



SHIVAJI UNIVERSITY, KOLHAPUR-416 004. MAHARASHTRA
 PHONE : EPABX-2609000 website- 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/Arts/6385

Date:- 25/06/2018

The Principal
 All Affiliated Arts (B.A.) Colleges,
 Shivaji University,
 Kolhapur.

Subject: Regarding syllabi and equivalence of B.A. Part-I (Sem. I & II)
 Choice Based Credit System (CBCS) degree programme under
 the Faculty of Humanities.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the syllabi and equivalence of B.A. Part-I (Sem. I & II) Choice Based Credit System (CBCS) under the Faculty of Humanities.

This syllabi and equivalence shall be implemented from the academic year 2018-2019 (i.e. from June 2018) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in. (Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2018 & March/April 2019. These chances are available for repeater students, if any.

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 Humanities | } for information |
| 2 Chairman, BOS under Faculty of Humanities | |

- | | |
|----------------------------------|---|
| 3 Appointment Section | } for information and necessary action. |
| 4 P.G. Admission Section | |
| 5 B.A. Section | |
| 6 Affiliation Section (U.G./P.G) | |
| 7 Computer Centre | |
| 8 Eligibility Section | |
| 9 Distan Education | |
| 10 P.G.Seminar Section | |



Principal
 Gopal Krishna Gokhale College,
 Kolhapur.



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 दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग- २६०९०९४)
 फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

Ref./SU/BOS/Comm/4751

Date:01/06/2018

The Principal
 All Affiliated Commerce (B.Com.) Colleges,
 Shivaji University,
 Kolhapur.

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

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.Com. Part- I ,II,III (Sem. I & VI) Choice Based Credit System (CBCS) under the Faculty of Commerce & Management.

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



Patiph
 Principal
 Gopal Krishna Gokhale College,
 Kolhapur.



Estd. 1962
NAAC 'A' Grade

SHIVAJI UNIVERSITY, KOLHAPUR-416 004. MAHARASHTRA

PHONE : EPABX-2609000 website- www.unishivaji.ac.in

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शिवाजी विद्यापीठ, कोल्हापूर - 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९०००० (अभ्यास मंडळे विभाग- २६०९०९४)

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in

SU/BOS/Science/6254

Date: 21-06-2018

To,

The Principal,
All Affiliated (Science) Colleges/Institutions,
Shivaji University, Kolhapur.

Subject: Regarding syllabi of B. Sc. Part-I (CBCS) degree programme under the Faculty of Science and Technology

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, Nature of question paper and equivalence of B. Sc. Part-I (Sem. I & II) Choice Based Credit System (CBCS) under the Faculty of Science and Technology.

B.Sc.-I (Sem. I & II) (CBCS)			
1)	English (Com.)	2)	Chemistry
3)	Physics	4)	Zoology
5)	Botany	6)	Statistics
7)	Mathematics	8)	Microbiology
9)	Geography	10)	Geology
11)	Electronics	12)	Biotechnology (Optional/Vocational)
13)	Computer Science	14)	Biochemistry
15)	Food Science & Quality Control	16)	Astro Physics & Space Science
17)	Nanotechnology	18)	Industrial Microbiology

This syllabi and equivalence shall be implemented from the academic year 2018-2019 (i.e. from June 2018) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in (Online Syllabus)

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2018 & March/April 2019. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

1	The Dean, Faculty of Arts & Fine Arts	7	Appointment Section
2	Director, Board of Examinations and Evaluation	8	P.G.Seminar Section
3	The Chairman, Respective Board of Studies	9	Computer Centre
4	B.Sc. Exam	10	Affiliation Section (U.G.)
5	Eligibility Section	11	Affiliation Section (P.G.)
6	O.E. I Section	12	P.G.Admission Section

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Principal
Gopal Krishna Gokhale College,
Kolhapur.

Draft: CBCS STRUCTURE OF B.Sc. I

SHIVAJI UNIVERSITY, KOLHAPUR													
TEACHING AND EXAMINATION SCHEME UNDER CHOICE BASED CREDIT SYSTEM (CBCS)													
FACULTY: SCIENCE						COURSE: BACHELOR OF SCIENCE (B.Sc.)							
PATTERN: FULL TIME SEMESTER													
DURATION OF COURSE: SIX SEMESTERS													
B.Sc. - I SEMESTER - I - DURATION: 06 MONTHS (24 WEEKS)													
Sr. No.	SUBJECT TITLE	TEACHING SCHEME						EXAMINATION SCHEME					
		THEORY (TH)			PRACTICAL (PR)			THEORY			PRACTICAL		
		No. of lectures	Hours	Credits	No. of lectures	Hours	Credits	PAPER HOURS	MAX MARKS	MIN MARKS	PRACT. HOURS	MAX MARKS	MIN MARKS
1	DSC-1A	5	4	4	4	3.2	2	3	100	35	PRACTICAL EXAMINATION IS ANNUAL.		
2	DSC-2A	5	4	4	4	3.2	2	3	100	35			
3	DSC-3A	5	4	4	4	3.2	2	3	100	35			
4	DSC-4A	5	4	4	4	3.2	2	3	100	35			
5	AECC-1A	4	3.2	2	-----	-----	-----	2	50	18			
	TOTAL OF SEM -I	24	19.2	18	16	12.8	8	TOTAL MARKS	450	-----			
B.Sc. - I SEMESTER - II - DURATION: 06 MONTHS (24 WEEKS)													
Sr. No.	SUBJECT TITLE	TEACHING SCHEME						EXAMINATION SCHEME					
		THEORY (TH)			PRACTICAL (PR)			THEORY			PRACTICAL		
		No. of lectures	Hours	Credits	No. of lectures	Hours	Credits	PAPER HOURS	MAX MARKS	MIN MARKS	PRACT. HOURS	MAX MARKS	MIN MARKS
1	DSC-1B	5	4	4	4	3.2	2	3	100	35	As per subject BOS guidelines	50	18
2	DSC-2B	5	4	4	4	3.2	2	3	100	35		50	18
3	DSC-3B	5	4	4	4	3.2	2	3	100	35		50	18
4	DSC-4B	5	4	4	4	3.2	2	3	100	35		50	18
5	AECC-1B	4	3.2	2	-----	-----	-----	2	50	18	---	---	---
	TOTAL OF SEM -II	24	19.2	18	16	12.8	8	TOTAL MARKS	450	-----		200	
	TOTAL OF SEM- I & II	48	38.4	36	32	25.6	16	TOTAL MARKS	900	--	---	200	
STUDENT CONTACT HOURS PER WEEK: 32 HOURS (MINIMUM)						TOTAL MARKS FOR B.Sc.-I (INCLUDING ENGLISH): 1100							
THEORY AND PRACTICAL LECTURES OF 48 MINUTES EACH						TOTAL CREDITS FOR B.Sc.-I (SEMESTER I AND II): 52							
DSC- DISCIPLINE SPECIFIC CORE COURSE ANY FOUR SUBJECTS FROM B.Sc.-I CBCS CURRICULUM (Physics, Chemistry, Mathematics, Statistics, Electronics, Computer Science (opt), Botany, Zoology, Biotechnology (opt/voc.), Geography, Geology, Seed Technology, Microbiology, Industrial Microbiology, Biochemistry (opt), Psychology, Food Science and Quality Control)													
AECC- ABILITY ENHANCEMENT COMPULSORY COURSE (1A AND 1B)- ENGLISH													
THE AFFILIATED COLLEGE SHOULD DECLARE THE SUBJECT COMBINATIONS AVAILABLE AT THE COLLEGE AS PER THE TEACHING PROVISIONS AND WORKLOAD.													




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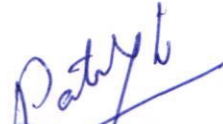
CBCS STRUCTURE OF B.Sc. - II

SHIVAJI UNIVERSITY, KOLHAPUR

TEACHING AND EXAMINATION SCHEME UNDER CHOICE BASED CREDIT SYSTEM (CBCS)

FACULTY: SCIENCE							COURSE: BACHELOR OF SCIENCE (B.Sc.)						
PATTERN: FULL TIME SEMESTER													
DURATION OF COURSE: SIX SEMESTERS													
B.Sc. - II SEMESTER- III-DURATION: 06 MONTHS (24 WEEKS)													
Sr. No.	SUBJECT TITLE	TEACHING SCHEME						EXAMINATION SCHEME					
		THEORY (TH)			PRACTICAL (PR)			THEORY			PRACTICAL		
		No. of lectures	Hours	Credits	No. of lectures	Hours	Credits	PAPER HOURS	MAX MARKS	MIN MARKS	PRACT. HOURS	MAX MARKS	MIN MARKS
1	DSC-1C	6	4.8	4	8	6.4	3	3	100	35	PRACTICAL EXAMINATION IS ANNUAL		
2	DSC-2C	6	4.8	4	8	6.4	3	3	100	35			
3	DSC-3C	6	4.8	4	8	6.4	3	3	100	35			
4	AECC-1C	4	3.2	2	-----	-----	-----	3	*				
	TOTAL OF SEM-III	22	17.6	14	24	19.2	9	TOTAL MARKS	300	-----			
B.Sc. - II SEMESTER- IV-DURATION: 06 MONTHS (24 WEEKS)													
Sr. No.	SUBJECT TITLE	TEACHING SCHEME						EXAMINATION SCHEME					
		THEORY (TH)			PRACTICAL (PR)			THEORY			PRACTICAL		
		No. of lectures	Hours	Credits	No. of lectures	Hours	Credits	PAPER HOURS	MAX MARKS	MIN MARKS	PRACT. HOURS	MAX MARKS	MIN MARKS
1	DSC-1D	6	4.8	4	8	6.4	3	3	100	35	As per subject BOS guidelines	100	35
2	DSC-2D	6	4.8	4	8	6.4	3	3	100	35		100	35
3	DSC-3D	6	4.8	4	8	6.4	3	3	100	35		100	35
	TOTAL OF SEM-IV	18	14.4	12	24	19.2	9	TOTAL MARKS	300	-----		300	
	TOTAL OF SEM-III & IV	40	32	26	48	38.4	18	TOTAL MARKS	600	--	---	300	
STUDENT CONTACT HOURS PER WEEK: 36.8 HOURS (SEM-III) & 33.6 HOURS (SEM-IV) MINIMUM							TOTAL MARKS FOR B.Sc.-II (Excluding Environmental Science): 900						
THEORY AND PRACTICAL LECTURES OF 48 MINUTES EACH							TOTAL CREDITS FOR B.Sc.-II (SEMESTER I AND II): 44						
<p>DSC- DISCIPLINE SPECIFIC CORE COURSE :A CANDIDATE SHALL SELECT 3 SUBSIDIARY SUBJECTS FROM THE 4 SUBJECTS OFFERED AT B.Sc. -I (Physics, Chemistry, Mathematics, Statistics, Electronics, Computer Science (opt), Botany, Zoology, Biotechnology (opt./voc.), Geography, Geology, Seed Technology, Microbiology, Industrial Microbiology, Biochemistry (opt), Psychology, Food Science and Quality Control) or 2 subsidiary subjects from the 4 subjects offered at B.Sc.-I and any one interdisciplinary subject as the 3rd subsidiary subject. <u>Interdisciplinary subjects</u> :For <u>Astrophysics</u>:Physics is compulsory and Mathematics is optional, For <u>Geochemistry</u>:Geology is compulsory and Chemistry is optional, For <u>Biochemistry</u>: Chemistry or Any subject in Lie Sciences is optional, For <u>Plant protection</u>: Botany is compulsory and Zoology/Chemistry is optional ,For <u>pollution</u>: Chemistry is compulsory and Botany/ Zoology/Physics is optional. For Fisheries: Zoology is compulsory and Chemistry is optional.</p> <p>AECC- ABILITY ENHANCEMENT COMPULSORY COURSE (1C)-ENVIRONMENTAL SCIENCE (FOR SEM III ONLY).</p> <p>* EXAMINATION IS ANNUAL (70+30 MARKS CONVERTED INTO GRADE)</p>													
THE AFFILIATED COLLEGE SHOULD DECLARE THE SUBJECTS AVAILABLE AT THE COLLEGE AS PER THE TEACHING PROVISIONS AND WORKLOAD.													




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 Kolhapur.

CBCS STRUCTURE OF B.Sc. III

SHIVAJI UNIVERSITY, KOLHAPUR

TEACHING AND EXAMINATION SCHEME UNDER CHOICE BASED CREDIT SYSTEM (CBCS)

FACULTY: SCIENCE

COURSE: BACHELOR OF SCIENCE (B.Sc.)

PATTERN: FULL TIME SEMESTER

DURATION OF COURSE: SIX SEMESTERS

B.Sc. – III SEMESTER- V-DURATION: 06 MONTHS (24 WEEKS)

Sr. No.	SUBJECT TITLE	TEACHING SCHEME						EXAMINATION SCHEME					
		THEORY (TH)			PRACTICAL (PR)			THEORY			PRACTICAL		
		No. of lectures	Hours	Credits	No. of lectures	Hours	Credits	PAPER HOURS	MAX MARKS	MIN MARKS	PRACT. HOURS	MAX MARKS	MIN MARKS
1	DSE-1A	6	4.8	4	10	8	4	3	100	35	PRACTICAL EXAMINATION IS ANNUAL		
2	DSE-2A	6	4.8	4	10	8	4	3	100	35			
4	AECC-1D	4	3.2	2	----	----	----	2	50	18			
	TOTAL OF SEM V	16	12.8	10	20	16	8	TOTAL MARKS	250	----			

B.Sc. – III SEMESTER- VI-DURATION: 06 MONTHS (24 WEEKS)

Sr. No.	SUBJECT TITLE	TEACHING SCHEME						EXAMINATION SCHEME					
		THEORY (TH)			PRACTICAL (PR)			THEORY			PRACTICAL		
		No. of lectures	Hours	Credits	No. of lectures	Hours	Credits	PAPER HOURS	MAX MARKS	MIN MARKS	PRACT. HOURS	MAX MARKS	MIN MARKS
1	DSE-1B	6	4.8	4	10	8	4	3	100	35	As per subject BOS guidelines	200	70
2	DSE-2B	6	4.8	4	10	8	4	3	100	35			
3	AECC-1E	4	3.2	2	----	----	----	2	50	18			
	TOTAL OF SEM VI	16	12.8	10	20	16	8	TOTAL MARKS	250	----		200	70
	TOTAL OF SEM V & VI	32	25.6	20	40	32	16	TOTAL MARKS	500	--	---	200	

STUDENT CONTACT HOURS PER WEEK: 28.8 HOURS (MINIMUM)

TOTAL MARKS FOR B.Sc.-III(Including AECC-ENGLISH): 700

THEORY AND PRACTICAL LECTURES OF 48 MINUTES EACH

TOTAL CREDITS FOR B.Sc.-II (SEMESTER I AND II): 36

DSE DISCIPLINE SPECIFIC ELECTIVE: A CANDIDATE SHALL SELECT 1 SUBJECTS FROM THE THREE SUBJECTS OFFERED AT B.Sc. –II (Physics, Chemistry, Mathematics, Statistics, Electronics, Computer Science (opt), Botany, Zoology, Biotechnology (opt./voc.), Geography, Geology, Seed Technology, Microbiology, Industrial Microbiology, Biochemistry (opt.), Psychology, Food Science and Quality Control.

AECC- ABILITY ENHANCEMENT COMPULSORY COURSE (1D & 1E)- ENGLISH

THERE SHALL BE ADDITIONAL COMPULSORY COURSES ENTITLED (1) "LOCAL SELF GOVERNMENT" AT SEMESTER-V AND (2) "CONSTITUTION OF INDIA" AT SEMESTER – VI. THE STUDY MATERIAL (CD) WILL BE PROVIDED BY THE UNIVERSITY. THE CERTIFICATE SHALL BE GIVEN BY THE COLLEGE ON THE BASIS OF ATTENDANCE.

THE AFFILIATED COLLEGE SHOULD DECLARE THE SUBJECTS AVAILABLE AT THE COLLEGE AS PER THE TEACHING PROVISIONS AND WORKLOAD.



Principal
 Gopal Krishna Gokhale College,
 Kolhapur.

SHIVAJI UNIVERSITY, KOLHAPUR

CBCS PATTERN (Draft)

TOTAL CREDITS AT B. Sc. I, II & III

CLASS	Work load per week		TOTAL MARKS	TOTAL CREDITS
	TOTAL LECTURES (Theory + Practical)	TOTAL HOURS		
B.Sc. – I (SEM I)	40	32	1100	52
B.Sc. – I (SEM II)	40	32		
B.Sc. – II (SEM III)	46	36.8	900	44
B.Sc. – II (SEM IV)	42	33.6		
B.Sc. – III (SEM V)	36	28.8	700	36
B.Sc. – III (SEM VI)	36	28.8		
TOTAL	240	192	2700	132



Patil
Principal
Gopal Krishna Gokhale College,
Kolhapur.

Nature of Question Paper (Except English)

Time : 3 hours

Total Marks: 100

- Instructions:** 1) All the questions are compulsory.
2) Answers to the two sections should be written in separate answer books.
3) Figures to the right indicate full marks.
4) Draw neat labeled diagrams wherever necessary.
(Paper setter may add or delete any instruction if required)

	SECTION	Marks	
1. Choose correct alternative.		8	
i)			
A)	B)	C)	D)
ii)			
A)	B)	C)	D)
iii)			
A)	B)	C)	D)
iv)			
A)	B)	C)	D)
v)			
A)	B)	C)	D)
vi)			
A)	B)	C)	D)
vii)			
A)	B)	C)	D)
viii)			
A)	B)	C)	D)



Patel
Principal
Gopal Krishna Gokhale College,
Kolhapur.

2. Attempt any two. 24

- A)
- B)
- C)

3. Attempt any three. 18

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

SECTION - II

4. Choose correct alternative. 8

- i) A) B) C) D)
- ii) A) B) C) D)
- iii) A) B) C) D)
- iv) A) B) C) D)
- v) A) B) C) D)
- vi) A) B) C) D)
- vii) A) B) C) D)



P. Patil
Principal
Gopal Krishna Gokhale College,
Kolhapur.

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

5. Attempt any two. 24

- A)
B)
C)

6. Attempt any three 18

- a)
b)
c)
d)
e)

-----XXX-----



P. S. Gokhale
Principal
Gopal Krishna Gokhale College,
Kolhapur.

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade
Revised Syllabus For
Master of Science
Part- I
Geology
CBCS PATTERN
Syllabus to be implemented from
June, 2019 onwards.



Patil
Principal
Gopal Krishna Gokhale College,
Kolhapur.

Explanation 1.1.2.1

Our college is affiliated to Shivaji University Kolhapur and minutes of the relevant Academic Council and BoS meetings regarding introduction of the courses and programmes has been approved by Shivaji University, Kolhapur. They are not available with the college. However, the minutes of the self designed bachelor of vocational (B. Voc.) courses are uploaded along with syllabus.



Patil
Principal
Gopal Krishna Gokhale College,
Kolhapur.