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Department of Examination



Handbook of Examination
For Choice-Based Credit System (CBCS)
(SemesterPattern)
Undergraduate Courses (UG)



**Savitribai Phule
Pune University**

RULES AND REGULATIONS

for

**UG Choice Based Credit System for BA
Program under the Faculty of Humanities**

Effective from June 2019

Background/Preamble:

Education plays an enormously significant role in the building of a nation. There are quite a large number of educational institutions, engaged in imparting education in our country. Majority of them have entered recently into semester system to match international educational pattern. However, our present education system is churning out youth who have to compete locally, regionally, nationally as well as globally. The present alarming situation necessitates transformation and/or redesigning of system, not only by introducing innovations but also developing learner-centric approach.

Majority of Indian higher education institutions have been following the system which obstructs the flexibility for the students to study the subjects/courses of their choice and their mobility to different institutions. There is need to allow the flexibility in education system, so that students depending upon their interests can choose inter-disciplinary, interdisciplinary and skill-based courses. This can only be possible when choice based credit system (CBCS), an internationally acknowledged system is adopted. The choice based credit system not only offers opportunities and avenues to learn core subjects but also explores additional avenues of learning beyond the core subjects for holistic development of an individual. The CBCS will undoubtedly facilitate benchmarking of our courses with best international academic practices.

Preface:

Considering the change in nature of higher education and input given by new education policy, SPPU has been implementing all Under-graduate programmes under the Faculty of Humanities from June 2019. As per the decisions by the authorities of Savitribai Phule Pune University, the Faculty of Humanities has prepared choice based credit system and its structure. The revised course is of 132 credits and 1 credit is equivalent to 15 hours. Assessment in credit system consists of:

- a) in-semester continuous assessment
- b) end-semester assessment for the oral/presentation at the end of the semester

The Faculty of Humanities has shouldered the idea of incorporating latest advances and equips the subjects /syllabus contents with latest and relevant topics and know-hows. Accordingly the new structure and syllabi are being introduced, to be implemented from the academic year 2019- 20 from First Year and it will continue for subsequent years.

1. All UG programmes, under the Faculty of Humanities shall be offered with credit system.
2. All the BA programmes running under the Faculty of Humanities will be of three years

duration.

3. The total no. of credits required for the completion of the programme is 132 credits.
4. One credit is equivalent to 15 hours.
5. A student is required to earn 132 credits in a minimum period of six semesters
6. The final CGPA will be calculated on the basis of 132 credits.
7. There is a 15 week of teacher-student interaction during the semester.
8. The 15 week is divided into 12 weeks teaching and 3 weeks for continuous assessment including preparation time to students during the semester (for theory course).
9. Advantages of the Choice based credit system:
10. Shift in focus from the teacher-centric to student-centric education.
11. CBCS allows students to choose inter-disciplinary, intra-disciplinary courses, skill oriented papers (even from other disciplines according to their learning needs, interests and aptitude) and more flexibility for students.

I. Implementation of UG course structure:

1. For first year: student has to select 6 core courses offered by the college/institute.
 - i) F.Y. B.A. – Semester – I student has to select among 6 Core Courses, a total of 18 credits (Compulsory English included)
 - ii) F.Y. B.A. – Semester – II student has to select among 6 Core Courses, a total of 18 credits (Compulsory English included)
2. For second year: student has to select 5 subjects among the courses offered by the college/institute.
 - i) S.Y. B.A.- Semester -III student has to select among 5 courses, a total of 22 credits (2 Core Courses, 1 Ability Enhancement Compulsory Course (AEC), 2 Skill Enhancement Courses (SEC), 2 Discipline Specific Elective Courses (DSE) and Compulsory English)
 - ii) S.Y. B.A.- Semester -IV student has to select among 5 courses, a total of 24 credits (2 Core Courses, 1 Ability Enhancement Compulsory Course (AEC), 2 Skill Enhancement Courses (SEC), 2 Discipline Specific Elective Courses (DSE) and Compulsory English)
3. For third year: student has to select 6 different subjects among the subjects offered by the college/institute.
 - i) T.Y. B.A.- Semester -V student has to select among 5 courses, a total of 25 credits [2 Core Courses, 1 Ability Enhancement Compulsory Course (AEC) MIL (Language/Communication), 2 Skill Enhancement Courses (SEC), 2 Discipline

Specific Elective Courses (DSE), 2 Generic Elective (GE) and Compulsory English]

ii) T.Y. B.A.- Semester -VI student has to select among 5 courses, a total of 25 credits [2 Core Courses, 1 Ability Enhancement Compulsory Course (AEC) MIL (Language/Communication), 2 Skill Enhancement Courses (SEC), 2 Discipline Specific Elective Courses (DSE), 2 Generic Elective (GE) and Compulsory English]

4. CGPA will be calculated on the basis of total 132 credits only
5. Each theory credit is equivalent to 15 clock hours of teaching
6. There are 15 weeks of teacher-student interaction during the semester.
7. The 15 weeks are divided into 12 weeks teaching and 3 weeks for continuous assessment including preparation time to students during the semester (for theory course).
8. Each theory lecture for FY, SY, TY is of 50 mins.
9. Exam pattern : University assessment 70% and continuous internal assessment 30%
10. For Internal Examination minimum two tests per paper of which one has to be written test of 10 marks.
11. Methods of assessment for internal exams: seminars. Viva-voca, projects, surveys, field visits, tutorials, assignments, group discussions.

II. **Outlines of Choice Based Credit System [Detailed description of the courses]**

- a) **Core Course (14 for honours courses; 4 discipline specific papers each for regular courses):**The papers under this category are going to be taught uniformly across all universities with 30% deviation proposed in the draft. The purpose of fixing core papers is to ensure that all the institutions follow a minimum common curriculum so that each institution/university adheres to common minimum standard. Also the course designed for papers under this category aim to cover the basics that a student is expected to imbibe in that particular discipline. A course, which should compulsorily be studied by a candidate as a core requirement is termed as a Core Course.
- b) **Elective Course:** Generally a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline/subject of study or which provides an extended scope or which enables an exposure to some other discipline/subject/domain or nurtures the candidates proficiency/skill is called and Elective Course.

- i) **Discipline Specific Elective (DSE) Course:** (4 for Honours courses and 2 each for regular courses): Elective course offered under the main discipline/subject of study is referred to as a Discipline Specific Elective. The list provided under this category are suggestive in nature and each university has complete freedom to suggest their own papers under this category based on theory, expertise, specialization, requirements, scope and need. The University/institute may also offer discipline related Elective courses if interdisciplinary nature (to be offered by main discipline/subject of study)
- ii) **Dissertation/Project:** An elective course designed to acquire special/advanced knowledge, such as supplement study/support study to a project work and a candidate studies such a course on his own with an advisory support by a teacher/faculty member id called dissertation/project.

P.S.: A Core Course offered in a discipline/subject may be treated as an elective by other discipline/subject and vice-versa and such electives may also be referred to as Generic Elective.

- c) **Ability Enhancement Courses (AEC):** The Ability Enhancement (AE) Courses may be of two kinds: Ability Enhancement Compulsory Courses (AECC) and Skill Enhancement Courses (SEC). “AECC” courses are the courses based upon the English/Hindi/MIL Communication. These are mandatory for all disciplines. SEC courses are value-based and/or skill-based and are aimed at providing hands-on training, competencies, skills, etc.
 - i) **Ability Enhancement Compulsory Courses (AECC):** Environmental Science, English Communication/Hindi Communication/ MIL Communication.
 - ii) **Skill Enhancement Courses (SEC)** (minimum 4 for regular courses): These courses may be chosen from a pool of courses designed to provide value-based and/or skill-based knowledge and should contain both theory and lab/hands-on/training/field work. The main purpose of these courses is to provide students life-skills in hands-on mode so as to increase their employability. The list provided under this category are suggestive in nature and each University has complete freedom to suggest their expertise, specialization, requirements, scope and need.
- d) **Practical/tutorials:** (One each with every core and discipline/generic specific elective paper). The list of practical provided is suggestive in nature and each university has the freedom to add/subtract/edit practical from the list depending on their faculty and infrastructure available. Addition will however be of similar nature.
- e) **Introducing Research Component in Under-Graduate Courses Project**

work/dissertation is considered as a special course involving application of knowledge in solving/analyzing/exploring a real life situation/difficult problem. A project/Dissertation work would be of 6 credits. A project/Dissertation work may be given in lieu of a discipline specific elective paper.

III. Eligibility for Admission:

First Year – B.A.: Higher Secondary School Certificate (10+2) or its equivalent Examination with English as a passing subject.

Admissions will be given as per the selection procedure /policies adopted by the respective college keeping in accordance with conditions laid down by SPPU.

Reservation and relaxation will be as per the Government rules.

IV. Medium of instruction: Marathi/English

V. Award of Credits:

- i) Each course having 3 credits shall be evaluated out of 70 marks and student should secure at least 28 marks (40%) in continuous assessment as well as term end exam to earn full credits of that course.
- ii) Each course having 3 credits shall be evaluated out of 70 marks as student should secure at least 28 marks (40%) and in continuous assessment student should secure minimum 12 marks.

VI) Evaluation Pattern:

- i) The course carrying 100 marks shall be evaluated with continuous Assessment (CA) and University Evaluation (UE) mechanism.
- ii) Continuous assessment shall be of 30 marks while university evaluation shall be of 70 marks. To pass in a course of 3 credits, a student has to secure minimum 40 marks, provided that he should secure minimum 28 marks in University Evaluation (UE) and 12 marks (40%) in continuous assessment.
- iii) For internal examination minimum two tests per paper of which one has to be a written test of 10 marks.
- iv) Methods of assessment for internal exams: seminars, viva-voce, projects, surveys, field visits, tutorials, assignments, group discussion etc. (on approval of the head of the centre).
- v) There shall be revaluation of the answer scripts of semester-end examination of theory papers only but not of internal assessment papers as per ordinance no 134 A and B.



VII) ATKT Rules:

- i) Minimum 80% core courses have to be qualified in the Ist and IInd semester, then only will the student be allowed in the IIIrd semester (2nd year B.A).
- ii) Minimum 36 credits have to be earned by the students in the 1st year. Then students will be allowed in the 3rd year which means students have to clear all the compulsory courses of 1st year.

VIII) Completion of Degree Course:

A student who earns 132 credits, shall be considered to have completed the requirements of the B.A. degree program and CGPA will be calculated for such student, on the basis of only 132 credits. The following percentage to grade and grade point is given in the below table:

Percentage to Grade and Grade Points

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
9	Ab (Absent)		



1. B. A. Structure :

Semester	Core Courses (CC)	Ability Enhancement Compulsory Course (AEC)	Skill Enhancement Course (SEC)	Discipline Specific Elective Courses (DSE)	Generic Elective(GE)	Total Credit
I	Compulsory English (3)					18
	CC – 1 A (3)					
	CC – 2 A (3)					
	CC – 3 A (3)					
	CC – 4 A (3)					
CC – 5 A (3)						
II	Compulsory English (3)					18
	CC – 1 B (3)					
	CC – 2 B (3)					
	CC – 3 B (3)					
	CC – 4 B (3)					
CC – 5 B (3)						
III	Compulsory English (3)	Environment Science (2)	SEC 1 A(3)	DSE 1 A (3)		24
	MIL 2 (2)		SEC 2 A (2) (Value/skill based course)	DSE 2 A (3)		
	CC – 1 C (3)					
CC – 2 C (3)						
IV	Compulsory English (3)	Environment Science (2)	SEC 1 B (3)	DSE 1 B (3)		24
	MIL 2 (2)		SEC 2 B (2) (Value/skill based course)	DSE 2 B (3)		
	CC – 1 D (3)					
	CC – 2 D (3)					
V	Compulsory English (3)		SEC 1 C (3)	DSE 1 C (3)+1 Research Project, Field work etc	G.E. 1 (2)	24
	CC – 1 E (3)		SEC 2 C (2) (Value/skill based course)	DSE 2 C (3)+1 Research Project, Field work etc.		
	CC – 2 E (3)					
VI	Compulsory English (3)		SEC 1 D (3)	DSE1 D (3)+1 Research Project, Field work	G.E.2 (2)	24
	CC – 1 F (3)		SEC 2 D (2) (Value/skill based course)	DSE 2 D (3)+1 Research Project, Field work		
	CC – 2 F (3)					
Total Credit	76	04	20	28	04	132



2. B.A. Existing Pattern & New Pattern :

Semester	Existing Pattern	New CBCS Pattern
I	Compulsory English	Compulsory English (3)
	G 1 (General Paper)	CC – 1 A (3)
	G 2 (General Paper)	CC – 2 A(3)
	G 3 (General Paper)	CC – 3 A(3)
	G 4 (General Paper)	CC – 4 A(3)
	G 5 (General Paper)	CC – 5 A(3)
II	Compulsory English	Compulsory English (3)
	G 1 (General Paper)	CC – 1 B(3)
	G 2 (General Paper)	CC – 2 B(3)
	G 3 (General Paper)	CC – 3 B(3)
	G 4 (General Paper)	CC – 4 B(3)
	G 5 (General Paper)	CC – 5 B(3)
III	Compulsory English	Compulsory English (3)
		MIL 2 (2) (Modern Indian Languages)
	G 2 (General Paper)	CC 1 C (3)
	G 2 (General Paper)	CC 2 C (3)
	G 2 (General Paper)	SEC 1 A (3)
		SEC 2 A (2) (Skill Base Course of DSE Subject)
	S1 (Special 1)	DSE 1 A (3)
	S2 (Special 2)	DSE 2 A (3)
Environment Science	Environment Science (2)	
IV	Compulsory English	Compulsory English (3)
		MIL 2 (2) (Modern Indian Language)
	G 2 (General Paper)	CC 1 D (3)
	G 2 (General Paper)	CC 2 D (3)
	G 2 (General Paper)	SEC 1 B (3)
		SEC 2 B (2) (Skill Base Course of DSE Subject)
	S1 (Special 1)	DSE 1 B (3)
	S2 (Special 2)	DSE 2 B (3)
	(Special 1 & Special 2)	
Environment Science	Environment Science (2)	
V	Compulsory English	Compulsory English (3)
	G 3 (General Paper)	CC 1 E (3)
	G 3 (General Paper)	CC 2 E (3)
	G 3 (General Paper)	SEC 1 C (3)
		SEC 2 C (2) (Skill Base Course of DSE Subject)
	S 3 (Special 1)	DSE 1 C (3)+1 (Research Project, field visit, etc)
	S 4 (Special 2)	DSE 2 C (3)+1 (Research Project, Field visit etc)
		GE 2 A (2)

VI	Compulsory English	Compulsory English (3)
	G 3 (General Paper)	CC 1 F (3)
	G 3 (General Paper)	CC 2 F (3)
	G 3 (General Paper)	SEC 1 D (3)
		SEC 2 D (2) (Skill Base Course of DSE Subject)
	S 3 (Special 1)	DSE 1 D (3)+1 (Research Project, field visit etc)
	S 4 (Special 2)	DSE 2 D (3)+1 (Research Project, field visit etc)
		GE 2 B (2)

Note:

Semester V and VI -DSE 3+1 = One credit is for Research Project/field visit/ or any other subject-centric activities to be taken by the students in consultation with the concerned teacher.

GE: Generic Elective Course





**Savitribai Phule
Pune University**

RULES AND REGULATIONS

for

UG Choice Based Credit System for B.COM

Programme under the Faculty of Commerce

Effective from June 2019

Savitribai Phule Pune University
Faculty of Commerce & Management
Structure for Three - Year
B.Com. Degree course (Choice Based Credit System)
(2019 Pattern)
With effect from June 2019

Preamble:-

Commerce education is that area of education, which develops the required knowledge, skills and attitudes for the handling of Trade, Commerce and Industry. Commerce education is entirely different from other disciplines. Hence, it must chart Course routes to service the aspirations of the nation. To meet the growing needs of the business society, there is greater demand for sound development of commerce education. The relevance of commerce education has become more imperative, this means a marked change in the way commerce and management education is perceived in India. The Commerce education is dedicated to developing tomorrow's leaders, managers, and professionals.

The existing education system of imparting commerce education needs to be more dynamic to incorporate all local and global changes in the field of trade and commerce. The curriculum needs to be restructured accordingly. The learning inputs are required to be more update, skill based and with appropriate applications. This will be achieved through the introduction of Choice based Credit System at undergraduate level.

The choice based credit system offers a cafeteria approach where the students have the liberty to choose courses of their own choice. The credit system allows students to opt for additional courses where he /she can score more than the required credits. The system will focus on student centric learning methods, which include use of Information and Communication Technology, innovative methods of teaching and learning and emphasis on industry interaction to enable the learners to take up professional challenges more effectively.

1. INTRODUCTION

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

- | | |
|-----------------------|-----------|
| a. First Year B.Com. | 2019-2020 |
| b. Second Year B.Com. | 2020-2021 |
| c. Third Year B.Com. | 2021-2022 |

The B.Com. Degree Course will consist of six semesters divided into three Years.

The first year (Semester I and II) choice based credit system examination will be held at the end of the each semester.

The Second Year (Semester III and IV) and Third Year (Semester V and VI) choice based credit system examination will be held at the end of each semester.

2. ELIGIBILITY

- a) No Candidates shall be admitted to the First Year of the B.Com. 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.
- b) No candidate shall be admitted to the Third Semester examination of the second year unless he/ she has cleared first two semesters satisfactorily for the course at the college affiliated to this University.
- c) No candidate shall be admitted to the Third Year B.Com. (Fifth semester) Degree Course (**2019 pattern**) unless he/she has cleared all the papers of first and second semester Examination of F.Y. B.Com. and has satisfactorily kept terms for the second year (Third and Fourth Semester) and also fifth semester for the third year of B.Com) satisfactorily in a college affiliated to this University.

3. A.T.K.T. Rules :

- If a candidate fails in all the courses (subject heads) of passing of semester I shall be allowed to proceed semester II. However, a student who fails in four theory courses and two practical courses at semester I and II taken together may be admitted to semester III & IV.
- If a candidate fails in all the courses (subject heads) of passing of semester III shall be allowed to proceed to semester IV.
- If a candidate fails in all the courses (subject heads) of passing of semester V shall be allowed to proceed to semester VI. However, a student who fails in four theory courses and two practical courses at semester III and IV taken together may be admitted to semester V & VI.
- No candidate shall be allowed to proceed to semester V unless the candidate has cleared semester I & II in all courses (Subjects).
- ATKT rules are applicable for 2nd and 4th semester.



4. COURSES CARRYING PRACTICALS

- a) Each practical course will be of one credit.
- b) There will be practical and practical examination for semester I and II of the F.Y.B.Com. For the Course Financial Accounting.
- c) There will be practical and practical examinations for the special Courses (Discipline Special Elective) of S.Y.B.Com. (Semester III and IV) and of T.Y.B.Com. (Semester V & VI)
- d) There will be Practical for the S.Y.B.Com level Compulsory Course Business Communication (Semester III and IV) & for T.Y.B.Com Auditing and Taxation (Semester V) & (Semester VI)
- e) A Student must offer the same Special Course at T.Y.B.Com. (Semester V & VI) which he / she has offered at S.Y.B.Com. (Semester III and IV)
- f) In an exceptional case, a student may change the Course chosen by him at third and fourth semester of second year during the first semester of the third year provided he keeps the additional terms of the Course at S.Y.B.Com.

Course having practical examination:-

Semester	Type of Course	Name of Practical Course	Course Code
I	Core Course	Financial Accounting – I	PR - 112
II	Core Course	Financial Accounting – II	PR – 122
III	Core Course	Business Communication – I	PR - 231
III	Discipline Specific Elective	Special Course Paper (I) a) Business Administration b) Banking and Finance c) Business Law and practices d) Cooperation and Rural Development e) Cost and Works Accounting f) Business Statistics g) Business Entrepreneurship h) Marketing Management i) Agricultural and Industrial Economics j) Defence Budgeting, Finance and Management k) Insurance, Transport and Tourism l) Computer Programming and Application	PR- 236
IV	Core Course	Business Communication – II	PR- 241
IV	Discipline Specific Elective	Special Course Paper (I) a) Business Administration b) Banking and Finance c) Business Law and practices d) Cooperation and Rural Development e) Cost and Works Accounting f) Business Statistics	PR- 246

		<ul style="list-style-type: none"> g) Business Entrepreneurship h) Marketing Management i) Agricultural and Industrial Economics j) Defence Budgeting, Finance and Management k) Insurance, Transport and Tourism l) Computer Programming and Application 	
V	Core Course	Auditing & Taxation – I	PR- 354
V	Discipline Specific Elective	<p style="text-align: center;">Special Course Paper (II)</p> <ul style="list-style-type: none"> a) Business Administration b) Banking and Finance c) Business Law and practices d) Cooperation and Rural Development e) Cost and Works Accounting f) Business Statistics g) Business Entrepreneurship h) Marketing Management i) Agricultural and Industrial Economics j) Defence Budgeting, Finance and Management k) Insurance, Transport and Tourism l) Computer Programming and Application 	PR- 355
V	Discipline Specific Elective	<p style="text-align: center;">Special Course Paper (III)</p> <ul style="list-style-type: none"> a) Business Administration b) Banking and Finance c) Business Law and practices d) Cooperation and Rural Development e) Cost and Works Accounting f) Business Statistics g) Business Entrepreneurship h) Marketing Management i) Agricultural and Industrial Economics j) Defence Budgeting, Finance and Management k) Insurance, Transport and Tourism l) Computer Programming and Application 	PR- 356
VI	Core Course	Auditing & Taxation – II	PR- 364
VI	Discipline Specific Elective	<p style="text-align: center;">Special Course Paper (II)</p> <ul style="list-style-type: none"> a) Business Administration b) Banking and Finance c) Business Law and practices d) Cooperation and Rural Development 	PR- 365

		<ul style="list-style-type: none"> e) Cost and Works Accounting f) Business Statistics g) Business Entrepreneurship h) Marketing Management i) Agricultural and Industrial Economics j) Defence Budgeting, Finance and Management k) Insurance, Transport and Tourism l) Computer Programming and Application 	
VI	Discipline Specific Elective	<p style="text-align: center;">Special Course Paper (III)</p> <ul style="list-style-type: none"> a) Business Administration b) Banking and Finance c) Business Law and practices d) Cooperation and Rural Development e) Cost and Works Accounting f) Business Statistics g) Business Entrepreneurship h) Marketing Management i) Agricultural and Industrial Economics j) Defence Budgeting, Finance and Management k) Insurance, Transport and Tourism l) Computer Programming and Application 	PR- 366



5. MEDIUM OF INSTRUCTION

The medium of instruction for B.Com. Degree course shall be either Marathi or English except languages. The Medium of instructions for Business Communication (S.Y.B.Com) shall be English only.

6. UNIVERSITY TERMS

The dates for the commencement and conclusion of the first and the second terms shall be as determined by the University Authorities. Only duly admitted students can keep the terms. The present relevant ordinances pertaining to grant of terms will be applicable.

7. VERIFICATION AND REVALUATION

The candidate may apply for verification and revaluation or result through Principal of the College which will be done by the University as per ordinance framed in that behalf.

8. RESTRUCTURING OF COURSES

This revised course structure shall be made applicable to the colleges implementing 'Restructured Programme at the undergraduate level from June, 2019. The Colleges under the Restructured Programme which has revised their structure in the light of the "2019 Pattern" shall be introduced with effect from academic year 2019-20.

9. STANDARD OF PASSING.

A candidate is required to obtain 40% marks in Internal Assessment, Practical Examination and Semester End University Examination.

It means that passing separately at internal assessment, practical examination and semester end university examination is compulsory.

10. METHODS OF EVALUATION, PASSING, AND EVALUATION CRITERIA:-

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

- a. Internal assessment
- b. Practical Examination (list of Courses having practical is given in note No. 4)
- c. University examination

For university examination, question papers will be set for seventy marks (three hours duration)

Evaluation will be done on a continuous basis, three times during each semester. Internal assessment will be of 30 marks. The colleges need to adopt any three out of the following methods for internal assessment:-

- a. Written examination
- b. Quiz
- c. Presentations
- d. Projects

- e. Assignments
- f. Tutorials
- g. Oral examination



11. STRUCTURE OF TRANSCRIPT:

Conversion of percentage 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 Honours courses in all disciplines, degree Program courses in Science subjects and degree Program courses in Humanities, Social Sciences and Commerce subjects:

1. Percentage to Grades and Grade Points

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

Let \bar{X} = mean of % age marks of all student appeared in the paper.

σ = Standard deviation

m = % of marks obtained

Letter grade	Numerical grade	Formula
O (outstanding)	10	$m \geq \bar{X} + 2.5\sigma$
A+ (Excellent)	9	$\bar{X} + 2.0\sigma \leq m < \bar{X} + 2.5\sigma$
A (Very Good)	8	$\bar{X} + 1.5\sigma \leq m < \bar{X} + 2.0\sigma$
B+ (Good)	7	$\bar{X} + 1.0\sigma \leq m < \bar{X} + 1.5\sigma$
B (Above average)	6	$\bar{X} \leq m < \bar{X} + \sigma$
C (Average)	5	$\bar{X} - 0.5\sigma \leq m < \bar{X}$
D (Pass)	4	$\bar{X} - \sigma \leq m < \bar{X} - 0.5\sigma$
F (Fail)	0	$m < \bar{X} - \sigma$
Ab (Absent)	0	

* Minor variations may be adjusted by the individual institution.

- 1 A student obtaining Grade F shall be considered failed and will be required to reappear in the examination.
- 2 For non credit courses 'Satisfactory' or 'Unsatisfactory' shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA.
- 3 The Universities can decide on the grade or percentage of marks required to pass in a course and also the CGPA required to qualify for a degree taking into consideration the recommendations of the statutory professional councils such as AICTE, MCI, BCI, NCTE etc.,
- 4 The statutory requirement for eligibility to enter as assistant professor in colleges and universities in the disciplines of arts, science, commerce etc., is a minimum average mark of 50% and 55% in relevant postgraduate degree respectively for reserved and general category. Hence, it is recommended that the cut-off marks for grade B shall not be less than 50% and

12. RESTRUCTURING OF COURSES – EQUIVALENCE AND TRANSITORY PROVISION:

The University will conduct examination of old course (2013 Pattern) for next three academic years from the date of implementation of course.

The candidate of old course will be given three chances to clear his/her Courses as per the old course (2013 Pattern) and thereafter he/she will have to appear for the Courses as per the equivalence given to old course (2013 Pattern).

13. SCHEMES OF CREDITS –

Total credits for three year integrated B.Com. Course is as follows:-

Sr. No.	Semester No	No. of courses	Lecture Hours	Credit per course	Credit for practical courses	Add on course credit (*)	Lectures + Practical + add on courses = Total Credits
1	I	7	48	3	1	1	21 + 2 = 23
2	II	7	48	3	1	1	21 + 2 = 23
3	III	6	48	3	2	0	18 + 2 = 20
4	IV	6	48	3	2	2	18 + 2 + 2 = 22
5	V	6	48	3	3	0	18 + 3 = 21
6	VI	6	48	3	3	2	18 + 3 + 2 = 23
Total No. of credits							132

Suggested Add On courses (*)

Sr. No.	Add on course	Class	Semester	Credit
1.	Value added course - I	F.Y.B.Com.	I	1
2.	Value added course – II	F.Y.B.Com.	II	1
3.	Environment Awareness	S.Y.B.Com.	IV	2
4.	Specific Add - on Course related to specialized Course/ Internship	T.Y.B.Com.	VI	2
Total				6

Revised structure of Choice Based Credit System Course

First Year B. Com. Semester – I w.e.f. 2019- 20

Course No.	Course / Title of Paper	Course	No. of lectures (Per Week)	No of Credits	Internal Assessment	University Assessment		Total Marks	Duration of Theory Examination
						Univ. Exam	Practical Exam		
111	Compulsory English- I	Ability Enhancement Compulsory Course	4	3	30	70	--	100	3 Hours
112	Financial Accounting - I	Core Course	4	4	30	50	20	100	3 Hours
113	Business Economics- I	Core Course	4	3	30	70	--	100	3 Hours
114 (A)	Business Mathematics and Statistics - I	Core Course	4	3	30	70	--	100	3 Hours
114 (B)	Computer Concepts and Application- I								
115	Optional Group. (A) (Any one of the Following) a) Organization Skill Development b) Banking and finance c) Commercial Geography d) Defence Organization and Management in India e) Cooperation f) Managerial Economics	Generic Elective Course	4	3	30	70	--	100	3 Hours

Course No.	Course / Title of Paper	Course	No. of lectures (Per Week)	No of Credits	Internal Assessment	University Assessment		Total Marks	Duration of Theory Examination
						Univ. Exam	Practical Exam		
116	Optional Group. (B) (Any one of the Following) a) Essentials of E-Commerce b) Insurance & Transport c) Marketing & Salesmanship d) Consumer Protection and Business Ethics e) Business Environment & Entrepreneurship f) Foundation Course in Commerce	Generic Elective Course	4	3 -	30	70	--	100	3 Hours
117	Any one of the following Language Additional English/ Marathi/ Hindi/ Gujarati/ Sindhi/ Persian/ Urdu/ French/ German / Sanskrit / Arabic	Ability Enhancement Course	4	3	30	70	--	100	3 Hours



First Year B. Com. Structure of the Syllabus w.e.f. 2019- 20

Semester – II

Course No.	Course / Title of Paper	Course	No. of lectures (Per Week)	No. of Credits	Internal Assessment	University Assessment		Total Marks	Duration of Theory Examination
						Univ. Exam	Practical Exam		
121	Compulsory English- II	Ability Enhancement Compulsory Course	4	3	30	70	--	100	3 Hours
122	Financial Accounting - II	Core Course	4	4	30	50	20	100	3 Hours
123	Business Economics- II	Core Course	4	3	30	70	--	100	3 Hours
124(A)	Business Mathematics and Statistics - II	Core Course	4	3	30	70	--	100	3 Hours
124(B)	OR Computer Concepts and Application- II								
125	Optional Group. – (A) (Any one of the Following) a) Organization Skill Development b) Banking and finance c) Commercial Geography d) Defence Organization and Management in India e) Cooperation f) Managerial Economics	Generic Elective Course	4	3	30	70	--	100	3 Hours

Course No.	Course / Title of Paper	Course	No. of lectures (Per Week)	No. of Credits	Internal Assessment	University Assessment		Total Marks	Duration of Theory Examination
						Univ. Exam.	Practical Exam.		
126	Optional Group. (B) (Any one of the Following) a) Essentials of E- Commerce b) Insurance & Transport c) Marketing & Salesmanship d) Consumer Protection and Business Ethics e) Business Environment & Entrepreneurship f) Foundation Course in Commerce	Generic Elective Course	4	3	30	70	--	100	3 Hours
127	Any one of the following Language- II Additional English/ Marathi/ Hindi/ Gujarati/ Sindhi/ Persian/ Urdu/ French/ German / Sanskrit / Arabic	Ability Enhancement Course	4	3	30	70	--	100	3 Hours



Second Year B. Com. w.e.f. 2020- 21.

Semester – III

Course No.	Course / Title of Paper	Course	No. of lectures (Per Week)	Total No. of Credits	Internal Assessment	University Assessment		Total Marks	Duration of Theory Examination
						Univ. Exam	Practical Exam		
231	Business Communication- I	Core Course	4	4	30	50	20	100	3 Hours
232	Corporate Accounting- I	Core Course	4	3	30	70	--	100	3 Hours
233	Business Economics - I (Macro)	Core Course	4	3	30	70	--	100	3 Hours
234	Business Management - I	Core Course	4	3	30	70	--	100	3 Hours
235	Elements of Company Law- I	Core Course	4	3	30	70	--	100	3 Hours
236	Special Course Paper- I (Any One) a) Business Administration b) Banking and Finance c) Business Law and practices d) Cooperation and Rural Development e) Cost and Works Accounting f) Business Statistics g) Business Entrepreneurship h) Marketing Management i) Agricultural and Industrial Economics j) Defence Budgeting, Finance and Management k) Insurance, Transport and Tourism l) Computer Programming and Application	Discipline Special Elective	4	4	30	50	20	100	3 Hours

Second Year B. Com. w.e.f. 2020- 21

Semester – IV

Course No.	Course / Title of Paper	Course	No. of lectures (Per Week)	Total No. of Credits	Internal Assessment	University Assessment		Total Marks	Duration of Theory Examination
						Univ. Exam	Practical Exam		
241	Business Communication- II	Core Course	4	4	30	50	20	100	3 Hours
242	Corporate Accounting- II	Core Course	4	3	30	70	--	100	3 Hours
243	Business Economics – II (Macro)	Core Course	4	3	30	70	--	100	3 Hours
244	Business Management - II	Core Course	4	3	30	70	--	100	3 Hours
245	Elements of Company Law- II	Core Course	4	3	30	70	--	100	3 Hours
246	Special Course Paper- I (Any One) a) Business Administration b) Banking and Finance c) Business Law and practices d) Cooperation and Rural Development e) Cost and Works Accounting f) Business Statistics g) Business Entrepreneurship h) Marketing Management i) Agricultural and Industrial Economics j) Defence Budgeting, Finance and Management k) Insurance, Transport and Tourism l) Computer Programming and Application	Discipline Special Elective	4	4	30	50	20	100	3 Hours

Third Year B. Com. w.e.f. 2021- 22

Semester – V

Course No.	Course / Title of Paper	Course	No. of lectures (Per Week)	No. of Credits	Internal Assessment	University Assessment			Total Marks	Duration of Theory Examination
						Univ. Exam	Pract. Exam	Inter-ship		
351	Business Regulatory Framework - I	Core Course	4	3	30	70	--	--	100	3 Hours
352	Advanced Accounting - I	Core Course	4	3	30	70	--	--	100	3 Hours
353	Indian and Global Economic Development - I Or International Economics - I	Core Course	4	3	30	70	--	--	100	3 Hours
354	Auditing & Taxation - I	Core Course	4	4	30	50	20	--	100	3 Hours
355	Special Course Paper – II (Same Special Course Offered at S.Y.B.Com) a) Business Administration b) Banking and Finance c) Business Law and practices d) Cooperation and Rural Development e) Cost and Works Accounting f) Business Statistics g) Business Entrepreneurship h) Marketing Management i) Agricultural and Industrial Economics j) Defence Budgeting, Finance and Management k) Insurance, Transport and Tourism l) Computer Programming and Application	Discipline Specific Elective	4	4	30	50	--	20	100	3 Hours

Course No.	Course / Title of Paper	Course	No. of lectures (Per Week)	No. of Credits	Internal Assessment	University Assessment			Total Marks	Duration of Theory Examination
						Univ. Exam	Pract. Exam	Internship		
356	Special Course Paper – III (Same Special Course Offered at S.Y.B.Com) a) Business Administration b) Banking and Finance c) Business Law and practices d) Cooperation and Rural Development e) Cost and Works Accounting f) Business Statistics g) Business Entrepreneurship h) Marketing Management i) Agricultural and Industrial Economics j) Defence Budgeting, Finance and Management k) Insurance, Transport and Tourism l) Computer Programming and Application	Discipline Specific Elective	4	4	30	50	--	20	100	3 Hours



Third Year B. Com. w.e.f. 2021- 22

Semester – VI

Course No.	Course / Title of Paper	Course	No. of lectures (Per Week)	No. of Credits	Internal Assessment	University Assessment			Total Marks	Duration of Theory Examination
						Univ. Exam	Practical Exam	Internship		
361	Business Regulatory Framework - II	Core Course	4	3	30	70	- -	- -	100	3 Hours
362	Advanced Accounting - II	Core Course	4	3	30	70	- -	- -	100	3 Hours
363	Indian and Global Economic Development - II Or International Economics - II	Core Course	4	3	30	70	- -	- -	100	3 Hours
364	Auditing & Taxation - II	Core Course	4	4	30	50	20	- -	100	3 Hours

365	Special Course Paper – II (Same Special Course Offered at S.Y.B.Com) a) Business Administration b) Banking and Finance c) Business Law and practices d) Cooperation and Rural Development e) Cost and Works Accounting f) Business Statistics g) Business Entrepreneurship h) Marketing Management i) Agricultural and Industrial Economics j) Defence Budgeting, Finance and Management k) Insurance, Transport and Tourism l) Computer Programming and Application	Discipline Specific Elective	4	4	30	50	--	20	100	3 Hours
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**Savitribai Phule
Pune University**

RULES AND REGULATIONS

for

**UG Choice Based Credit System for B.SC
(Regular)
Program under the Faculty of Science**

Effective from June 2019

1. Background/Preamble:

Education plays enormously significant role in building of a nation. There are quite a large number of educational institutions, engaged in imparting education in our country. Majority of them have entered recently into semester system to match with international educational pattern. However, our present education system is churning out youth who have to compete locally, regionally, nationally as well as globally. The present alarming situation necessitates transformation and/or redesigning of system, not only by introducing innovations but developing learner-centric approach.

Majority of Indian higher education institutions have been following the system which obstructs the flexibility for the students to study the subjects/courses of their choice and their mobility to different institutions. There is need to allow the flexibility in education system, so that students depending upon their interests can choose inter-disciplinary, intra-disciplinary and skill-based courses. This can only be possible when choice based credit system (CBCS), an internationally acknowledged system, is adopted. The choice based credit system not only offers opportunities and avenues to learn core subjects but also explore additional avenues of learning beyond the core subjects for holistic development of an individual. The CBCS will undoubtedly facilitate benchmarking of our courses with best international academic practices.

1.1 Preface

In a bid to fine tune our scientific education system to the global standards & practices, the Credit-Grade based performance and assessment system will be implemented with effect from June 2019 onwards for all the Under Graduate Programmes (UG) under the Faculty of Science, Savitribai Phule Pune University, Pune, starting with First Year.

With the advent of frontier science, technology and ever-changing expectations from the Industry and Society, it has become imperative to relook at the structure and subject contents of various UG courses to make it contemporary and relevant.

As per the decision by the authorities of Savitribai Phule Pune University, the faculty of Science has prepared the choice based credit system and its structure. The revised course is of 132 credits and 1 credit is equivalent to 15 hours. Assessments in credit system consist of A) In-semester continuous assessment and B) End-semester assessment for the Theory head and Term Work/ Practical / Oral / Presentation at the end of the semester for Practical, Oral, Seminar and Project Head.

The faculty of Science has shouldered the idea of incorporating latest advances in Science and technology and equip the subject/syllabus contents with latest and relevant topics and know-hows. Accordingly the new structure and syllabi are being introduced, to be implemented from the academic year 2019-20 from First Year and it will continue for subsequent years.

1. All UG programmes, under Faculty of Science shall be offered with credit system.
2. All the B.Sc. programmes running under the Faculty of Science will be of three years duration.
3. The total no. of credits required for the completion of the programme is 132 credits.
4. One credit is equivalent to 15 hours.
5. A student is required to earn 132 credits in a minimum period of six semesters.
6. There are eight mandatory credits to be earned by the students for the award of degree.
7. Final CGPA will be calculated on the basis of 132 credits.
8. There is 15 weeks of teacher-student interaction during the semester.
9. The 15 week is divided into 12 weeks teaching and 3 weeks for continuous assessment including preparation time to students during the semester.

10. The workload will be calculated on the basis of 12 weeks teaching only.



1.2 Advantages of the choice based credit system:

1. Shift in focus from the teacher-centric to student-centric education.
2. Student may undertake as many credits as they can cope with (without repeating all courses in a given semester if they fail in one/more courses).
3. CBCS allows students to choose inter-disciplinary, intra-disciplinary courses, skill oriented papers (even from other disciplines according to their learning needs, interests and aptitude) and more flexibility for students.
4. CBCS makes education broad-based and at par with global standards. One can take credits by combining unique combinations. For example, Physics with Economics, Microbiology with Chemistry or Environment Science etc.
5. CBCS offers flexibility for students to study at different times and at different institutions to complete one course (ease mobility of students). Credits earned at one institution can be transferred to another institution.

1.3 Implementation of UG course structure:

1. For First year: Student has to select 4 different subject among the subjects offered by the College /Institute.
2. For Second year: Student has to select 3 different subject among 4 subject chosen in first year
3. For Third year: Student has to select only 1 subject among the 3 subject opted in second year
4. CGPA will be calculated on the basis of core 132 credits only
5. Each theory credit is equivalent to 15 clock hours of teaching and each practical credit is equivalent to 30 clock hours of teaching in a semester.
6. There is 15 weeks of teacher-student interaction during the semester.
7. The 15 week is divided into 12 weeks teaching and 3 weeks for continuous assessment including preparation time to students during the semester.
8. The workload will be calculated on the basis of 12 weeks teaching only.
9. For the purpose of computation of work-load the following mechanism may be adopted as per UGC guidelines:
 - i) 1 Credit = 1 Theory period of one hour fifteen minute duration per week
 - ii) 1 Credit = 1 Tutorial period of one hour fifteen minute duration per week
 - iii) 1 Credit = 1 Practical period of two hour ten minute duration per week
10. Each theory Lecture time for FY,SY,TY is of 50 min. (3 Lectures per week for 2 credit course)
11. Each practical session time for FY is of 3 hour 15 minutes = 195 min
12. Each practical session time for SY & TY is of 4 hour 20 minutes = 260 min
13. Exam pattern: University assessment 70 % and continuous internal assessment 30 %.
14. For Internal examination minimum two tests per paper of which one has to be written test of 10 marks.
15. Methods of assessment for Internal exams: Seminars, Viva-voce, Projects, Surveys, Field visits, Tutorials, Assignment, Group Discussion.

2. UG Programme Structure:



2.1 Each B.Sc. programme is of 3 years duration. The minimum total of credits requirement for each programme is 132. In the structure, the credits are distributed over 6 semesters. The open elective included, gives the student a wide choice of subjects from other programmes. The Credit structure for B.Sc. programme is given below in Table 1.

Table 1

**Savitribai Phule Pune University
Faculty of Science and Technology**



Structure of Choice Based Credit System for Undergraduate Science Programme

Sem ester	Discipline Specific Core Courses (CC)		Ability Enhancement Compulsory Courses (AECC)		Discipline specific Elective Courses (DSEC)		Skill Enhancement Courses (SEC)		Total Credit
	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 (Environment)	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 - III (Environ ment)	2+0 = 2					
	CC - XIII	2+2 + 2 = 6	AECC - IV (Langua ge commun ication)	2+0 = 2	-	-	-	-	
	CC - XIV	2+2 + 2 = 6							22
V					DSEC - I	2+2 + 2 = 6	SEC - I	2+0 = 2	
	-	-	-	-	DSEC - II	2+2 + 2 = 6	SEC - II	2+0 = 2	
					DSEC - III	2+2 + 2 = 6	-	-	22
VI					DSEC - IV	2+2 + 2 = 6	SEC - III	2+0 = 2	
	-	-	-	-	DSEC - V	2+2 + 2 = 6	SEC - IV	2+0 = 2	
					DSEC - VI	2+2 + 2 = 6	-	-	22
Total Credit									132

2.2 Mandatory Credit courses for award of B.Sc. Degree:

In addition to the compulsory credits of 132, the student has to earn additional 8 credits from following groups by taking/participating/conducting respective activities.



Courses in Group I are compulsory.

The student can earn maximum 04 credits from an individual group from Group 2 to Group -9.

These extra credits will not be considered for GPA calculation, however these are mandatory for the completion and award of B. Sc. Degree.

- Group 1:** Physical Education (at F. Y. B. Sc. Sem. I) -01 credit
Physical Education (at F. Y. B. Sc. Sem. II) - 01 credit

(Note: Group I is compulsory for all the students as stated above.)

- Group 2:** Sport representation at College level - 01 credit
Sport representation at University/Statelevel - 02 credits

- Group 3:** National Social Service Scheme (participation in Camp): 01 credits
N.C.C.(with participation in annual camp) -01 credit
N. C. C. (with B certificate/C certificate award)- 02 credits
N.S.S./N.C.C. Republic day parade participation - 04 credits

- Group 4:** Avishkar participation; Extension activity participation, Cultural activity participation -01 credit
Avishkar selection at University level - 02 credits
Avishkar winner at state level - 04 credits

- Group 5:** Research paper presentation at State/National level - 01 credits
Research paper presentation at International level - 02 credits

- Group 6:** Participation in Summer school/programme; Short term course (not less than 1-week duration) - 03 credit.

- Group 7:** Scientific Survey, Societal survey, - 02 credits.

- Group 8:** Field Visits; Study Tours; Industrial Visits; Participation in curricular/ cocurricular competitions- 01 Credit.

- Group 9:** Online certificate Courses /MOOC Courses/ Career Advancement Course up to 04 credits (Minimum 10 Hrs. / credit)

2.3 Outlines of Choice Based Credit System [Detailed description of the courses]:

- a) **Core Course**(14 for honours courses; 4 discipline specific papers each for regular courses and 2 papers each for English and Hindi/MIL in B.A./B.Com): The papers under this category are going to be taught uniformly across all universities with 30% deviation proposed in the draft. The purpose of fixing core papers is to ensure that all the institutions follow a minimum common curriculum so that each institution/university adheres to common minimum standard. Also the course designed for papers under this category aim to cover the basics that a student is expected to imbibe in that particular discipline. A course, which should compulsorily be studied by a candidate as a core requirement is termed as a Core course.
- b) **Elective Course:** Generally a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline/subject of study or which provides an extended scope or which enables an exposure to some other discipline/subject/domain or nurtures the candidate's proficiency/skill is called an Elective Course.
 - i. **Discipline Specific Elective (DSE) Course**(4 for honours courses and 2 each for regular courses): Elective courses offered under the main discipline/subject of study is referred to as Discipline Specific Elective. The list provided under this category are suggestive in nature and each University has complete freedom to suggest their own papers under this category based on their expertise, specialization, requirements, scope and need. The University/Institute may also offer discipline related Elective courses of interdisciplinary nature (to be offered by main discipline/subject of study).
 - ii. **Dissertation/Project*:** An elective course designed to acquire special/advanced knowledge, such as supplement study/support study to a project work, and a candidate studies such a course on his own with an advisory support by a teacher/faculty member is called dissertation/project.
 - iii. **Generic Elective (GE) Course**(4 for honours courses and 2 each for B.A./B.Com. regular courses): An elective course chosen from an unrelated discipline/subject, with an intention to seek exposure beyond discipline/s of choice is called a Generic Elective. The purpose of this category of papers is to offer the students the option to explore disciplines of interest beyond the choices they make in Core and Discipline Specific Elective papers. The list provided under this category are suggestive in nature and each University has complete freedom to suggest their own papers under this category based on their expertise, specialization, requirements, scope and need.

P.S.: A core course offered in a discipline/subject may be treated as an elective by other discipline/subject and vice versa and such electives may also be referred to as Generic Elective.
- c) **Ability Enhancement Courses (AEC):** The Ability Enhancement (AE) Courses may be of two kinds: Ability Enhancement Compulsory Courses (AECC) and Skill Enhancement Courses (SEC). "AECC" courses are the courses based upon the content that leads to Knowledge enhancement; i. Environmental Science and ii. English/MIL(Marathi/Hindi) Communication. These are mandatory for all disciplines. SEC courses are value-based and/or skill-based and are aimed at providing hands-on-training, competencies, skills, etc.

i. **Ability Enhancement Compulsory Courses (AECC):** Environmental Science, English Communication/Hindi Communication/MIL Communication.

ii. **Skill Enhancement Courses (SEC)**(minimum 2 for honours courses and 4 for regular courses): These courses may be chosen from a pool of courses designed to provide value-based and/or skill-based knowledge and should contain both theory and lab/hands-on/training/field work. The main purpose of these courses is to provide students life-skills in hands-on mode so as to increase their employability. The list provided under this category are suggestive in nature and each University has complete freedom to suggest their own papers under this category based on their expertise, specialization, requirements, scope and need.

d) **Practical/tutorials** (One each with every core and discipline/generic specific elective paper): The list of practical provided is suggestive in nature and each university has the freedom to add/subtract/edit practical from the list depending on their faculty and infrastructure available. Addition will however be of similar nature.

e) **Introducing Research Component in Under-Graduate Courses**

Project work/Dissertation is considered as a special course involving application of knowledge in solving / analyzing /exploring a real life situation / difficult problem. A Project/Dissertation work would be of 6 credits. A Project/Dissertation work may be given in lieu of a discipline specific elective paper.

3. Eligibility for Admission:

3.1 First Year B.Sc.:

A. Higher Secondary School Certificate (10+2) or its equivalent Examination with English and three science subjects such as Physics, Chemistry, Mathematics, Biology, Geography, Geology, etc. OR

B. Three Years Diploma in Pharmacy Course of Board of Technical Education conducted by Government of Maharashtra or its equivalent. OR

C. Higher Secondary School Certificate (10+2) Examination with English and vocational subject of + 2 level (MCVC) - Medical Lab. Technician (Subject Code = P1/P2/P3)

Admissions will be given as per the selection procedure / policies adopted by the respective college keeping in accordance with conditions laid down by the University of Pune.

Reservation and relaxation will be as per the Government rules.

3.2 Medium of Instruction: English

3.3 Award of Credits:

- Each course having 4 credits shall be evaluated out of 100 marks and student should secure at least 40 marks (40%) in continuous assessment as well as term end exam to earn full credits of that course.
- Each course having 3 credits shall be evaluated out of 75 marks as students should secure at least 30 marks (40%) in continuous assessment as well as term end exam to earn full credits of that course.

- Each course having 2 or 1.5 credits shall be evaluated out of 50 marks and student should secure at least 20 marks (40%) in continuous assessment as well as term end exam to earn full credits of that course.
- Each course having 1 credits shall be evaluated out of 25 marks as student shall secure 10 marks (40%) in continuous assessment as well as term end exam to earn full credits of that course.
- GPA shall be calculated based on the marks obtained in the respective subject provided that student should have obtained credits for that course. Structure of marks scheme for choice based credit system program is given in Table 2.



Table 2
Structure of Examination Mark Scheme of Choice Based Credit System for Undergraduate Science Programme



Sem	Course opted	Course Name	Credit	Internal Max Marks	External Max Marks	Total Max Marks
I	CC-1	Paper 1:	2	15	35	50
		Paper 2:	2	15	35	50
	CC-1 Practical	Practical	1.5	15	35	50
	CC-2	Paper 1:	2	15	35	50
		Paper 2:	2	15	35	50
		CC-2 Practical	Practical	1.5	15	35
	CC-3	Paper 1:	2	15	35	50
		Paper 2:	2	15	35	50
		CC-3 Practical	Practical	1.5	15	35
	CC-4	Paper 1:	2	15	35	50
		Paper 2:	2	15	35	50
		CC-4 Practical	Practical	1.5	15	35
			22	180	420	600
II	CC-5	Paper 1:	2	15	35	50
		Paper 2:	2	15	35	50
	CC-5 Practical	Practical	1.5	15	35	50
	CC-6	Paper 1:	2	15	35	50
		Paper 2:	2	15	35	50
	CC-6 Practical	Practical	1.5	15	35	50
	CC-7	Paper 1:	2	15	35	50
		Paper 2:	2	15	35	50
	CC-7 Practical	Practical	1.5	15	35	50
	CC-8	Paper 1:	2	15	35	50
		Paper 2:	2	15	35	50
	CC-8 Practical	Practical	1.5	15	35	50
			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
	CC-9 Practical	Practical	2	15	35	50
	CC-10	Paper 1:	2	15	35	50
		Paper 2:	2	15	35	50
	CC-10 Practical	Practical	2	15	35	50
	CC-11	Paper 1:	2	15	35	50
		Paper 2:	2	15	35	50
	CC-11 Practical	Practical	2	15	35	50
	AECC -1A	Environmental Science -1	2	15	35	50
AECC -2A	English MIL(Marathi/Hindi) Communication -1	2	15	35	50	
			22	165	385	550
IV	CC-12	Paper 1:	2	15	35	50
		Paper 2:	2	15	35	50
	CC-12 Practical	Practical	2	15	35	50
	CC-13	Paper 1:	2	15	35	50
		Paper 2:	2	15	35	50
	CC-13 Practical	Practical	2	15	35	50
	CC-14	Paper 1:	2	15	35	50
		Paper 2:	2	15	35	50
	CC-14 Practical	Practical	2	15	35	50
	AECC -1B	Environmental Science -2	2	15	35	50
AECC -2B	English MIL(Marathi/Hindi) Communication -2	2	15	35	50	
			22	165	385	550
Second Year Total			44	330	770	1100

V	DSE - 1A	Paper 1:	2	15	35	50	
	DSE - 1B	Paper 2:	2	15	35	50	
	DSE - 2A	Paper 3:	2	15	35	50	
	DSE - 2B	Paper 4:	2	15	35	50	
	DSE - 3A	Paper 5:	2	15	35	50	
	DSE - 3B	Paper 6:	2	15	35	50	
	DSE-1	Practical Lab 1	2	15	35	50	
	DSE-2	Practical Lab 2	2	15	35	50	
	DSE-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	
				22	165	385	550



VI	DSE - 4A	Paper 1:	2	15	35	50
	DSE - 4B	Paper 2:	2	15	35	50
	DSE - 5A	Paper 3:	2	15	35	50
	DSE - 5B	Paper 4:	2	15	35	50
	DSE - 6A	Paper 5:	2	15	35	50
	DSE - 6B	Paper 6:	2	15	35	50
	DSE-4	Practical Lab 1	2	15	35	50
	DSE-5	Practical Lab 2	2	15	35	50
	DSE-6	Project	2	15	35	50
	SEC-2	Skill Based Course 2	2	15	35	50
SEC-2	Skill Based Course 2	2	15	35	50	
			22	165	385	550
Third Year Total			44	330	770	1100
Total			132			3400



4. Evaluation Pattern:

- 4.1 The course carrying 100 marks shall be evaluated with Continuous Assessment (CA) and University Evaluation (UE) mechanism.
- 4.2 Continuous assessment shall be of 30 marks while University Evaluation shall be of 70 marks. To pass in a course of 4 credit, a student has to secure minimum 40 marks provided that he should secure minimum 28 marks in University Evaluation (UE) and 12 marks (40%) in continuous assessment.
- 4.3 The course carrying 50 marks shall be evaluated with Continuous Assessment (CA) and University Evaluation (UE) mechanism. Continuous assessment shall be of 15 marks while University Evaluation shall be of 35 marks.
- 4.4 To pass in a course of 2 or 1.5 credit, a student has to secure minimum 20 marks provided that he/she should secure minimum 14 marks in University Evaluation (UE) and 6 marks (40%) in continuous assessment.
- 4.5 For Internal examination minimum two tests per paper of which one has to be a written test 10 Marks
- 4.6 Methods of assessment for Internal exams: Seminars, Viva-voce, Projects, Surveys, Field visits, Tutorials, Assignment, Group Discussion, etc (on approval of the head of the centre)
- 4.7 There shall be reevaluation of the answer scripts of semester-end examination of theory papers only but not of internal assessment papers as per Ordinance no 134 A and B.

5. ATKT Rules:

- 5.1 Minimum number of credits required to take admission to Second Year of B. Sc.: 31 [70%]
- 5.2 Minimum number of credits required to take admission to Third Year of B.Sc.: 44 credits [100%] to be completed from F.Y. B.Sc. and at least 22 credits from S.Y. B.Sc.

6. Completion of Degree Course:

- 6.1 A student who earns 140 credits, shall be considered to have completed the requirements of the B. Sc. degree program and CGPA will be calculated for such student. On the basis of only 132 credits. The following percentage to grade and grade point is given in Table-3 and respective example of CGPA calculation is given in Table-4.

Table 3
Percentage to Grades and Grade Points

Sr. No.	Grade Letter	Grade Point	Marks
1	O (Outstanding)	10	90 ≤ Marks ≤ 100
2	A+ (Excellent)	9	80 ≤ Marks ≤ 89
3	A (Very Good)	8	70 ≤ Marks ≤ 79
4	B+ (Good)	7	55 ≤ Marks ≤ 69
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
9	Ab (Absent)	0	



Table 4
Structure of CGPA and Mark Scheme of Choice Based Credit
System for Undergraduate Science Programme to be
implemented from Academic year 2019-20

Se m	Course opted	Course Name	Cre dit	Interna l Max Marks	Extern al Max Marks	Total Max Marks	Grade Letter (F-O)	Grade point (0 - 10)	Credit Point = (Credit x Grade point)
I	CC-1	Paper 1:	2	15	35	50	O	10	20.00
		Paper 2:	2	15	35	50	A+	9	18.00
	CC-1 Practical	Practical	1.5	15	35	50	A	8	12.00
	CC-2	Paper 1:	2	15	35	50	B+	7	14.00
		Paper 2:	2	15	35	50	B	6	12.00
	CC-2 Practical	Practical	1.5	15	35	50	C	5	7.50
	CC-3	Paper 1:	2	15	35	50	D	4	8.00
		Paper 2:	2	15	35	50	A	8	16.00
	CC-3 Practical	Practical	1.5	15	35	50	D	4	6.00
	CC-4	Paper 1:	2	15	35	50	O	10	20.00
		Paper 2:	2	15	35	50	A+	9	18.00
	CC-4 Practical	Practical	1.5	15	35	50	A	8	12.00
			22	180	420	600			163.50
SGPA						Total Credit point / Total credit for the semester			7.43
II	CC-5	Paper 1:	2	15	35	50	O	10	20.00
		Paper 2:	2	15	35	50	A+	9	18.00
	CC-5 Practical	Practical	1.5	15	35	50	A	8	12.00
	CC-6	Paper 1:	2	15	35	50	B+	7	14.00
		Paper 2:	2	15	35	50	B	6	12.00
	CC-6 Practical	Practical	1.5	15	35	50	C	5	7.50
	CC-7	Paper 1:	2	15	35	50	D	4	8.00
		Paper 2:	2	15	35	50	C	5	10.00
	CC-7 Practical	Practical	1.5	15	35	50	B	6	9.00
	CC-8	Paper 1:	2	15	35	50	O	10	20.00
		Paper 2:	2	15	35	50	A+	9	18.00
	CC-8 Practical	Practical	1.5	15	35	50	A	8	12.00
			22	180	420	600	0		160.50
SGPA						Total Credit point / Total credit for the semester			7.30
First Year Total			44	360	840	1200			323.50
SGPA						Total Credit point / Total credit for the year			7.35



III	CC-9	Paper 1:	2	15	35	50	O		10.00
		Paper 2:	2	15	35	50	A+	9	18.00
	CC-9 Practical	Practical	2	15	35	50	A	8	16.00
	CC-10	Paper 1:	2	15	35	50	B+	7	14.00
		Paper 2:	2	15	35	50	B	6	12.00
	CC-10 Practical	Practical	2	15	35	50	C	5	10.00
	CC-11	Paper 1:	2	15	35	50	B+	7	14.00
		Paper 2:	2	15	35	50	B	6	12.00
	CC-11 Practical	Practical	2	15	35	50	C	5	10.00
	AECC -1A	Environmental Science - 1		2	15	35	50	B	6
AECC -2A	English ML(Mara thi/Hindi) Commun ication -1		2	15	35	50	A	8	16.00
			22	165	385	550			154.00
SGPA						Total Credit point / Total credit for the semester			7.00

IV	CC-12	Paper 1:	2	15	35	50	O	10	20.00
		Paper 2:	2	15	35	50	A+	9	18.00
	CC-12 Practical	Practical	2	15	35	50	A	8	16.00
	CC-13	Paper 1:	2	15	35	50	B+	7	14.00
		Paper 2:	2	15	35	50	B	6	12.00
	CC-13 Practical	Practical	2	15	35	50	C	5	10.00
	CC-14	Paper 1:	2	15	35	50	B+	7	14.00
		Paper 2:	2	15	35	50	B	6	12.00
	CC-14 Practical	Practical	2	15	35	50	C	5	10.00
	AECC -1B	Environm ental Science - 2		2	15	35	50	D	4
AECC -2B	English/ ML(Mara thi/Hindi) Commun ication -2		2	15	35	50	C	5	10.00
			22	165	385	550			144.00
SGPA						Total Credit point / Total credit for the semester			6.55
Second Year Total			44	330	770	1100			298.00



		SGPA			Total Credit point / Total credit for the year			5.77	
V	DSE - 1A	Paper 1:	2	15	35	50	D	4	8.00
	DSE - 1B	Paper 2:	2	15	35	50	C	5	10.00
	DSE - 2A	Paper 3:	2	15	35	50	D	4	8.00
	DSE - 2B	Paper 4:	2	15	35	50	C	5	10.00
	DSE - 3A	Paper 5:	2	15	35	50	D	4	8.00
	DSE - 3B	Paper 6:	2	15	35	50	C	5	10.00
	DSE-1	Practical Lab 1	2	15	35	50	O	10	20.00
	DSE-2	Practical Lab 2	2	15	35	50	A+	9	18.00
	DSE-3	Practical Lab 3	2	15	35	50	A	8	16.00
	SEC-1	Skill Based Course 1:	2	15	35	50	D	4	8.00
	SEC-2	Skill Based Course 2:	2	15	35	50	C	5	10.00
			22	165	385	550			126.00
		SGPA			Total Credit point / Total credit for the semester			5.73	
VI	DSE - 4A	Paper 1:	2	15	35	50	D	4	8.00
	DSE - 4B	Paper 2:	2	15	35	50	C	5	10.00
	DSE - 5A	Paper 3:	2	15	35	50	D	4	8.00
	DSE - 5B	Paper 4:	2	15	35	50	C	5	10.00
	DSE - 6A	Paper 5:	2	15	35	50	D	4	8.00
	DSE - 6B	Paper 6:	2	15	35	50	C	5	10.00
	DSE-4	Practical Lab 1	2	15	35	50	O	10	20.00
	DSE-5	Practical Lab 2	2	15	35	50	A+	9	18.00
	DSE-6	Project	2	15	35	50	A	8	16.00
	SEC-2	Skill Based Course 2	2	15	35	50	D	4	8.00
	SEC-2	Skill Based Course 2	2	15	35	50	C	5	10.00
			22	165	385	550			126.00
		SGPA			Total Credit point / Total credit for the semester			5.73	
Third Year Total			44	330	770	1100			252.00
		SGPA			Total Credit point / Total credit for the year			5.73	
Total			132			3400			873.50
		CGPA			Total Credit point / Total credit for the course			6.62	

7. PERFORMANCE INDICES:

The semester end grade sheet will contain grades for the courses along with title and SGPA. Final grade sheet and transcript shall contain CGPA.



7.1 Semester Grade Point Average (SGPA) -The performance of a student in a semester is indicated by a number called the Semester Grade Point Average (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses, seminars and projects registered by the student during the semester.

$$SGPA = \frac{\sum_{i=1}^p C_i G_i}{\sum_{i=1}^p C_i}$$

$$SGPA = \frac{\sum \text{Grade Points Earned} \times \text{Credits for each course}}{\text{Total Credits}}$$

For Example: suppose in a given semester a student has registered for five courses having credits C1, C2, C3, C4, C5 and his / her grade points in those courses are G1, G2, G3, G4, G5 respectively.

Then students

$$SGPA = \frac{C_1 G_1 + C_2 G_2 + C_3 G_3 + C_4 G_4 + C_5 G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

SGPA is calculated up to two decimal places by rounding off.

7.2 Course Grade Point Average (CGPA)- The CGPA is the weighted average of the grade points obtained in all the courses (Theory/term work/practical/oral/presentation) of first semester to sixth semester for the students admitted in the First year and third to sixth semester for the students directly admitted at Second year. It is calculated in the same manner as the SGPA.

In case of a student passing a failed course or in case of improvement, the earlier grade would be replaced by the new grade in calculation of the SGPA and CGPA.

8. RESULT:

Based on the performance of the student in the semester examinations, the Savitribai Phule Pune University will declare the results and issue the Semester Grade sheets.

The class shall be awarded to a student on the CGPA calculated as mentioned in Rule no. 6.1. The award of the class shall be as per Table 5, and corresponding percentage calculation for the CGPA is given in Table 6, along with all details and examples.

For grade improvement a student will have to take minimum 30% of the requisite number of credits for the concerned degree. These courses will be theory courses from the parent department. Grade improvement programme will be implemented at the end of the academic year. A student can opt for the grade improvement programme only after the declaration of the result for his/her final semester exam, i.e., at the end of the next academic year after passing the final examination and within two years of completion of the degree and only once.



(Handwritten Signature)
Principal

Maratha Vidya Prerak Samaj's
Arts, Commerce & Science College
Taharabad Tal. Baglan Dist. Nashik

Sl. No.	Name of the Candidate	Roll No.	Grade
1
2
3
4
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