


Curriculum Structure Session (2023-2024 onwards)									
Name of the Program: B.Sc. Certificate Program									
Year: First		Semester: I (Pawas)							
Course Code	Course Title	Contact Hrs per Week			Credits	Weightage (%)			
		L	T	P		CWS	MTE	ETE	
<b>Discipline Specific Core (DSC): (Select any Three subjects)</b>									
<b>Botany</b>									
24BBO5101T	Diversity of Plant Kingdom	3	0	0	3	10	20	70	
24BBO5101P	Botany Practical -I	0	0	2	1	--	--	100	
<b>Zoology</b>									
24BZO5101T	Biology of Non-Chordates	3	0	0	3	10	20	70	
24BZO5101P	Non-Chordate Laboratory	0	0	2	1	--	--	100	
<b>Chemistry</b>									
24BCH5101T	Chemistry Paper -I	3	0	0	3	10	20	70	
24BCH5101P	Chemistry Practical	0	0	2	1	--	--	100	
<b>Mathematics</b>									
24BMT5101T	Calculus And Optimization Techniques	3	0	0	3	10	20	70	
24BMT5101P	Practical I Lab Work-Optimization Techniques	0	0	2	1	--	--	100	
<b>Physics</b>									
24BPH5101T	Mechanics & Oscillations	3	0	0	3	10	20	70	
24BPH5101P	Physics Lab	0	0	2	1	--	--	100	
<b>Geography</b>									
24BGS5101T	Physical Geography- I (Geomorphology)	3	0	0	3	10	20	70	
24BGS5101P	Practical Geography	0	0	2	1	--	--	100	
<b>Physical Education</b>									
24BPE5101T	History and Foundation of Physical Education-I	3	0	0	3	10	20	70	
24BPE5101P	Practical	0	0	2	1	--	--	100	
<b>Computer Application</b>									
24BCS5101T	Computer Fundamentals & PC Software	3	0	0	3	10	20	70	
24BCS5101P	Computer Fundamentals & PC Software Lab	0	0	2	1	--	--	100	
<b>Discipline Specific Elective (DSE):</b>									
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<b>Minor Subject</b>									
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<b>Multidisciplinary Course (MDC):</b>									
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<b>Ability Enhancement Course (AEC):</b>									
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<b>Skill Enhancement Course (SEC):</b>									
---	---	--	--	--	3	--	--	--	
<b>Value Added Course (VAC):</b>									
---	---	--	--	--	2	--	--	--	
<b>Seminar/Internship/Apprenticeship/Project/Community Outreach (S/I/A/P/C):</b>									
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<b>Total</b>					<b>24</b>				

  
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Summary: I Semester (Pawas)		
S.N.	Particulars	Credits
1.	Discipline Specific Core (DSC):	12
2.	Discipline Specific Elective (DSE):	00
3.	Minor Subject	02
4.	Multidisciplinary Course (MDC):	03
5.	Ability Enhancement Course (AEC):	02
6.	Skill Enhancement Course (SEC):	03
7.	Value Added Course (VAC):	02
8.	Seminar/Internship/Apprenticeship/Project/Community Outreach (S/I/A/P/C):	00
<b>Total</b>		<b>24</b>
\$CW (Class work): It would include attendance, class test/quiz test/assignments, ppt, play, learn by fun activities etc.		

**Note:** Minor subject can be selected as per the minor subjects given on University website, it must be different from Core subjects. In case of MDC/SEC/AEC/VAC: to be selected from the list of courses given on University website.

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**Curriculum Structure Session (2023-2024 onwards)**

Name of the Program: B.Sc. Certificate Program

Year: First

Semester: II (Vasant)

Course Code	Course Title	Contact Hrs per Week			Credits	Weightage (%)		
		L	T	P		CWS	MTE	ETE

**Discipline Specific Core (DSC): (Select any Three subjects)**

**Botany**

24BBO5201T	Cell Biology, Genetics and Plant Breeding	3	0	0	3	10	20	70
24BBO5201P	Botany Practical- II	0	0	2	1	--	--	100

**Zoology**

24BZO5201T	Comparative Anatomy and Development Biology of Vertebrates	3	0	0	3	10	20	70
24BZO5201P	Comparative Anatomy and Development Biology of Vertebrates Laboratory	0	0	2	1	--	--	100

**Chemistry**

24BCH5201T	Chemistry Paper -II	3	0	0	3	10	20	70
24BCH5201P	Chemistry Practical	0	0	2	1	--	--	100

**Mathematics**

24BMT5201T	Discrete Mathematics & Vector Calculus	3	0	0	3	10	20	70
24BMT5201P	Practical I Lab Work-Discrete Mathematics	0	0	2	1	--	--	100

**Physics**

24BPH5201T	Electromagnetism	3	0	0	3	10	20	70
24BPH5201P	Physics Lab	0	0	2	1	--	--	100

**Geography**

24BGS5201T	Physical Geography- II (Climatology and Oceanography)	3	0	0	3	10	20	70
24BGS5201P	Practical Geography	0	0	2	1	--	--	100

**Physical Education**

24BPE5201T	History and Foundation of Physical Education-II	3	0	0	3	10	20	70
24BPE5201P	Practical	0	0	2	1	--	--	100

**Computer Application**

24BCS5201T	Programming with C	3	0	0	3	10	20	70
24BCS5201P	Programming with C Lab	0	0	2	1	--	--	100

**Discipline Specific Elective (DSE):**

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**Minor Subject**

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**Multidisciplinary Course (MDC):**

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**Ability Enhancement Course (AEC):**

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**Skill Enhancement Course (SEC):**

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**Value Added Course (VAC):**

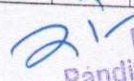
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**Seminar/Internship/Apprenticeship/Project/Community Outreach (S/I/A/P/C):**

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**Total**      24

Pawas Semester I

  
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Summary: II Semester (Vasant)		Credits
S.N.	Particulars	
1.	Discipline Specific Core (DSC):	12
2.	Discipline Specific Elective (DSE):	00
3.	Minor Subject	02
4.	Multidisciplinary Course (MDC):	03
5.	Ability Enhancement Course (AEC):	02
6.	Skill Enhancement Course (SEC):	03
7.	Value Added Course (VAC):	02
8.	Seminar/Internship/Apprenticeship/Project/Community Outreach (S/I/A/P/C):	00
<b>Total</b>		<b>24</b>
SCW (Class work): It would include attendance, class test/quiz test/assignments, ppt, play, learn by fun activities etc.		

**Note:** Minor subject can be selected as per the minor subjects given on University website, it must be different from Core subjects. In case of MDC/SEC/AEC/VAC: to be selected from the list of courses given on University website.

  
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**Curriculum Structure Session (2023-2024 onwards)**

Name of the Program: B.Sc. Certificate Program

Year: Second

Semester: III (Pawas)

Course Code	Course Title	Contact Hrs per Week			Credits	Weightage (%)		
		L	T	P		CW\$	MTE	ETE

**Discipline Specific Core (DSC): (Select any Three subjects)**

**Botany**

24BBO6301T	Taxonomy and Economic Botany	3	0	0	3	10	20	70
24BBO6301P	Botany Practical- III	0	0	2	1	--	--	100

**Zoology**

24BZO6301T	Cell and Molecular Biology	3	0	0	3	10	20	70
24BZO6301P	Cell and Molecular Biology Laboratory	0	0	2	1	--	--	100

**Chemistry**

24BCH6301T	Chemistry Paper -III	3	0	0	3	10	20	70
24BCH6301P	Chemistry Practical	0	0	2	1	--	--	100

**Mathematics**

24BMT6301T	Real Analysis And Numerical Analysis - I	3	0	0	3	10	20	70
24BMT6301P	Practical I Lab Work-Numerical Analysis - I	0	0	2	1	--	--	100

**Physics**

24BPH6301T	Optics	3	0	0	3	10	20	70
24BPH6301P	Physics Lab	0	0	2	1	--	--	100

**Geography**

24BGS6301T	Human Geography	3	0	0	3	10	20	70
24BGS6301P	Practical Geography	0	0	2	1	--	--	100

**Physical Education**

24BPE6301T	Anatomy And Physiology Of Exercise	3	0	0	3	10	20	70
24BPE6301P	Practical	0	0	2	1	--	--	100

**Computer Application**

24BCS6301T	Database Management System	3	0	0	3	10	20	70
24BCS6301P	DBMS Lab	0	0	2	1	--	--	100

**Discipline Specific Elective (DSE):**

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**Minor Subject**

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**Multidisciplinary Course (MDC):**

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**Ability Enhancement Course (AEC):**

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**Skill Enhancement Course (SEC):**

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**Value Added Course (VAC):**

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**Seminar/Internship/Apprenticeship/Project/Community Outreach (S/I/A/P/C):**

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**Total**      24

Pawas Semester I

  
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Summary: III Semester (Pawas)		Credits
S.N.	Particulars	
1.	Discipline Specific Core (DSC):	12
2.	Discipline Specific Elective (DSE):	00
3.	Minor Subject	04
4.	Multidisciplinary Course (MDC):	03
5.	Ability Enhancement Course (AEC):	02
6.	Skill Enhancement Course (SEC):	03
7.	Value Added Course (VAC):	00
8.	Seminar/Internship/Apprenticeship/Project/Community Outreach (S/I/A/P/C):	00
<b>Total</b>		<b>24</b>
SCW (Class work): It would include attendance, class test/quiz test/assignments, ppt, play, learn by fun activities etc.		

**Note:** Minor subject can be selected as per the minor subjects given on University website, it must be different from Core subjects. In case of MDC/SEC/AEC/VAC: to be selected from the list of courses given on University website.

  
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**Curriculum Structure Session (2023-2024 onwards)**

Name of the Program: B.Sc. Certificate Program

Year: Second

Semester: IV (Vasant)

Pawas Semester I

Course Code	Course Title	Contact Hrs per Week			Credits	Weightage (%)		
		L	T	P		CWS	MTE	ETE
<b>Discipline Specific Core (DSC): (Select any Three subjects)</b>								
<b>Botany</b>								
24BBO6401T	Plant Physiology and Biochemistry	3	0	0	3	10	20	70
24BBO6401P	Botany Practical- IV	0	0	2	1	--	--	100
<b>Zoology</b>								
24BZO6401T	Mammalian Physiology and Biochemistry	3	0	0	3	10	20	70
24BZO6401P	Mammalian Physiology and Biochemistry Laboratory	0	0	2	1	--	--	100
<b>Chemistry</b>								
24BCH6401T	Chemistry Paper -IV	3	0	0	3	10	20	70
24BCH6401P	Chemistry Practical	0	0	2	1	--	--	100
<b>Mathematics</b>								
24BMT6401T	Differential Equations And Numerical Analysis-II	3	0	0	3	10	20	70
24BMT6401P	Practical I Lab Work-Numerical Analysis-II	0	0	2	1	--	--	100
<b>Physics</b>								
24BPH6401T	Thermodynamics and statistical Physics	3	0	0	3	10	20	70
24BPH6101T	Physics Lab	0	0	2	1	--	--	100
<b>Computer Application</b>								
24BCS6401T	Internet & Web programming	3	0	0	3	10	20	70
24BCS6401P	Internet & Web programming Lab	0	0	2	1	--	--	100
<b>Geography</b>								
24BGS6401T	Economics and Resource Geography	3	0	0	3	10	20	70
24BGS6401P	Practical Geography	0	0	2	1	--	--	100
<b>Physical Education</b>								
24BPE6401T	Management And Methods Of Physical Education	3	0	0	3	10	20	70
24BPE6401P	Practical	0	0	2	1	--	--	100
<b>Discipline Specific Elective (DSE):</b>								
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<b>Minor Subject</b>								
---	---	--	--	--	2	--	--	--
<b>Multidisciplinary Course (MDC):</b>								
---	---	--	--	--	3	--	--	--
<b>Ability Enhancement Course (AEC):</b>								
---	---	--	--	--	2	--	--	--
<b>Skill Enhancement Course (SEC):</b>								
---	---	--	--	--	3	--	--	--
<b>Value Added Course (VAC):</b>								
---	---	--	--	--	2	--	--	--
<b>Seminar/Internship/Apprenticeship/Project/Community Outreach (S/I/A/P/C):</b>								
---	---	--	--	--	--	--	--	--
<b>Total</b>					<b>24</b>			

  
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Summary: I Semester (Pawas)		
S.N.	Particulars	Credits
1.	Discipline Specific Core (DSC):	12
2.	Discipline Specific Elective (DSE):	00
3.	Minor Subject	04
4.	Multidisciplinary Course (MDC):	00
5.	Ability Enhancement Course (AEC):	02
6.	Skill Enhancement Course (SEC):	00
7.	Value Added Course (VAC):	02
8.	Seminar/Internship/Apprenticeship/Project/Community Outreach (S/I/A/P/C):	00
<b>Total</b>		<b>20</b>
\$CW (Class work): It would include attendance, class test/quiz test/assignments, ppt, play, learn by fun activities etc.		

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