candidate/ student in Sem- V it is compulsory to appear for the paper entitled, “Constitution of India & Local Self Government”. For Sem VI one Skill Development Course (SDC) (CBCS R. B. Sc. 3). The study material of the syllabus for above stated paper will be available on [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

The subject stated above has to be learnt under self-study mode. The examination will have maximum 50 marks and nature of examination will be of multiple choice types. Minimum 20 marks (40%) out of 50 are required for passing.

The examination of above subject has to be conducted locally in the college. The certificate of the successful candidates/ students has to be issued by the Principal of the college. The mark list of passed candidates to be communicated to examination department of Shivaji University, Kolhapur within due time.

The student / candidate who failed to score minimum marks (20 marks) in the said paper will disqualified to claim the degree certificate.

#### 10. Gradation Chart :

Marks Obtained	Numerical Grade (Grade Point)	CGPA	Letter Grade
Absent	0 (zero)	-	-
0 – 34	0 (zero)	0.0 – 4.99	F (Fail)
35 – 44	5	5.00 – 5.49	C
45 – 54	6	5.50 – 6.49	B
55 – 64	7	6.50 – 7.49	B+
65 – 74	8	7.50 – 8.49	A
75 – 84	9	8.50 – 9.49	A+
85 – 100	10	9.50 – 10.0	O (Outstanding)

#### Note:

- i. Marks obtained  $\geq 0.5$  shall be rounded off to next higher digit.
- ii. The SGPA & CGPA shall be rounded off to 2 decimal points.
- iii. Marks obtained in 50 marks or 200 marks paper shall be converted to 100 marks.

#### Calculation of SGPA & CGPA

1. Semester Grade Point Average (**SGPA**)

$$\text{SGPA} = \frac{\sum(\text{Course credits} \times \text{Grade points obtained}) \text{ of a semester}}{\sum(\text{Course credits}) \text{ of respective semester}}$$

2. Cumulative Grade Point Average (**CGPA**)

$$\text{CGPA} = \frac{\sum(\text{Total credits of a semester} \times \text{SGPA of respective semester}) \text{ of all semesters}}{\sum(\text{Total course credits}) \text{ of all semesters}}$$

**11. Result** - The result of each semester shall be declared as Pass or Fail. However, ATKT rules will be followed for theory and practical passing.

**12.** For Geography, Home Science and I.D.S. subject under the Faculty of Humanities, B.A. rules shall be applicable.

**13. Revised Rules** - These revised rules will be gradually implemented with effect from the academic year 2018 -19 for B.Sc. Part I, 2019-20 for B. Sc. Part II and 2020-21 for B. Sc. Part III. However, the existing (i.e. pre-revised) rules shall remain in force for the students of semester pattern during the transition period.

## Choice Based Credit System (CBCS) pattern



**Under Faculty of Science & Technology  
Implemented from the academic year 2018-19**

Sr. No.	Rules and Regulations
<b>CBCS R. B. Sc. 1</b>	The 3 year B. Sc. CBCS Program shall consist of 3 parts (Part I, II and III) consisting of 2 semesters each. Semester Examination for theory papers shall be held at the end of each semester. The Practical Examination shall be held at the end of Part I/ II/ III examination.
<b>CBCS R. B. Sc. 2</b>	<p>The Scheme of the Physical Education has been made operative for B. Sc. Part-I.</p> <p>The benefit of marks, obtained by the students in Physical Education Tests (of 10 marks) conducted by the University authorities shall be as under :</p> <ol style="list-style-type: none"> <li>1. If a student fails in up to four heads of passing of University examination (Theory / Practical) and having passed in all the remaining heads of passing, the marks obtained by him in the Physical Education Test shall be added to maximum up to four heads of passing in which he has failed as the case may be. A student getting the benefit of Physical Education marks should not be given advantage of any other Ordinance. The Physical Education Marks shall not be considered for the award of Class and for deciding merit.</li> <li>2. If as a result of addition of Physical Education marks a student does not pass the examination the marks obtained by him in Physical Education shall not be considered.</li> <li>3. The marks of Physical Education obtained by the unsuccessful students at the B. Sc. Part-I semester Examination shall be carried forward for their subsequent attempt/s.</li> <li>4. The marks obtained in Physical Education shall not be considered for earning exemption in a subject of head of passing, but the marks will be carried forward for availing the benefit at the subsequent attempts.</li> <li>5. The marks secured by the students under the Physical Education scheme shall be added to the total of his marks in the Examination irrespective of the fact of his passing or failure in the examination. The Physical Education marks shall be shown as “Total +P. E. Marks”.</li> <li>6. The Physical Education Test shall be conducted in the Second Semester.</li> </ol>
<b>CBCS R. B. Sc. 3</b>	<p><b>(A) Structure of Programme :</b> Following shall be the Structure and course list</p> <p><b>(i) Structure - I for B. Sc. Part – I</b></p>

(ii) Structure - II for B. Sc. Part – II

(iii) Structure - III for B. Sc. Part – III

**(B) List of courses**

(i) for B. Sc. Part – I

(ii) for B. Sc. Part – II

(iii) for B. Sc. Part – III

**(C) List of IDS courses:**

Sr. No.	IDS	Compulsory	Optional
1.	Bio-Chemistry	Chemistry	Botany / Zoology
2.	Geo-Chemistry	Geology	Chemistry
3.	Astro-Physics	Physics	Mathematics
4.	Fisheries	Zoology	Botany/Chemistry
5.	Plant Protection	Botany	Chemistry/ Zoology
6.	Pollution	Chemistry	Botany/Zoology/ Physics

**(D) Non-Credit courses:**

**(a) Compulsory Civic Courses (CCC)**

For Sem I and Sem V there shall be Compulsory Civic Courses under **self study mode** which are as follows:

**Sem I: CCC – I : Democracy, Elections and Good Governance**

**Sem V: CCC – II : Constitution of India and Local Self Government**

**(b) Skill Development Courses (SDC)**

For Sem II and Sem VI there shall be Compulsory Skill Development Courses under **self study mode** which are as follows:

**Sem II: SDC – I : Any one from following (i) to (v) (Non-Credit)**

i) Business Communication & Presentation ii) Event management iii) Personality Development, iv) Yoga & Physical Management v) Resume, Report & proposal writing

**Sem VI: SDC – II: Any one from following (vi) to (x) (Non-Credit)**

	<p>vi) Interview &amp; Personal Presentation Skill, vii) Entrepreneurship Development Skill, viii) Travel &amp; Tourism, ix) E-Banking &amp; Financial Services, x) RTI &amp; Human Right Education (HRE), IPR &amp; Patents</p> <ul style="list-style-type: none"> <li>• <i>These courses are of Self Study mode. The study material of all above courses will be made available on University website.</i></li> <li>• <i>The Examination of each of the course will be of 50 marks having 25 MCQ questions. Minimum 20 marks (40%) out of 50 are required for passing.</i></li> <li>• <i>The duration of examination shall be 60 minutes.</i></li> <li>• <i>The examination shall be conducted at the college level.</i></li> <li>• <i>The list of all candidates along with marks is to be submitted to the University.</i></li> <li>• <i>The degree will be awarded only after successful completion of these courses.</i></li> <li>• <i>The performance of students regarding Non-Credit courses (CCC &amp; SDC) shall be separately mentioned in Result-sheet as Pass or fail.</i></li> </ul>
<p><b>CBCS R. B. Sc. 4</b></p>	<p>The detailed syllabi for the various courses under CBCS pattern shall be subject to such revision, modification etc. as may be made by the Academic Council from time to time on the recommendation of the Boards of Studies in different subjects and shall be available on University website. The text-books and reference books for the various subjects shall be those as prescribed by the Academic Council from time to time on the recommendations of the respective Boards of Studies.</p>
<p><b>CBCS R. B. Sc. 5</b></p>	<p><b>(A)</b></p> <p>i. The result of the B. Sc. Part-I examination shall be declared publicly in three categories viz. i) Pass-candidates who have passed the Part-I examination and (ii) Fail-Candidates who have failed in one or more heads of passing. (iii) Fail-ATKT – Who have Failed in maximum four heads of passing, such candidates are allowed to proceed for B. Sc. Part II.</p> <p>ii. The result of the B. Sc. Part-II examination shall be declared publicly in three categories viz. i) Pass-candidates who have passed the Part-II examination and (ii) Fail-Candidates who have failed in one or more heads of passing. (iii) Fail-ATKT – Who have Failed in maximum four heads of passing, such candidates are allowed to proceed for B. Sc. Part III.</p>

	<p>iii. The result of B. Sc. Part III shall be declared publicly in two categories viz.</p> <p>(i) Pass-Candidates who have passed in all heads of passing of the Examination and (ii) Fail-Candidates who have failed in one or more heads of passing (iii) The result of the Candidate at B. Sc. Part –III shall be declared pass only when candidate clears the Part – I &amp; II Examinations satisfactorily.</p> <p>No class shall be awarded at B. Sc. Part-I &amp; II Examination and no passing certificate shall be issued to the candidates for these examinations.</p> <p><b>(B)</b> The Results of the Examination will be declared on the basis of marks obtained, Grade points obtained, Credit points, Status, Percentage of marks, Result, SGPA &amp; CGPA with numerical grade point and letter grade. The list of Courses, course code, Paper number of programme, numerical grade &amp; letter grade table and calculation of SGPA and CGPA table shall be mentioned on the backside of mark-sheet.</p>
<b>CBCS R. B. Sc. 6</b>	The fees for the admission to the B. Sc. Part-I, B. Sc. Part-II & Part-III Semester Examinations shall be as prescribed by University Circular from time to time.
<b>CBCS R. B. Sc. 7</b>	The Principal of the college may permit a student to change his optional subject/ subjects in the first term only before submission of dully filled University Examination form.
<b>CBCS R. B. Sc. 8</b>	The Principal of the college has to certify the attendance and the examination form of the candidates as per the Ordinance O. 31 and O. 37. A candidate has to submit examination form as per the schedule and dates prescribed by the University for every examination to the University along with the prescribed fee through the Principal of the college.
<b>CBCS R. B. Sc. 9</b>	A candidate who has already passed in a principal course (subject) and wants to improve the performance in theory only, shall be allowed to appear again in that head in <b>immediate subsequent semester</b> after cancellation of earlier performance. This provision is made only for B. Sc. Part III (Sem V & VI) in the same course (subject) before taking concerned degree.
<b>CBCS R. B. Sc. 10</b>	<b>a)</b> A candidate, who has already qualified the B. Sc. Degree examination with a specific subject of this University and desires to seek B. Sc. Degree in another subject, shall be permitted to do so. Such candidate may appear again at B. Sc. Part – III (Sem V & VI) Examination on the submission of a new application for fresh admission and on payment of required fees. Such a candidate need not appear for compulsory course (English).

	<p><b>b)</b> A candidate seeking degree in a specific course (subject) not offered at B. Sc. Part II &amp; III, but offered only at B. Sc. Part I, needs to reappear for B. Sc. Part II (Sem III &amp; IV) &amp; Part III (V &amp; VI), including both theory and practical.</p> <p>Such a candidate passing the examination shall not be eligible for class or additional degree. He shall be granted a certificate of having passed the additional subject.</p> <p><b>c)</b> The Candidate who has already taken degree in any of the optional courses and if a candidate wants to change the principal courses, candidate can appear for new course as principle course (Subjects), from amongst the optional subjects of B. Sc. Part II, candidate can complete his new course, however the candidate will not be offered new degree in the principle subject, the degree will be offered if candidate surrenders his first degree.</p> <p><b>d)</b> The above candidates, described in clause (c &amp; d), shall get new degree, provided they surrender first degree. <i>This rule shall be applicable retrospectively.</i></p> <p><b>e)</b> The Candidate who has already taken degree in any of the optional courses shall not be eligible for a second degree and a class, a prize, scholarship, medal or any other award even though candidate completes the degree in other remaining courses. The candidate will get all these benefits if candidate surrenders his first degree.</p>
<b>CBCS R. B. Sc. 11</b>	A candidate, who has duly qualified for appearing at B. Sc. Part III examination and has not taken the examination, will be permitted to offer any of his optional subjects at B. Sc. Part II, as his principal subject at B. Sc. Part III. However, the candidate has to complete two terms successfully in the newly selected course (subject).
<b>CBCS R. B. Sc. 12</b>	A candidate who has satisfactorily kept first term of B. Sc. Part-I in Shivaji University or any other Universities recognized by UGC and following CBCS pattern shall be allowed to join for the Second Term of the B. Sc. Part-I in Shivaji University.
<b>CBCS R. B. Sc. 13</b>	A candidate satisfactorily completing B. Sc. Part I (Sem I & II) from other UGC recognised Universities, following CBCS pattern and seeking admission for B. Sc. Part II of Shivaji University shall be admitted in affiliated colleges and Credits shall be transferred.
<b>CBCS R. B. Sc. 14</b>	<p>A candidate from other Universities recognized by UGC can take admission to the same course (Subject) in any subsequent semester in the framework of Rules and Regulations of this University.</p> <p>Such candidate who has obtained the concession of A. T. K. T. at any of the</p>

	<p>examinations of the other Universities recognized by UGC and desires to migrate to this University to proceed for further studies will have to clear the failed subjects from the parent University. In the case of such candidates the parent University should issue the Migration Certificate.</p>
--	--

**CBCS R. B. Sc. 3: (A) (i) Structure of B. Sc. Programme Sem I & II**  
**Structure – I**

SEMESTER – I (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	Hours	Max	Total Marks	Min	Hours	Max	Min	
1	DSC-A	2	5	4	2	4	3.2	2	50	100	35	<b>PRACTICAL EXAMINATION IS ANNUAL</b>			
2	DSC-A	2						2	50						
3	DSC-A	2	5	4	2	4	3.2	2	50	100	35				
4	DSC-A	2						2	50						
5	DSC-A	2	5	4	2	4	3.2	2	50	100	35				
6	DSC-A	2						2	50						
7	DSC-A	2	5	4	2	4	3.2	2	50	100	35				
8	DSC-A	2						2	50						
9	AECC-A	2	4	3.2	-----	-----	-----	2	50	50	18				
Total		18	24	19.2	8	16	12.8	-	450						
SEMESTER – II (Duration – 6 Months)															
1	DSC-B	2	5	4	2	4	3.2	2	50	100	35	<b>As per BOS Guide-lines</b>		50	18
2	DSC-B	2						2	50						
3	DSC-B	2	5	4	2	4	3.2	2	50	100	35				
4	DSC-B	2						2	50						
5	DSC-B	2	5	4	2	4	3.2	2	50	100	35				
6	DSC-B	2						2	50						
7	DSC-B	2	5	4	2	4	3.2	2	50	100	35				
8	DSC-B	2						2	50						
9	AECC-B	2	4	3.2	-----	-----	-----	2	50	50	18				
Total		18	24	19.2	8	16	12.8	-	450			200			
<b>Grand Total</b>		<b>36</b>	<b>48</b>	<b>38.4</b>	<b>16</b>	<b>32</b>	<b>25.6</b>		<b>900</b>						
<ul style="list-style-type: none"> <li>Student contact hours per week : 32 Hours (Min.)</li> <li>Theory and Practical Lectures : 48 Minutes Each</li> <li><b>DSC</b> – Discipline Specific Core course : Select any 4 subject pairs from A1 to A38 and B1 to B38.</li> <li><b>AECC</b> – Ability Enhancement Compulsory Course (1A &amp; 1B)- English</li> <li>Practical Examination will be conducted annually for 50 Marks per course (subject).</li> <li><i>Except English, combined passing for two theory papers of 50 marks each. i.e. Min. 35 marks required for passing out of 100.</i></li> <li><i>There shall be separate passing for theory and practical courses.</i></li> </ul>						<ul style="list-style-type: none"> <li>Total Marks for B.Sc.-I (Including English) : <b>1100</b></li> <li>Total Credits for B.Sc.-I (Semester I &amp; II) : <b>52</b></li> </ul>									
<b>(A) Non-Credit Self Study Course : Compulsory Civic Courses (CCC)</b> <b>For Sem I: CCC – I : Democracy, Elections and Good Governance</b>															
<b>(B) Non-Credit Self Study Course : Skill Development Courses (SDC)</b> <b>For Sem II: SDC – I : Any one from following (i) to (v)</b> i) Business Communication & Presentation ii) Event management iii) Personality Development, iv) Yoga & Physical Management v) Resume, Report & proposal writing															

## ii) Structure of B. Sc. Programme Sem III & IV

### Structure - II

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	Hours	Max	Total Marks	Min	Hours	Max	Min						
1	DSC-C	2	3	2.4	4	6.4	8	2	50	100	35	<b>PRACTICAL EXAMINATION IS ANNUAL</b>								
2	DSC-C	2	3	2.4				2	50											
3	DSC-C	2	3	2.4				4	6.4	8	2				50	100	35			
4	DSC-C	2	3	2.4							2				50					
5	DSC-C	2	3	2.4				4	6.4	8	2				50	100	35			
6	DSC-C	2	3	2.4							2				50					
7	AECC-C	4	4	3.2				---	---	---					---	---				
	<b>TOTAL</b>	<b>16</b>	<b>22</b>	<b>17.6</b>	<b>12</b>	<b>19.2</b>	<b>24</b>			<b>300</b>	<b>---</b>									
SEMESTER – IV (Duration – 6 Months)																				
1	DSC-D	2	3	2.4	4	6.4	8	2	50	100	35				<b>As per BOS Guide-lines</b>	100	35			
2	DSC-D	2	3	2.4				2	50											
3	DSC-D	2	3	2.4				4	6.4	8	2							50	100	35
4	DSC-D	2	3	2.4							2							50		
5	DSC-D	2	3	2.4				4	6.4	8	2							50	100	35
6	DSC-D	2	3	2.4							2	50								
7	AECC- C AECC- D	---	---	---				---	---	---	3	70 30	100	25 10	---	---	---			
	<b>TOTAL</b>	<b>12</b>	<b>18</b>	<b>14.4</b>	<b>12</b>	<b>19.2</b>	<b>24</b>			<b>400</b>	<b>---</b>									
		<b>28</b>	<b>40</b>	<b>32</b>	<b>24</b>	<b>38.4</b>	<b>48</b>			<b>700</b>	<b>--</b>	<b>---</b>	<b>300</b>							
<ul style="list-style-type: none"> <li>Student contact hours per week : 32 Hours (Min.)</li> </ul>						<ul style="list-style-type: none"> <li>Total Marks for B.Sc.-II (Including EVS) : <b>1000</b></li> </ul>														
<ul style="list-style-type: none"> <li>Theory and Practical Lectures : 48 Minutes Each</li> </ul>						<ul style="list-style-type: none"> <li>Total Credits for B.Sc.-II (Semester III &amp; IV) : <b>52</b></li> </ul>														
<ul style="list-style-type: none"> <li><b>DSC</b> : - Discipline Specific Core Course : Select any 3 subject pairs, relevant to those opted as 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.</li> </ul>																				
<ul style="list-style-type: none"> <li><b>AECC</b>- Ability Enhancement Compulsory Course (1C) : Environmental Studies: EVS ( Theory – 70 &amp; Project – 30 Marks)</li> </ul>																				
<ul style="list-style-type: none"> <li>Practical Examination will be conducted annually for 100 Marks per course (subject).</li> </ul>																				
<ul style="list-style-type: none"> <li><i>Except Environmental Studies, combined passing for two theory papers of 50 marks each. i.e. Min. 35 marks required for passing out of 100.</i></li> </ul>																				
<ul style="list-style-type: none"> <li><i>There shall be separate passing for theory and practical courses also for Environmental Studies.</i></li> </ul>																				



## ii) Structure of B. Sc. Programme Sem V & VI

### Structure - III

SEMESTER – V (Duration – 6 Months)														
Sr. No.	Subject Title	TEACHING SCHEME						EXAMINATION SCHEME						
		THEORY			PRACTICAL			THEORY				PRACTICAL		
		Credits	No. of lectures	Hours	Credits	No. of lectures	Hours	Hours	Theory	Internal	Min Marks	Hours	Max Marks	Min Marks
1	DSE-E	2	3	2.4	8	20	16	2	40	10	14+4=18	PRACTICAL EXAMINATION IS ANNUAL		
2	DSE-E	2	3	2.4				2	40	10	14+4=18			
3	DSE-E	2	3	2.4				2	40	10	14+4=18			
4	DSE-E	2	3	2.4				2	40	10	14+4=18			
5	AECC-E	2	4	3.2				---	---	---	2			
<b>TOTAL</b>		<b>10</b>	<b>16</b>	<b>12.8</b>	<b>8</b>	<b>20</b>	<b>16</b>		<b>200</b>	<b>50</b>	<b>---</b>			
SEMESTER – VI (Duration – 6 Months)														
1	DSE-F	2	3	2.4	8	20	16	2	40	10	14+4=18	As per BOS Guidelines	200	70
2	DSE-F	2	3	2.4				2	40	10	14+4=18			
3	DSE-F	2	3	2.4				2	40	10	14+4=18			
4	DSE-F	2	3	2.4				2	40	10	14+4=18			
5	AECC-F	2	4	3.2				---	---	---	2	40	10	14+4=18
<b>TOTAL</b>		<b>10</b>	<b>16</b>	<b>12.8</b>	<b>8</b>	<b>20</b>	<b>16</b>		<b>200</b>	<b>50</b>	<b>---</b>			
<b>GRAND TOTAL</b>		<b>20</b>	<b>32</b>	<b>25.6</b>	<b>16</b>	<b>40</b>	<b>32</b>		<b>400</b>	<b>100</b>	<b>--</b>	<b>---</b>	<b>200</b>	
<ul style="list-style-type: none"> <li>• Student contact hours per week : 32 Hours (Min)</li> <li>• Theory and Practical Lectures : 48 Min. Each</li> <li>• <b>DSE- Discipline Specific Elective.</b> 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</li> <li>• <b>AECC-</b> Ability Enhancement Compulsory Course (E &amp; F) : English</li> <li>• Practical Examination will be conducted annually for 200 Marks.</li> <li>• <b>There shall be separate passing for theory, internal and practical.</b></li> </ul>														
<p>(A) <b>Non-Credit Self Study Course : Compulsory Civic Courses (CCC)</b>  <b>For Sem V: CCC – II :</b> Constitution of India and Local Self Government</p>														
<p>(B) <b>Non-Credit Self Study Course : Skill Development Courses (SDC)</b>  <b>For Sem VI: SDC – II:</b> Any one from following (vi) to (x)  vi) Interview &amp; Personal Presentation Skill, vii) Entrepreneurship Development Skill, viii) Travel &amp; Tourism, ix) E-Banking &amp; Financial Services, x) RTI &amp; Human Right Education (HRE), IPR &amp; Patents</p>														

**CBCS R.B. Sc. 3: (B) List of courses:**

i) B. Sc. Part 1 (Sem I &amp; II),

Course code	Name of Course	Course code	Name of Course
<b>B. Sc. 1: Sem I DSC – 1A to 38 A</b>			
<b>DSC A1</b>	Physics I	<b>DSC A21</b>	Geology I
<b>DSC A2</b>	Physics II	<b>DSC A22</b>	Geology II
<b>DSC A3</b>	Chemistry I	<b>DSC A23</b>	Seed Technology I
<b>DSC A4</b>	Chemistry II	<b>DSC A24</b>	Seed Technology II
<b>DSC A5</b>	Mathematics I	<b>DSC A25</b>	Microbiology I
<b>DSC A6</b>	Mathematics II	<b>DSC A26</b>	Microbiology II
<b>DSC A7</b>	Statistics I	<b>DSC A27</b>	Industrial Microbiology I
<b>DSC A8</b>	Statistics II	<b>DSC A28</b>	Industrial Microbiology II
<b>DSC A9</b>	Electronics I	<b>DSC A29</b>	Biochemistry I
<b>DSC A10</b>	Electronics II	<b>DSC A30</b>	Biochemistry II
<b>DSC A11</b>	Computer Science I	<b>DSC A31</b>	Psychology I
<b>DSC A12</b>	Computer Science II	<b>DSC A32</b>	Psychology II
<b>DSC A13</b>	Botany I	<b>DSC A33</b>	Food Science & Quality control I
<b>DSC A14</b>	Botany II	<b>DSC A34</b>	Food Science & Quality control II
<b>DSC A15</b>	Zoology I	<b>DSC A35</b>	Astrophysics I
<b>DSC A16</b>	Zoology II	<b>DSC A36</b>	Astrophysics II
<b>DSC A17</b>	Biotechnology (Opt) I	<b>DSC A37</b>	Nanotechnology (opt) I
<b>DSC A18</b>	Biotechnology (Opt) II	<b>DSC A38</b>	Nanotechnology (opt) II
<b>DSC A19</b>	Geography I		
<b>DSC A20</b>	Geography II	<b>AECC – A</b>	English – I

DSC: Discipline Specific Core Course

AECC – Ability Enhancement Compulsory Course

## Sem II : DSC – 1B to 38B

Course code	Name of Course	Course code	Name of Course
<b>B. Sc. 1: Sem II DSC – 1B to 38B</b>			
<b>DSC B1</b>	Physics III	<b>DSC B21</b>	Geology III
<b>DSC B2</b>	Physics IV	<b>DSC B22</b>	Geology IV
<b>DSC B3</b>	Chemistry III	<b>DSC B23</b>	Seed Technology III
<b>DSC B4</b>	Chemistry IV	<b>DSC B24</b>	Seed Technology IV
<b>DSC B5</b>	Mathematics III	<b>DSC B25</b>	Microbiology III
<b>DSC B6</b>	Mathematics IV	<b>DSC B26</b>	Microbiology IV
<b>DSC B7</b>	Statistics III	<b>DSC B27</b>	Industrial Microbiology III
<b>DSC B8</b>	Statistics IV	<b>DSC B28</b>	Industrial Microbiology IV
<b>DSC B9</b>	Electronics III	<b>DSC B29</b>	Biochemistry III
<b>DSC B10</b>	Electronics IV	<b>DSC B30</b>	Biochemistry IV
<b>DSC B11</b>	Computer Science III	<b>DSC B31</b>	Psychology III
<b>DSC B12</b>	Computer Science IV	<b>DSC B32</b>	Psychology IV
<b>DSC B13</b>	Botany III	<b>DSC B33</b>	Food Science & Quality control III
<b>DSC B14</b>	Botany IV	<b>DSC B34</b>	Food Science & Quality control IV
<b>DSC B15</b>	Zoology III	<b>DSC B35</b>	Astrophysics III
<b>DSC B16</b>	Zoology IV	<b>DSC B36</b>	Astrophysics IV
<b>DSC B17</b>	Biotechnology (Opt) III	<b>DSC B37</b>	Nanotechnology (opt) III
<b>DSC B18</b>	Biotechnology (Opt) IV	<b>DSC B38</b>	Nanotechnology (opt) IV
<b>DSC B19</b>	Geography III		
<b>DSC B20</b>	Geography IV	<b>AECC – B</b>	English – II

**ii) B.Sc. Part 2 (Sem III & IV)**

Course code	Name of Course	Course code	Name of Course
<b>B. Sc. 2: Sem III DSC – 1C to 38C</b>			
<b>DSC C1</b>	Physics V	<b>DSC C21</b>	Geology V
<b>DSC C2</b>	Physics VI	<b>DSC C22</b>	Geology VI
<b>DSC C3</b>	Chemistry V	<b>DSC C23</b>	Seed Technology V
<b>DSC C4</b>	Chemistry VI	<b>DSC C24</b>	Seed Technology VI
<b>DSC C5</b>	Mathematics V	<b>DSC C25</b>	Microbiology V
<b>DSC C6</b>	Mathematics VI	<b>DSC C26</b>	Microbiology VI
<b>DSC C7</b>	Statistics V	<b>DSC C27</b>	Industrial Microbiology V
<b>DSC C8</b>	Statistics VI	<b>DSC C28</b>	Industrial Microbiology VI
<b>DSC C9</b>	Electronics V	<b>DSC C29</b>	Biochemistry V
<b>DSC C10</b>	Electronics VI	<b>DSC C30</b>	Biochemistry VI
<b>DSC C11</b>	Computer Science V	<b>DSC C31</b>	Psychology V
<b>DSC C12</b>	Computer Science VI	<b>DSC C32</b>	Psychology VI
<b>DSC C13</b>	Botany V	<b>DSC C33</b>	Food Science & Quality control V
<b>DSC C14</b>	Botany VI	<b>DSC C34</b>	Food Science & Quality control VI
<b>DSC C15</b>	Zoology V	<b>DSC C35</b>	Astrophysics V
<b>DSC C16</b>	Zoology VI	<b>DSC C36</b>	Astrophysics VI
<b>DSC C17</b>	Biotechnology (Opt) V	<b>DSC C37</b>	Nanotechnology (opt) V
<b>DSC C18</b>	Biotechnology (Opt) VI	<b>DSC C38</b>	Nanotechnology (opt) VI
<b>DSC C19</b>	Geography V	*	
<b>DSC C20</b>	Geography VI		

**\*Interdisciplinary Courses (IDS) (DSC - IC)**

<b>DSC IC39</b>	Astrophysics I	<b>DSC IC45</b>	Plant Protection I
<b>DSC IC40</b>	Astrophysics II	<b>DSC IC46</b>	Plant Protection II
<b>DSC IC41</b>	Geochemistry I	<b>DSC IC47</b>	Pollution I
<b>DSC IC42</b>	Geochemistry II	<b>DSC IC48</b>	Pollution II
<b>DSC IC43</b>	Biochemistry I	<b>DSC IC49</b>	Fisheries I
<b>DSC IC44</b>	Biochemistry II	<b>DSC IC50</b>	Fisheries II

## Sem – IV

Course code	Name of Course	Course code	Name of Course
<b>B. Sc. 2: Sem IV DSC – 1D to 38D</b>			
<b>DSC D1</b>	Physics VII	<b>DSC D20</b>	Geography VIII
<b>DSC D2</b>	Physics VIII	<b>DSC D21</b>	Geology VII
<b>DSC D3</b>	Chemistry VII	<b>DSC D22</b>	Geology VIII
<b>DSC D4</b>	Chemistry VIII	<b>DSC D23</b>	Seed Technology VII
<b>DSC D5</b>	Mathematics VII	<b>DSC D24</b>	Seed Technology VIII
<b>DSC D6</b>	Mathematics VIII	<b>DSC D25</b>	Microbiology VII
<b>DSC D7</b>	Statistics VII	<b>DSC D26</b>	Microbiology VIII
<b>DSC D8</b>	Statistics VIII	<b>DSC D27</b>	Industrial Microbiology VII
<b>DSC D9</b>	Electronics VII	<b>DSC D28</b>	Industrial Microbiology VIII
<b>DSC D10</b>	Electronics VIII	<b>DSC D29</b>	Biochemistry VII
<b>DSC D11</b>	Computer Science VII	<b>DSC D30</b>	Biochemistry VIII
<b>DSC D12</b>	Computer Science VIII	<b>DSC D31</b>	Psychology VII
<b>DSC D13</b>	Botany VII	<b>DSC D32</b>	Psychology VIII
<b>DSC D14</b>	Botany VIII	<b>DSC D33</b>	Food Science & Quality control VII
<b>DSC D15</b>	Zoology VII	<b>DSC D34</b>	Food Science & Quality control VIII
<b>DSC D16</b>	Zoology VIII	<b>DSC D35</b>	Astrophysics VII
<b>DSC D17</b>	Biotechnology (Opt) VII	<b>DSC D36</b>	Astrophysics VIII
<b>DSC D18</b>	Biotechnology (Opt) VIII	<b>DSC D37</b>	Nanotechnology (opt) VII
<b>DSC D19</b>	Geography VII	<b>DSC D38</b>	Nanotechnology (opt) VIII
		*	
<b>AECC C Environmental Studies (Theory Paper)</b>			
<b>AECC D Environmental Studies (Project)</b>			

### \*Interdisciplinary Courses (IDS) (DSC – ID)

<b>DSC ID39</b>	Astrophysics III	<b>DSC ID45</b>	Plant Protection III
<b>DSC ID40</b>	Astrophysics IV	<b>DSC ID46</b>	Plant Protection IV
<b>DSC ID41</b>	Geochemistry III	<b>DSC ID47</b>	Pollution III
<b>DSC ID42</b>	Geochemistry IV	<b>DSC ID48</b>	Pollution IV
<b>DSC ID43</b>	Biochemistry III	<b>DSC ID49</b>	Fisheries III
<b>DSC ID44</b>	Biochemistry IV	<b>DSC ID50</b>	Fisheries IV

### iii) B. Sc. Part 3 (Sem V & VI)

#### Discipline Specific Elective (DSE)

Course code	Name of Course	Course code	Name of Course
<b>B. Sc. 3: Sem V DSE – 1E to 84E</b>			
<b>DSE E1</b>	Physics IX	<b>DSE E45</b>	Seed Technology IX
<b>DSE E2</b>	Physics X	<b>DSE E46</b>	Seed Technology X
<b>DSE E3</b>	Physics XI	<b>DSE E47</b>	Seed Technology XI
<b>DSE E4</b>	Physics XII	<b>DSE E48</b>	Seed Technology XII
<b>DSE E5</b>	Chemistry IX	<b>DSE E49</b>	Microbiology IX
<b>DSE E6</b>	Chemistry X	<b>DSE E50</b>	Microbiology X
<b>DSE E7</b>	Chemistry XI	<b>DSE E51</b>	Microbiology XI
<b>DSE E8</b>	Chemistry XII	<b>DSE E52</b>	Microbiology XII
<b>DSE E9</b>	Mathematics IX	<b>DSE E53</b>	Industrial Microbiology IX
<b>DSE E10</b>	Mathematics X	<b>DSE E54</b>	Industrial Microbiology X
<b>DSE E11</b>	Mathematics XI	<b>DSE E55</b>	Industrial Microbiology XI
<b>DSE E12</b>	Mathematics XII	<b>DSE E56</b>	Industrial Microbiology XII
<b>DSE E13</b>	Statistics IX	<b>DSE E57</b>	Biochemistry IX
<b>DSE E14</b>	Statistics X	<b>DSE E58</b>	Biochemistry X
<b>DSE E15</b>	Statistics XI	<b>DSE E59</b>	Biochemistry XI
<b>DSE E16</b>	Statistics XII	<b>DSE E60</b>	Biochemistry XII
<b>DSE E17</b>	Electronics IX	<b>DSE E61</b>	Psychology IX
<b>DSE E18</b>	Electronics X	<b>DSE E62</b>	Psychology X
<b>DSE E19</b>	Electronics XI	<b>DSE E63</b>	Psychology XI
<b>DSE E20</b>	Electronics XII	<b>DSE E64</b>	Psychology XII
<b>DSE E21</b>	Computer Science IX	<b>DSE E65</b>	Food Science & Quality control IX
<b>DSE E22</b>	Computer Science X	<b>DSE E66</b>	Food Science & Quality control X
<b>DSE E23</b>	Computer Science XI	<b>DSE E67</b>	Food Science & Quality control XI
<b>DSE E24</b>	Computer Science XII	<b>DSE E68</b>	Food Science & Quality control XII
<b>DSE E25</b>	Botany IX	<b>DSE E69</b>	Plant Protection V
<b>DSE E26</b>	Botany X	<b>DSE E70</b>	Plant Protection VI
<b>DSE E27</b>	Botany XI	<b>DSE E71</b>	Plant Protection VII
<b>DSE E28</b>	Botany XII	<b>DSE E72</b>	Plant Protection VIII
<b>DSE E29</b>	Zoology IX	<b>DSE E73</b>	Fisheries V
<b>DSE E30</b>	Zoology X	<b>DSE E74</b>	Fisheries VI

<b>DSE E31</b>	Zoology XI	<b>DSE E75</b>	Fisheries VII
<b>DSE E32</b>	Zoology XII	<b>DSE E76</b>	Fisheries VIII
<b>DSE E33</b>	Biotechnology (Opt) IX	<b>DSE E77</b>	Astrophysics IX
<b>DSE E34</b>	Biotechnology (Opt) X	<b>DSE E78</b>	Astrophysics X
<b>DSE E35</b>	Biotechnology (Opt) XI	<b>DSE E79</b>	Astrophysics XI
<b>DSE E36</b>	Biotechnology (Opt) XII	<b>DSE E80</b>	Astrophysics XII
<b>DSE E37</b>	Geography IX	<b>DSE E81</b>	Nanotechnology (Opt)IX
<b>DSE E38</b>	Geography X	<b>DSE E82</b>	Nanotechnology (Opt)X
<b>DSE E39</b>	Geography XI	<b>DSE E83</b>	Nanotechnology (Opt)XI
<b>DSE E40</b>	Geography XII	<b>DSE E84</b>	Nanotechnology (Opt)XII
<b>DSE E41</b>	Geology IX		
<b>DSE E42</b>	Geology X		
<b>DSE E43</b>	Geology XI		
<b>DSE E44</b>	Geology XII	<b>AECC E</b>	English III

## Sem – VI

Course code	Name of Course	Course code	Name of Course
<b>B. Sc. 3: Sem VI DSE – 1F to 84F</b>			
<b>DSE F1</b>	Physics XIII	<b>DSE F45</b>	Seed Technology XIII
<b>DSE F2</b>	Physics XIV	<b>DSE F46</b>	Seed Technology XIV
<b>DSE F3</b>	Physics XV	<b>DSE F47</b>	Seed Technology XV
<b>DSE F4</b>	Physics XVI	<b>DSE F48</b>	Seed Technology XVI
<b>DSE F5</b>	Chemistry XIII	<b>DSE F49</b>	Microbiology XIII
<b>DSE F6</b>	Chemistry XIV	<b>DSE F50</b>	Microbiology XIV
<b>DSE F7</b>	Chemistry XV	<b>DSE F51</b>	Microbiology XV
<b>DSE F8</b>	Chemistry XVI	<b>DSE F52</b>	Microbiology XVI
<b>DSE F9</b>	Mathematics XIII	<b>DSE F53</b>	Industrial Microbiology XIII
<b>DSE F10</b>	Mathematics XIV	<b>DSE F54</b>	Industrial Microbiology XIV
<b>DSE F11</b>	Mathematics XV	<b>DSE F55</b>	Industrial Microbiology XV
<b>DSE F12</b>	Mathematics XVI	<b>DSE F56</b>	Industrial Microbiology XVI
<b>DSE F13</b>	Statistics XIII	<b>DSE F57</b>	Biochemistry XIII
<b>DSE F14</b>	Statistics XIV	<b>DSE F58</b>	Biochemistry XIV
<b>DSE F15</b>	Statistics XV	<b>DSE F59</b>	Biochemistry XV
<b>DSE F16</b>	Statistics XVI	<b>DSE F60</b>	Biochemistry XVI
<b>DSE F17</b>	Electronics XIII	<b>DSE F61</b>	Psychology XIII
<b>DSE F18</b>	Electronics XIV	<b>DSE F62</b>	Psychology XIV
<b>DSE F19</b>	Electronics XV	<b>DSE F63</b>	Psychology XV
<b>DSE F20</b>	Electronics XVI	<b>DSE F64</b>	Psychology XVI
<b>DSE F21</b>	Computer Science XIII	<b>DSE F65</b>	Food Science & Quality control XIII
<b>DSE F22</b>	Computer Science XIV	<b>DSE F66</b>	Food Science & Quality control XIV
<b>DSE F23</b>	Computer Science XV	<b>DSE F67</b>	Food Science & Quality control XV
<b>DSE F24</b>	Computer Science XVI	<b>DSE F68</b>	Food Science & Quality control XVI
<b>DSE F25</b>	Botany XIII	<b>DSE F69</b>	Plant Protection IX
<b>DSE F26</b>	Botany XIV	<b>DSE F70</b>	Plant Protection X
<b>DSE F27</b>	Botany XV	<b>DSE F71</b>	Plant Protection XI
<b>DSE F28</b>	Botany XVI	<b>DSE F72</b>	Plant Protection XII
<b>DSE F29</b>	Zoology XIII	<b>DSE F73</b>	Fisheries IX
<b>DSE F30</b>	Zoology XIV	<b>DSE F74</b>	Fisheries X
<b>DSE F31</b>	Zoology XV	<b>DSE F75</b>	Fisheries XI



<b>DSE F32</b>	Zoology XVI	<b>DSE F76</b>	Fisheries XII
<b>DSE F33</b>	Biotechnology (Opt) XIII	<b>DSE F77</b>	Astrophysics XIII
<b>DSE F34</b>	Biotechnology (Opt) XIV	<b>DSE F78</b>	Astrophysics XIV
<b>DSE F35</b>	Biotechnology (Opt) XV	<b>DSE F79</b>	Astrophysics XV
<b>DSE F36</b>	Biotechnology (Opt) XVI	<b>DSE F80</b>	Astrophysics XVI
<b>DSE F37</b>	Geography XIII	<b>DSE F81</b>	Nanotechnology (Opt) XIII
<b>DSE F38</b>	Geography XIV	<b>DSE F82</b>	Nanotechnology (Opt) XIV
<b>DSE F39</b>	Geography XV	<b>DSE F83</b>	Nanotechnology (Opt) XV
<b>DSE F40</b>	Geography XVI	<b>DSE F84</b>	Nanotechnology (Opt) XVI
<b>DSE F41</b>	Geology XIII		
<b>DSE F42</b>	Geology XIV		
<b>DSE F43</b>	Geology XV		
<b>DSE F44</b>	Geology XVI	<b>AECC F</b>	English IV

**Ordinance:**

O. B. Sc. 1	<p>A) i) The students passing the Higher Secondary Examination conducted by the Maharashtra State Board of Higher Secondary Education, Pune with science stream shall be allowed to enter upon the B. Sc. Part-I Course.</p> <p style="text-align: center;">OR</p> <p>ii) The Pre-Degree Science Examination of this University.</p> <p style="text-align: center;">OR</p> <p>iii) An examination of any other statutory University or an examining Body recognised as equivalent thereto.</p> <p>B) No candidate shall be admitted to the B. Sc. Part-I Examination unless he has satisfactorily kept two terms for the course at a College affiliated to this University.</p>
O. B. Sc. 2	<p>A) No candidates shall be allowed to enter the course for the B. Sc. Part-II examination unless he has passed the B. Sc. Part-I examination or an examination of any other statutory University recognised as equivalent thereto.</p> <p>A candidate will be admitted to B.Sc. Part – II examination of this university, if he/she passes in all heads passing of university examination of B.Sc. Part – I (Sem. I &amp; II taken together) or he will be allowed to keep term for B.Sc. Part – II if he/she is fail in not more than four heads of university examination i.e. Theory or Practical of B.Sc. Part – I (Sem. I &amp; II taken together).</p> <p>(Note : Theory and Practical are separate heads of passing. A candidate may fail in not more than four heads of Theory or Practical examination</p> <p>Internal Examination will be compulsory for all students. If the student is absent/fail in internal examination then he/she will have to clear the internal examination in subsequent attempt in following semester.</p> <p>There will be a separate head of passing in Theory, Internal and Practical. However, ATKT rules will be followed in respect of Theory or Practical heads of passing only .</p> <p>B) No candidate shall be admitted to the B. Sc. Part-II examination unless he has satisfactorily kept two terms for the same at a College affiliated to this University.</p>
O. B. Sc.3	<p><b>A) No candidate shall be allowed to enter upon the course for the B. Sc. Part-III examination unless he has passed the B. Sc. Part-II examination of this University or an examination of any other Statutory University, recognised as equivalent thereto. Such a candidate must have cleared B. Sc. Part-I Examination.</b></p> <p><u>A candidate will be admitted to B.Sc. Part – III examination of this university, if he/she passes in all heads passing of university examination of B.Sc. Part – II (Sem. III &amp; IV taken together) or he will be allowed to keep term for B.Sc. Part – III if he/she is fail in not more than four heads of university examination i.e. Theory or Practical of B.Sc. Part – II (Sem. III &amp; IV taken together).</u></p> <p><u>Internal Examination will be compulsory for all students. If the student is absent/fail in internal examination then he/she will have to clear the internal examination in subsequent attempt in following semester.</u></p> <p><u>There will be a separate head of passing in Theory, Internal and Practical. However, ATKT rules will be followed in respect of Theory or Practical heads of passing only .</u></p>

	<p><b>B) No candidate shall be admitted to the B. Sc. Part-III Examination unless he has satisfactorily kept two terms for the same at a College affiliated to the University.</b></p>
<p><b>O. B. Sc. 4</b></p>	<p><b>Standard of Passing at B. Sc. Examination</b></p> <p>a) For a subject all papers shall form a separate head of passing i.e. Theory, Internal and the Practical.</p> <p>b) A student shall have to secure 35% of marks in Theory, Internal and Practical examination separately in order to pass in those heads of passing. He shall be declared to have passed the examination if he passes in all heads of passing at Parts-I, II &amp; III semester examinations separately.</p> <p>c) In order to secure a Second Class with Hons., a candidate shall have to obtain at least 45% marks in the aggregate at University Examination.</p> <p>d) In order to secure a First Class with Hons. a candidate shall have to obtain at least 60% of marks in the aggregate at University examination.</p> <p>e) A student shall be declared to have passed in First Class (Hons.) with Distinction, if he gets at least 70% of marks in the aggregate at University examination.</p> <p>f) The class will be awarded on the aggregate total of all the subjects of Parts-I, II &amp; III examinations, excluding the marks of English or Foundation Course at B. Sc. Part-III and English at B. Sc. Part-I.</p> <p>g) <b>A. T. K. T.:</b> A candidate will be admitted to B.Sc. Part – II examination of this university, if he/she passes in all heads of passing of university examination of B.Sc. Part – I (Sem. I &amp; II taken together) or he will be allowed to keep term for B.Sc. Part – II if he/she is fail in not more than four heads of Theory OR Practical examination of B.Sc. Part – I (Sem. I &amp; II taken together).</p> <p>A candidate will be admitted to B.Sc. Part – III examination of this university, if he/she passes in all heads passing of university examination of B.Sc. Part – II (Sem. III &amp; IV taken together) or he will be allowed to keep term for B.Sc. Part – III if he/she is fail in not more than four heads of Theory OR Practical examination of B.Sc. Part – II (Sem. III &amp; IV taken together).</p> <p><b>(Note :Theory and Practicals are separate heads of passing. A candidate may fail in not more than four heads of university examination.</b></p> <p>Internal Examination will be compulsory for all students. If the student is absent/fail in internal examination then he/she will have to clear the internal examination. There will be a separate head of passing in Theory, Practical &amp; Internal examination . However, ATKT rules will be followed in respect of Theory or Practical heads of passing only in subsequent attempt in following semester.)</p>