B.P.S. MAHILA VISHWAVIDYALAYA
KHANPUR KALAN , SONEPAT-131305

(A State University Established under the Legislative Act No. 31/2006)

B.P.S.M. GIRLS COLLEGE

ORDINANCE

Bachelor of Science (Computer Science)

1. Definitions:

1.1 Programme stands for **B. Sc. (Bachelor of Science)**

1.1. **Paper** stands for individual semester papers.

1.2. **Credit** is a weight age assigned to a paper in terms of contact hours .

1.3. **Grade** stands for letter grade assigned to a student on the basis of examination of a course on 10 point scale.

1.4. **Grade point** stands for numerical equivalent of the letter grade.

2. Duration :

The normal duration of the programme leading to award of B.Sc.Degree is **three years** comprising of **six semesters**. Maximum duration of the UG Degree is **five years**. The student to be eligible for the award of degree has to clear all the papers offered during normal or maximum duration of all the specified programmes, failing which she will not be allowed to continue her programme.

3. Admission:

3.1 **Eligibility:** A candidate shall be eligible for admission to Bachelor of Science (Computer Science) if she has passed the Senior Secondary examination (10+2) with PCM with 50% marks in aggregate of a recognized Board of Secondary Education or an examination recognized by the University as its equivalent. There shall be a relaxation of 5% in the case of S.C/S.T./Person with disability.

No candidate, who is in employment (full time/part time /honorary service), shall be eligible to take admission in B.Sc. programme without taking leave from her institution/office etc. from the date of admission to the termination of her final semester examination including other essential requirements. She has to submit an affidavit in this regard. If found in violation of this rule her admission shall stand cancelled

3.2 **Procedure:** Admission to B.Sc. programme is to be made through a merit list prepared by the college or any other criteria adopted by University. The candidates having supplementary/compartment/reappear in the qualifying examination shall not be allowed for admission to the programme.

3.3 Admission procedure and policy shall be laid down from time to time by the Admission Committee appointed by the College. The committee will look after the admission process.

3.4 At the time of admission all original certificates will be verified.

3.5 The Registration of the students is governed by the rules and regulations as laid down by the University from time to time.

4. Fee :

The programme fees shall be paid by the candidate as prescribed by the University from time to time. The fee for the first year is to be deposited at the time of admission as per instructions notified at that time.

5. Teaching Methodology:

Teaching methods shall include class room Teaching, Assignments, Practical, Viva-Voce, Lab Work, Seminar, Project Work, Presentation etc.

6. Credit Weight age :

Each paper has a certain number of credits which reflect its weight age. Credits of a paper are evaluated as under:-

6.1 **Lecture**: For all lecture courses, one credit per lecture per week per semester will generally be adopted.

6.2 **Tutorial :** for tutorial half credit per tutorial per week per semester will be assigned.

6.2 **Practical:** One laboratory hour per week per semester will be assigned half credit.

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7. Examination:

7.1 At the end of the each semester, there shall be an examination where each candidate shall be examined in the papers studied by them, in that semester. Each semester examination shall be designated as first semester examination, second semester examination, and third semester examination and so on.

7.2 The examination in each semester will be held according to the syllabi approved by the Board of Studies. The Board of examiners shall be appointed for each paper and shall be recommended by the Under Graduate Board of Studies (UG BOS).

7.3 The examination shall consist of theory papers and practical examination. Theory papers are to be set by the internal/external paper setters appointed by the Vice-Chancellor from a panel of examiners submitted by the chairman of the department duly approved by the BOS of the concerned department.

7.4 For practical examination viva-voce shall be conducted jointly by the **external** and **internal** examiners. If an external examiner is not able to join, alternate examiner (including those of the same University dept.) may be appointed by the Chairperson of the concerned dept. with the intimation to the Controller of Examinations in the following preferential order: i) From outside ii) From BPSMV, Khanpur Kalan.

7.5 The examination for all odd semester will normally be held in December/January and & even semesters in May/June on such date as provided by the University. The concerned teacher/paper coordinator should ensure that 100% syllabus is covered in each subject before the semester examination.

7.6 Every paper is coordinated by a member of the teaching staff of the department which is offering the paper in a given semester. This faculty member is called the **paper coordinator**. He/She has the full responsibility for conducting the paper, coordinating the work of the other members of the faculty involved in the paper, holding the minor test and assignments. For any difficulty, the student is expected to approach the paper coordinator for advice and clarification. All the responsibilities from teaching to the award of final grades will be of the paper-coordinator.

7.7 Every student has to appear in the minor tests. If a student does not take a minor test, she shall be awarded zero marks in the test. The marks obtained in sessional/practical/theory/drawing/general proficiency are to be

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submitted to the examination branch duly signed by the chairperson of the department before the close of semester examination.

7.8 If a candidate, after attending the classes for the paper of studies in the Department either not appeared or having appeared in any semester examination has failed in one or more papers for that examination, she can appear for such papers at subsequent examinations without attending a fresh paper of studies for that semester such a candidate may, in the meantime, prosecute his/her studies for the next semesters. Supplementary examinations for the last two semesters will be held after six months i.e. for odd semester in the month of May and for even semester in the month of December/January.

7.9 For holding the Minor Tests during even and odd semester, the schedule of minor exam shall be laid down by teacher(s) concerned in consultation with the Chairperson of the Department as the case may be and shall be made known to the students at the commencement of each semester.

7.10 If any of the department wants to alter the dates due to some reason to the satisfaction of the Chairperson of the Department, the date of conduct of Major Test should not go beyond the 1st week of January so that the results are not delayed.

7.11 For Minor Test, the syllabus for Examination will be what is covered in particular term. The Major Test will be based on the entire syllabus. Every teacher will submit in writing to the Chairperson at the end of term i.e. intervening period between Minor Tests and Major Test, the content of the syllabus covered during the term.

7.12 The examination branch will design standardized Performa's' for maintaining the following records at the Department level :-

1. Minor Test Awards
2. Major Test Awards
3. Awards and Co-curricular Activities with details of activities.
4. Consolidated Results.

8. Reappear Examination / Supplementary

Reappear / Supplementary Examination will be held in even semester for even semester papers & in odd semester for odd semester papers. For 3rd and 4th semester the paper will be held in subsequent semester.

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Semester	1	2	3	4
Along with	3	4	Subsequent odd semester	Subsequent even semester

9. Evaluation & Grading:

9.1 The assessment will be 50% internal and 50% external.

9.2 The students have to qualify internal as well as external test separately.

9.3 The minimum marks required to pass the examination shall be 40% in eternal and external separately.

9.4 The weight age for internal evaluation is as given below:-

Component	Weightage
1. Two mid term tests	60%
2 Seminar/Project/Practical/Presentation	35%
3. Attendance	5%

9.5 **Ad-hoc Grace**

If there is any discrepancy/ out of syllabus/ printing error/untoward incident during the examination, the matter will be referred to a standing committee of:

    (i) Controller of Examination

    (ii) HOD of the concerned department

    (iii) One faculty member concerning the subject.

The Committee may recommend recon duct of the paper or uniform grace marks to all but that should not exceed 10% marks of the particular paper.

9.6 **Moderation of Marks:**

(a) Internal Examinations:- If there are more than one teacher associated in any internal assessment, one of the member be made coordinator by the concerned HOD and he/she along with the others can moderate the marks to maintain uniformity so that no student get undue advantage or disadvantage. It can be done by fixing criteria beforehand.

(b) External Examinations:- If there is unusual variation (Very high or very low) in the awards, the COE may refer the matter to a Moderation Committee consisting of:

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    (i)   Controller of Examination
    (ii) HOD of the concerned department
    (iii) One faculty member concerning the subject.

As per recommendation of the Committee the result may be revised.

9.6   In case the candidate is fail or has failed in the internal examination, the internal examiner may conduct the re-examination as and when feel suitable with prior approval of the head of the department.

9.7   **Grading :-**The academic performance of a student shall be graded on a scale as prescribed by the university. The department concerned shall only prescribe the pass grade.

9.7.1 After finalization of the marks the same shall be displayed on department notice board for a duration of two days for information of the students. Students who have a specific grievance against the marks awarded to her, may discuss the same with the concerned course coordinator who after consideration of the grievances of all the students shall finalize the marks to be awarded for the Papers

9.7.2 Before submission of the finalized award list in a prescribed formation to the concerned administrative office the individual course coordinator shall discuss the marks distribution for his/her faculty of study. However, the final decision with regards to marks will vest with the course coordinator.

9.7.3 On receipt of the award lists for all courses offered by a given faculty of study the concerned administrative office shall put up the consolidated results for that faculty for discussion and approval from the departmental staff Council (All Faculty Members).

9.7.4 The academic performance of a student shall be graded on a ten–point scale. The award of grades based upon marks obtained out of 100 shall be made as follows:

Academic Performance	Letter Grades	Grade Points (p)
Outstanding	A$^+$	10
Extraordinary	A	09
Excellent	B+	08
Very Good	B	07
Good	C+	06
Average	C	05
Poor	D	04
Very Poor	E	03

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Note: 1. Pass Grade is Grade C and higher grades
2. Grade D and E are Fail Grades.

9.8.5 For the award of grades based on absolute marks out of 100 shall be made as follows:

Marks		Grade		Marks
90	$\leq$	A+	$\leq$	100
80	$\leq$	A	$\leq$	89
70	$\leq$	B^+	$\leq$	79
60	$\leq$	B	$\leq$	69
50	$\leq$	C^+	$\leq$	59
40	$\leq$	C	$\leq$	49
30	$\leq$	D	$\leq$	39
0	$\leq$	E	$\leq$	29

Note: 1. Pass Grade is Grade C and higher grades
2. Grade D and E are Fail Grades.

Calculation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)

The Grade Point Average is calculated as follows:

$$GPA = \frac{\sum(\text{Number. of credits x Grade Points})}{\sum(\text{Number. of credits registered})}$$

For the purpose of calculation of GPA for SGPA and CGPA only those courses(including projects) will be taken into account in which the student has been awarded Pass Grade. Here S stands for the sum of

(i) $SGPA = \dfrac{\sum C_i P_i}{\sum C_i}$

Where

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C_i = Number of credits earned in the ith course of a semester for which SGPA is to be calculated.

p_i = Grade point earned in i^{th} course

I = 1, 2, 3 .... n, represent the number of courses in which a student is registered in the concerned semester.)

(ii) $$CGPA = \frac{\sum C_i P_i}{\sum C_i}$$

Where

C_j = Number of credits earned in the Jth course upto the semester for which CGPA is to be calculated.

P_j = Grade point earned in J^{th} course.

Any grade lower than the Pass Grade in a course shall not be taken into account

J = 1, 2, 3 .... n, represent the number of courses in which a student was registered and obtained a grade not lower than C up to the semester for which CGPA is to be calculated.

10. Division:

The successful candidates shall be classified in three divisions as under:

(i) Those who obtained 60% or more of the aggregate number of marks in the entire subject in all semesters mention total semesters of that course. taken together shall be placed in first division.

(ii) Those who obtain less than 60% but not less than 50% of the aggregate number of marks in all subjects in all semesters taken together, shall be placed in the second division.

(iii) Those who obtain below 50% and not less than 40% of the aggregate number of marks in all subjects in all semesters taken together shall be placed in the third Division.

11. Promotion:

11.1   A candidate shall be eligible for promotion to 5th Semester:

11.1.1 If she has been on the rolls of the institution during the Semester preceding the respective Semester examination and

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11.1.2 If she has attended not less than 75% of the lectures in the concerned semester

11.1.3 If she has passed at least 50% of the total papers of 1st, 2nd, 3rd and 4th semester taken together.

11.2 A candidate shall have to pass all the six Semesters examination within five years for B.Sc.

12. Attendance:

12.1 No candidate shall be considered to have pursued a regular course of the study unless she has attended not less than 75% of the lectures in each paper/seminar/ tutorials etc. This requirement shall be fulfilled separately for each course of study. A deficiency upto 10% may be condoned by the Principal of the College. In some special cases the Hon'ble Vice- Chancellor may condone a further 5%.

12.2 If a student is absent from the College for more than four weeks without notifying to the Principal, her name will be removed from the College rolls with information to the Academic Branch.

12.3 In case the student's name is struck off the rolls due to non payment of fees and is readmitted later, her attendance shall not be counted for that period.

13. Scholarship:

A candidate while appearing in the re-appear examination shall not be eligible for a scholarship, a prize or a medal.

14. Declaration of Results:

Six weeks after the termination of the examination or as soon thereafter as is possible, the controller of examination shall declare the result. After successful competition of the course, the candidate shall award did a degree mentioning the division.

15. Additional Subject(s) :-

A candidate:

(i) Who has passed B.Sc. (Bachelor of Science) examination of this university may appear in a subsequent (_B.Sc. (Bachelor of Science)----) examination in additional subject(s) prescribed for the examination except the subject(s) in which she has already passed the examination.

(ii) A candidate appearing under this clause shall sit for 1st, 3rd, 5th Semester simultaneously in the examination for odd semesters and for 2nd, 4th, 6th

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semester simultaneously in the examination for even semesters. Similarly if a student under this clause gets re-appear it will be governed by the existing rules of the re-appear for regular students.

(iii) The candidate will submit one examination form for odd semesters' exams mentioning all the semesters she desires to take examination. Similarly she will submit another form for even semesters' exams mentioning all the semesters she desires to take examination. The fee as prescribed shall be charged.

(iv) If the candidate is appearing in the subject(s) involving practical, she shall study in the college/department of this University, where she is admitted to and submit a certificate from the HOD/Principal for having completed the prescribed course of lectures, 20 days before the commencement of examination.

(v) The minimum marks required to pass is each subject shall be as per the regular course. The marks obtained in the additional subject(s) shall not be counted towards division of the candidates. They shall be issued separate DMC mentioning additional subject:-

16. Improvement Case:

(i) A person who has qualified for the award of B.Sc.Computer Science from this university may be allowed to re-appear as an ex-student in at the most two subject(s) in which she appeared earlier, with a view to improve her previous performance. The candidate shall be awarded only two consecutive chances alongwith the re-appear students in the subject(s) concern immediately after her passing for her degree.

(ii) No candidate shall be eligible for improvement after one year of passing the examination for the degree course.

(iii) The Candidate will have to deposit fee and form for each examination separately.

(iv) The higher score in the subject(s) in which she re-appears for improvement will be taken into account towards the final result and the marks already obtained by the candidate in the subjects in which she has not opted to improve her result shall be carried forward. The candidate shall be awarded a new DMC clearly mentioning 'Improvement case' subject(s) with improved marks, only and the new grand total.

(v) In case the candidate does not improve her result, it shall be declared as 'Previous Result Stands'.

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17. General Guidelines:

17.1   Where this document is silent about any rule, the University policy / regulations as framed from time to time will be applicable.

17.2   Eligibility Criteria, Fees Structure, Academic Calendar, Examination Schedule, Sports Calendar and Cultural Calendar for the academic year shall be given in the University Prospectus.

17.3   A student is deemed to have completed the requirements for degree and is eligible for the award of degree if:

    i)   She has satisfied all the academic requirements as per the regulations and

    ii)   She has paid all fees due from her and

    iii)   There is no case of indiscipline pending against her.

    iv)   Satisfied the minimum academic and residence requirements.

    v)   Satisfactorily completed the requirements for the short duration across curricular paper , industry internship and NCC/NSS as may be prescribed by the Academic Council.

    vi)   A student who has completed all the graduation requirement listed above shall be eligible for award of degree /certificate . However under extremely exceptional circumstances , where gross violation of the graduation requirements is detected at any later stage , the Academic Council may withdraw the degree already awarded.

17.4   The gap of one/two Semesters missed by the student(s), as the case may be, will be counted towards the total duration of the programme permissible under the regulations.

17.5   Absence of registered students from classes during a semester shall be discouraged. However, for bonafide reasons such as illness, maternity a student may be granted leave of absence as per provision of leave rules for students framed by the Academic Council.

17.6   All academic problems of the students other than those affecting the College rules and regulations framed from time to time may be looked into by the committee constituted by Dean of Academic Affairs.

B.P.S. Mahila Vishwavidyalaya , Khanpur Kalan
B.P.S.M. Girls College
COURSE CURRICULM & SCHEME OF EXAMINATIONS (w.e.f. 2012-13).
B.Sc. (Computer Science) 1st Semester

S. No.	Code	Course Title	Hours per Week			Total Credits	Max Marks		
							Internal Marks	External Marks	Total Marks
			L	T	P				
		Theory Courses :							
1	CSC 101	Computer Fundamental	3			3	38	38	76
2	CSC 103	Computer System Architecture	3			3	37	37	74
3	MAT 101	Algebra	4.5			4.5	34	34	68
4	MAT 103	Calculus	4.5			4.5	34	34	68
5	MAT 105	Analytic Geometry of Dimensions 2 & 3	4.5			4.5	32	32	64
6	PHY 101	Classical Mechanics and Theory of Reactivity	3			3	37.5	37.5	75
7	PHY 103	Electricity,Magnetism and Electromagnitic Theory	3			3	37.5	37.5	75
8	ENG 101	English	6			6	50	50	100
		Practical/Lab Courses:							
1	CSC 105	Computer Practical			4	2	25	25	50
2	PHY 105	Physics Practical			4	2	25	25	50
	Total Contact Hours/Credits		31.5		8	35.5	350	350	700

Note:-

Passing marks are 40% in internal and external papers separately.

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COURSE CURRICULUM & SCHEME OF EXAMINATIONS (w.e.f. 2012-13).
B.Sc. (Computer Science) 2nd Semester

S. No.	Code	Course Title	Hours per Week			Total Credits	Max Marks		
			L	T	P		Internal Marks	External Marks	Total Marks
		Theory Courses :							
1	CSC 102	Programming in C	3			3	38	38	76
2	CSC 104	Computer Networking	3			3	37	37	74
3	PHY 102	Properties of Matter and Kinetic theory of Gases	3			3	37.5	37.5	75
4	PHY 104	Semiconductor Devices	3			3	37.5	37.5	75
5	MAT 102	Number Theory and Trigonometry	4.5			4.5	34	34	68
6	MAT 104	Ordinary Differential Equations	4.5			4.5	34	32	68
7	MAT 106	Vector Calculus	4.5			4.5	32	32	64
8	ENG 102	English	6			6	50	50	100
		Practical/Lab Courses							
1	CSC 108	Computer Practical			4	2	25	25	50
2	PHY 106	Physics Practical			4	2	25	25	50
	Total Contact Hours/Credits		33.5		8	37.5	350	350	700

Note:-

Passing marks are 40% in internal and external papers separately.

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COURSE CURRICULUM & SCHEME OF EXAMINATIONS (w.e.f. 2012-13).
B.Sc. (Computer Science) 3rd Semester

S. No.	Code	Course Title	Hours per Week L	T	P	Total Credits	Max Marks Internal Marks	External Marks	Total Marks
		Theory Courses :							
1	CSC 201	Data & File Structure using C	3			3	38	38	76
2	CSC 203	Object Oriented Analysis & Design	3			3	37	37	74
3	PHY 201	Computer Programming and Thermodynamics	3			3	37.5	37.5	75
4	PHY 203	Wave and Optics-1	3			3	37.5	37.5	75
5	MAT 201	Advanced Calculus	4.5			4.5	30	30	60
6	MAT 203	Partial Differential Equations	4.5			4.5	30	30	60
7	MAT 205	Programming in C and Numerical Methods	3			3	30	30	60
8	HIN /SKT 201	Hindi/Sanskrit	4			4	25	25	50
		Practical/Lab Courses:							
1	CSC 205	Computer Practical			4	2	25	25	50
2	PHY 205	Physics Practical			4	2	25	25	50
3	MAT 207	Maths Practical			2	1	10	10	20
	Total Contact Hours/Credits		28		10	33	325	325	650

Note:-

Passing marks are 40% in internal and external papers separately.

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COURSE CURRICULUM & SCSCME OF EXAMINATIONS (w.e.f. 2012-13).
B.Sc. (Computer Science) 4th Semester

S. No.	Code	Course Title	Hours per Week			Total Credits	Max Marks		
							Internal Marks	External Marks	Total Marks
			L	T	P				
		Theory Courses :							
1	CSC 202	Advanced Data Structure	3			3	38	38	76
2	CSC 204	Object Oriented Programming with C++	3			3	37	37	74
3	PHY 202	Statistical Physics	3			3	37.5	37.5	75
4	PHY 204	Wave and Optics-2	3			3	37.5	37.5	75
5	MAT 202	Sequences and Series	4.5			4.5	30	30	60
6	MAT 204	Special Functions and Integral Transforms	4.5			4.5	30	30	60
7	MAT 206	NumericalAnalysis and Statistics	3			3	30	30	60
8	HIN /SKT 202	Hindi/Sanskrit	4			4	25	25	50
		Practical/Lab Courses:							
1	CSC 206	Computer Practical			4	2	25	25	50
2	PHY 206	Physics Practical			4	2	25	25	50
3	MAT 208	Maths Practical			2	1	10	10	20
	Total Contact Hours/Credits		28		10	33	325	325	650

Note:-

Passing marks are 40% in internal and external papers separately.

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COURSE CURRICULUM & SCSCME OF EXAMINATIONS (w.e.f. 2012-13).
B.Sc. (Computer Science) 5th Semester

S. No.	Code	Course Title	Hours per Week L	T	P	Total Credits	Max Marks Internal Marks	External Marks	Total Marks
		Theory Courses :							
1	CSC 301	Data Based Management System	3			3	38	38	76
2	CSC 303	Operating System	3			3	37	37	74
3	PHY 301	Solid state Physics and Nanophysics	3			3	37.5	37.5	75
4	PHY 303	Quantum and Laser PhysicsS	3			3	37.5	37.5	75
5	MAT 301	Real Analysis	4.5			4.5	34	34	68
6	MAT 303	Groups and Rings	4.5			4.5	34	34	68
7	MAT 305	Mechanics	4.5			4.5	32	32	64
		Practical/Lab Courses:							
1	CSC 305	Computer Practical			4	2	25	25	50
2	PHY 305	Physics Practical			4	2	25	25	50
	Total Contact Hours/Credits		25.5		8	29.5	300	300	600

Note:-
   Passing marks are 40% in internal and external papers separately.

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COURSE CURRICULUM & SCSCME OF EXAMINATIONS (w.e.f. 2012-13).
B.Sc. (Computer Science) 6th Semester

S. No.	Code	Course Title	Hours per Week L	T	P	Total Credits	Max Marks Internal Marks	External Marks	Total Marks
		Theory Courses :							
1	CSC 302	Visual Basic	3			3	38	38	76
2	CSC 304	Software Engineering	3			3	37	37	74
3	PHY 302	Nuclear Physics	3			3	37.5	37.5	75
4	PHY 304	Atomic and Molecular Spectroscopy	3			3	37.5	37.5	75
5	MAT 302	Real and Complex Analysis	4.5			4.5	34	34	68
6	MAT 304	Linear Algebra	4.5			4.5	34	34	68
7	MAT 306	Discrete Mathematics	4.5			4.5	32	32	64
		Practical/Lab Courses:							
1	CSC 306	Computer Practical			4	2	25	25	50
2	PHY 306	Physics Practical			4	2	25	25	50
	Total Contact Hours/Credits		25.5		8	29.5	300	300	600

Note:-
Passing marks are 40% in internal and external papers separately.

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B.P.S.M. Girls College
COURSE CURRICULUM & SCHEME OF EXAMINATIONS (w.e.f. 2012-13).
B.Sc. (Computer Science)

Consolidated Details

Sr.No.	Semester	Total Credits	Total Marks
1	1st	35.5	700
2	2nd	37.5	700
3	3rd	33	650
4	4th	33	650
5	5th	29.5	600
6	6th	29.5	600
Total	6	198	3900

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Examination Scheme
Bachelor of Science (Pass Course)

Environmental Science will be a compulsory subject for B.SC. 1. All the students will have to qualify the same by getting at least passing marks.

SUBJECT	MARKS	CONTACT HOURS	CREDITS
Compulsory Subjects			
English	100	6	6
Hindi	100	6	5
EVS (For B A 1 only)	50	2	--
The students can choose any two subjects from the following :			
Hindi(Elective)	100	6	6
Geography	100	6	6
History	100	6	6
Economics	100	6	6
Home Sc.	100	6	6
Sanskrit (Elective)	100	6+2	7
Sanskrit (Core)	100	4+2	5
Hindi(Elective)	100	6 +2	7
Hindi (Core)	100	4+2	5
Mathematics (For B A 1 & 11)	100	14	14
(For B A 111)	100	12+2	13
Music	100	1+6	4
Political Sc.	100	6	6

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