

Punyashlok Ahilyadevi Holkar Solapur University, Solapur



Name of the Faculty: Science & Technology

CHOICE BASED CREDIT SYSTEM

Syllabus Structure

Name of the Course: B. Sc. I, II, III Years

(Syllabus to be implemented from w.e.f. June 2019)

Punyashlok Ahilyadevi Holkar Solapur University, Solapur

Faculty of Science & Technology

Choice Based Credit System (CBCS), (w.e.f.2019-20) Structure for B. Sc-I

Subject/ Core Course	Name and Type of the Paper		No. of papers/ Practical	Hrs/week			Total Marks Per Paper	UA	CA	Credits
	Type	Name		L	T	P				
Class : B.Sc.- I Semester – I										
Ability Enhancement Course(AECC)	English(communication skill)		Paper- I	4.0			100	80	20	4.0
Core (*Students can opt any Four Subjects from the Twelve Subjects Listed below. Out of these Four Subjects One Subject will be CORE and other Three will be ELECTIVE Subjects.)	DSC 1A	Paper-I	2.5	--	--	50	40	10	4.0	
		Paper-II	2.5	--	--	50	40	10		
	DSC 2A	Paper-I	2.5	--	--	50	40	10	4.0	
		Paper-II	2.5	--	--	50	40	10		
	DSC 3A	Paper-I	2.5	--	--	50	40	10	4.0	
		Paper-II	2.5	--	--	50	40	10		
	DSC 4A	Paper-I	2.5	--	--	50	40	10	4.0	
		Paper-II	2.5	--	--	50	40	10		
Total				24	--	--	500	400	100	20
Class : B.Sc.- I Semester - II										
Ability Enhancement Course(AECC)	English (communication skill)		Paper- II	4.0			100	80	20	4.0
Core (*Students can opt any Four Subjects from the Twelve Subjects Listed below. Out of these Four Subjects One Subject will be CORE and other Three will be ELECTIVE Subjects.)	DSC 1B	Paper-III	2.5	--	--	50	40	10	4.0	
		Paper-IV	2.5	--	--	50	40	10		
	DSC 2B	Paper-III	2.5	--	--	50	40	10	4.0	
		Paper-IV	2.5	--	--	50	40	10		
	DSC 3B	Paper-III	2.5	--	--	50	40	10	4.0	
		Paper-IV	2.5	--	--	50	40	10		
	DSC 4B	Paper-III	2.5	--	--	50	40	10	4.0	
		Paper-IV	2.5	--	--	50	40	10		
		Democracy, Elections and Good Governance		3.0			50	40	10	NC
Total (Theory)				27	--	--	550	440	110	20
Core	DSC 1 A & 1B		Practical I and II	--	--	4	100	80	20	4.0
	DSC 2 A & 2B		Practical I and II	--	--	4	100	80	20	4.0
	DSC 3A & 3B		Practical I and II	--	--	4	100	80	20	4.0
	DSC 4A & 4B		Practical I and II	--	--	4	100	80	20	4.0
Total (Practical)						16	400	320	80	16
Grand Total				51		16	1450	1160	290	56

*Core Subjects

**Chemistry/Physics/Electronics/Computer Science/Mathematics/Statistics/Botany/Zoology/
Microbiology/Geology/ Geography/Psychology**

PunyashlokAhilyadeviHolkar Solapur University, Solapur

Faculty of Science & Technology Choice Based Credit System (CBCS) (w.e.f.2020-21)

Draft Structure for B. Sc-II

Subject/ Core Course	Name and Type of the Paper		No. of papers / Practical	Hrs/week			Total Marks Per Paper	UA	CA	Credits
	Type	Name		L	T	P				
Class :	B.Sc.- II Semester – III									
Core (*Students can opt any Three subjects among the Four Subjects offered at B.Sc.I. Out of Three Subjects offered One Subject will be the Core Subject OR Students can opt any Two subjects among the Four Subjects offered at B.Sc.I. Out of Two Subjects One Subject will be the Core Subject and any One Subject among the other will be Elective Subject	DSC 1C		Paper-V	3.0	--	--	50	40	10	4.0
			Paper-VI	3.0	--	--	50	40	10	
	DSC 2C		Paper-V	3.0	--	--	50	40	10	4.0
			Paper-VI	3.0	--	--	50	40	10	
	DSC 3C		Paper-V	3.0	--	--	50	40	10	4.0
			Paper-VI	3.0	--	--	50	40	10	
Grand Total				18	--	--	300	240	60	12
Class :	B.Sc.- II Semester –IV									
Core (*Students can opt any Three subjects among the Four Subjects offered at B.Sc.I. Out of Three Subjects offered One Subject will be the Core Subject OR Students can opt any Two subjects among the Four Subjects offered at B.Sc.I. Out of Two Subjects One Subject will be the Core Subject and any One Subject among the other will be Elective Subject	DSC 1D		Paper-VII	3.0	--	--	50	40	10	4.0
			Paper-VIII	3.0	--	--	50	40	10	
	DSC 2D		Paper-VII	3.0	--	--	50	40	10	4.0
			Paper-VIII	3.0	--	--	50	40	10	
	DSC 3D		Paper-VII	3.0	--	--	50	40	10	4.0
			Paper-VIII	3.0	--	--	50	40	10	
AECC - Environmental Studies				3.0	--	--	50	40	10	NC
Total (Theory)				21	--	--	350	280	70	12
DSE (Practical)	DSC 1C & 1D		Pr. III&IV	--	--	8	100	80	20	4.0
	DSC 2C & 2D		Pr. III&IV	--	--	8	100	80	20	4.0
	DSC 3C & 3D		Pr. III&IV	--	--	8	100	80	20	4.0
Total (Practical)						24	300	240	60	12
Grand Total				39		24	950	760	190	36

*Core Subjects

Chemistry/Physics/Electronics/Computer Science/Mathematics/Statistics/Botany/Zoology/
Microbiology/Geology/ Geography/Psychology

Core Subjects- (Additional)-Geochemistry/Biochemistry/Meteorology/Plant Protection

Punyashlok Ahilyadevi Holkar Solapur University, Solapur

Faculty of Science & Technology
Choice Based Credit System (CBCS)
(w.e.f.2021-22)

Draft Structure for B. Sc-III

Subject/ Core Course	Name and Type of the Paper		No. of papers/ Practical	Hrs/week			Total Marks Per Paper	UA	CA	Credits	
	Type	Name		L	T	P					
Class :	B.Sc.- III Semester – V										
Ability Enhancement Course(AECC)	English (Business English)		Paper- III	4.0	--	--	100	80	20	4.0	
Discipline Specific Elective (DSE) (Students can opt any one subjects among the three Subjects excluding interdisciplinary offered at B.Sc II.	DSE-1A		Paper- IX	3	--	--	100	80	20	4.0	
			DSE- 2 A	Paper -X	3	--	--	100	80	20	4.0
			DSE- 3 A	Paper- XI	3	--	--	100	80	20	4.0
			DSE- 4 A	Paper- XII	3	--	--	100	80	20	4.0
Grand Total				16	--	--	500	400	100	20	
Class :	B.Sc.- III Semester –VI										
Ability Enhancement Course(AECC)	English (Business English)		Paper IV	4.0	--	--	100	80	20	4.0	
DSE (Students can opt any one subjects among the three Subjects excluding interdisciplinary offered at B.Sc. II.	DSE- 1B		Paper -XIII	3.0	--	--	100	80	20	4.0	
			DSE- 2B	Paper- XIV	3.0	--	--	100	80	20	4.0
			DSE- 3 B	Paper- XV	3.0	--	--	100	80	20	4.0
			DSE- 4 B	Paper- XVI	3.0	--	--	100	80	20	4.0
Total (Theory)				16	--	--	500	400	100	20	
DSE (Practical Annual Exam)	DSE- 1 A&B		Practical- IX & XIII	--	--	5	100	80	20	4.0	
	DSE -2 A&B		Practical- X&XIV	--	--	5	100	80	20	4.0	
	DSE- 3 A&B		Practical- XI&XV			5	100	80	20	4.0	
	DSE- 4 A& B		Practical- XII & XVI			5	100	80	20	4.0	
Total (Practicals)						20	400	320	80	16	
Grand Total				32		20	1400	1120	280	56	

Summary of the Structure of B.Sc. Programme as per CBCS pattern

Class	Semester	Marks-Theory	Credits-Theory	Marks-Practical	Credits-Practicals	Total – credits
B.Sc.-I	I	500	20	--	--	20
	II	550	20	400	16	36
B.Sc.-II	III	300	12	--	--	12
	IV	350	12	300	12	24
B.Sc.-III	V	500	20	--	--	20
	VI	500	20	400	16	36
Total		2700	104	1100	44	148

B.Sc.Programme :

Total Marks : Theory + Practical's = 2700 + 1100 = 3800

Credits : Theory + Practical's = 104 + 44 = 148

Numbers of Papers Theory: Ability Enhancement Course(AECC) : **02**

Theory: Discipline Specific Elective Paper (DSE) : **08**

Theory: DSC : **14**

Total : Theory Papers : **42**

: Practical Papers : **11**

Abbreviations:

L: Lectures

T: Tutorials

P: Practicals

UA : University Assessment

CA : College Assessment

DSC / CC: Core Course

AEC : Ability Enhancement Course

DSE : Discipline Specific Elective Paper

SEC : Skill Enhancement Course

GE : Generic Elective

CA: Continuous Assessment

ESE: End Semester Examination

Punyashlok Ahilyadevi Holkar Solapur University, Solapur

Faculty of Science Choice Based Credit System (CBCS), (w.e.f.2019-20) Revised Structure for B. Sc-I

Subject/ Core Course	Name and Type of the Paper		No. of papers/ Practical	Hrs/week			Total Marks Per Paper	UA	CA	Credits
	Type	Name		L	T	P				
Class : B.Sc.- I Semester - I										
Ability Enhancement Course(AECC)		English Paper I Part-A (communication skill)		4.0			50	40	10	2.0
Core (*Students can opt any Four Subjects from the Twelve Subjects Listed below. Out of these Four Subjects One Subject will be CORE and other Three will be ELECTIVE Subjects.)		DSC 1A	Section I	2.5	--	--	50	40	10	4.0
			Section II	2.5	--	--	50	40	10	
		DSC 2A	Section I	2.5	--	--	50	40	10	4.0
			Section II	2.5	--	--	50	40	10	
		DSC 3A	Section I	2.5	--	--	50	40	10	4.0
			Section II	2.5	--	--	50	40	10	
		DSC 4A	Section I	2.5	--	--	50	40	10	4.0
		Section II	2.5	--	--	50	40	10		
Total				24	--	--	450	360	90	18
Class : B.Sc.- I Semester - II										
Ability Enhancement Course(AECC)		English Paper I Part-B (communication skill)		4.0			50	40	10	2.0
Core (*Students can opt any Four Subjects from the Twelve Subjects Listed below. Out of these Four Subjects One Subject will be CORE and other Three will be ELECTIVE Subjects.)		DSC 1B	Section I	2.5	--	--	50	40	10	4.0
			Section II	2.5	--	--	50	40	10	
		DSC 2B	Section I	2.5	--	--	50	40	10	4.0
			Section II	2.5	--	--	50	40	10	
		DSC 3B	Section I	2.5	--	--	50	40	10	4.0
			Section II	2.5	--	--	50	40	10	
		DSC 4B	Section I	2.5	--	--	50	40	10	4.0
		Section II	2.5	--	--	50	40	10		
		Democracy, Elections and Good Governance		3			50	40	10	NC
Total (Theory)				24	--	--	450	360	90	18
Core		DSC 1 A & 1B	Practical I	--	--	4	100	80	20	4.0
		DSC 2 A & 2B	Practical I	--	--	4	100	80	20	4.0
		DSC 3A & 3B	Practical I	--	--	4	100	80	20	4.0
		DSC 4A & 4B	Practical I	--	--	4	100	80	20	4.0
Total (Pract.)						16	400	320	80	16
Grand Total				48		16	1300	1040	260	52

***Core Subjects**

**Chemistry/Physics/Electronics/Computer Science/Mathematics/Statistics/Botany/Zoology/
Microbiology/Geology/ Geography/Psychology**

Punyashlok Ahilyadevi Holkar Solapur University, Solapur

Faculty of Science

Choice Based Credit System (CBCS)(w.e.f.2020-21)

Revised Structure for B. Sc-II

Subject/ Core Course	Name and Type of the Paper		No. of papers/ Practical	Hrs/week			Total Marks Per Paper	UA	CA	Credits
	Type	Name		L	T	P				
Class :	B.Sc.- II Semester - III									
Core (*Students can opt any Three subjects among the Four Subjects offered at B.Sc.I. Out of Three Subjects offered One Subject will be the Core Subject OR	DSC 1C	Section I	3	--	--	50	40	10	4.0	
		Section II	3	--	--	50	40	10		
	DSC 2C	Section I	3	--	--	50	40	10	4.0	
		Section II	3	--	--	50	40	10		
	DSC 3C	Section I	3	--	--	50	40	10	4.0	
		Section II	3	--	--	50	40	10		
	AECC - Environmental Studies		3	--	--	50	40	10	NC	
	SEC-1		6			100	80	20	4.0	
Grand Total			27	--	--	450	360	90	16	
Class :	B.Sc.- II Semester - IV									
Core (*Students can opt any Three subjects among the Four Subjects offered at B.Sc.I. Out of Three Subjects offered One Subject will be the Core Subject OR Students can opt any Two subjects among the Four Subjects offered at B.Sc.I. Out of Two Subjects One Subject will be the Core Subject and any One Subject among the other willbe Elective Subject	DSC 1D	Section I	3	--	--	50	40	10	4.0	
		Section II	3	--	--	50	40	10		
	DSC 2D	Section I	3	--	--	50	40	10	4.0	
		Section II	3	--	--	50	40	10		
	DSC 3D	Section I	3	--	--	50	40	10	4.0	
		Section II	3	--	--	50	40	10		
	SEC-2		6			100	80	20	4.0	
Total (Theory)			24	--	--	400	320	80	16	
Core	DSC 1C & 1D	Pr. II&III	--	--	8	100	80	20	4.0	
	DSC 2C & 2D	Pr. II&III	--	--	8	100	80	20	4.0	
	DSC 3C & 3D	Pr. II&III	--	--	8	100	80	20	4.0	
Total (Practicals)					24	300	240	60	12	
Grand Total			51		24	1150	920	230	44	

*Core Subjects

Chemistry/Physics/Electronics/Computer Science/Mathematics/Statistics/Botany/Zoology/

Microbiology/Geology/ Geography/Psychology

Core Subjects- (Additional)-Geochemistry/Biochemistry/Meterology/Plant Protection

Punyashlok Ahilyadevi Holkar Solapur University, Solapur
Faculty of Science
Choice Based Credit System (CBCS)(w.e.f.2021-22)
Revised Structure for B. Sc-III

Subject/ Core Course	Name and Type of the Paper		No. of papers/ Practical	Hrs/week			Total Marks Per Paper	UA	CA	Credits
	Type	Name		L	T	P				
Class :		B.Sc.- III Semester - V								
Ability Enhancement Course(AECC)		English (Business English)	Paper II Part A	4	--	--	50	40	10	2.0
Core (Students can opt any one subjects among the three		DSE 1 A	Paper IX	4	--	--	100	80	20	4.0
		DSE 2 A	Paper X	4	--	--	100	80	20	4.0
Subjects excluding interdisciplinary offered at B.Sc.II.		DSE 3A	Paper XI	4	--	--	100	80	20	4.0
		DSE 4 A	Paper XII	4	--	--	100	80	20	4.0
		SEC 3		4	--	--	100	80	20	4.0
Grand Total				24	--	--	550	440	110	22
Class :		B.Sc.- III Semester -VI								
Ability Enhancement Course(AECC)		English (Business English)	Paper II Part B	4	--	--	50	40	10	2.0
Core (Students can opt any one subjects among the three		DSE 1 B	Paper XIV	4	--	--	100	80	20	4.0
		DSE 2B	Paper XV	4	--	--	100	80	20	4.0
Subjects excluding interdisciplinary offered at B.Sc. II.		DSE 3B	Paper XVI	4	--	--	100	80	20	4.0
		DSE 4B	Paper XVII	4	--	--	100	80	20	4.0
		SEC 4	Paper XVIII	4	--	--	100	80	20	4.0
Total (Theory)				24	--	--	550	440	110	22
Core		DSE 1A &1B	Practical IV	--	--	5	100	80	20	4.0
		DSE 2A & 2B	Practical V	--	--	5	100	80	20	4.0
		DSE 3A & 3B	Practical VI	--	--	5	100	80	20	4.0
		DSE 4A & 4B	Practical VII	--	--	5	100	80	20	4.0
Total (Practicals)						20	400	320	80	16
Grand Total				48		20	1500	1200	300	60

Summary of the Structure of B.Sc. Programme as per CBCS pattern

Class	Semester	Marks-Theory	Credits-Theory	Marks-Practical	Credits-Practical's	Total - credits
B.Sc.-I	I	450	18	--	--	18
	II	450	18	400	16	34
B.Sc.-II	III	500	20	--	--	20
	IV	500	20	300	12	32
B.Sc.-III	V	550	22	--	--	22
	VI	550	22	400	16	38
Total		3000	120	1100	44	164

B.Sc. Programme :

Total Marks : Theory + Practicals = 3000 + 1100 = 4100

Credits : Theory + Practicals = 120 + 44 = 164

Numbers of Papers Theory: Ability Enhancement Course (AECC) : 04
 Theory: Discipline Specific Elective Paper (DSE) : 08
 Theory: DSC : 14
 Skill Enhancement Courses : 04

Total : Theory Papers : 30
 : Practical Papers : 11

Abbreviations:

L: Lectures

T: Tutorials

P: Practicals

UA : University Assessment

CA : College Assessment

CC: Core Course

AEC : Ability Enhancement Course

DSE : Discipline Specific Elective Paper

SEC : Skill Enhancement Course

GE : Generic Elective