

**B.P.S. Mahila Vishwavidyalaya, Khanpur Kalan**  
**School of Engineering & Sciences**  
**Bachelor of Technology (B.Tech.)**  
**(w.e.f. Session 2012-13)**

**1. Definitions:**

- 1.1. **Programme** stands for Bachelor of Technology (B.Tech.).
- 1.2. **Credit** is a weightage assigned to a paper in terms of contact hours.
- 1.3. **Grade** stands for letter grade assigned to a students on the basis of examination of a paper on 10<sup>th</sup> point scale.
- 1.4. **Grade points** stand for numerical equivalents of letter grade.

**2. Duration:**

The normal duration of the programme is four years and maximum duration of B.Tech. programme offered by the School of Engineering and Sciences in six years (n+2). 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. However student will be admitted directly on the basis of three years diploma directly in the 2<sup>nd</sup> year (3<sup>rd</sup> Semester) under the Lateral Entry Entrance Test (LEET) scheme.

**3. Admission:**

- 3.1. **Eligibility:** A candidate shall be eligible for admission to Bachelor of Technology if she has passed the senior secondary examination (10+2) with 50% marks in aggregate of a recognized Board of Secondary Education or an examination recognized by the University as its equivalent or as prescribed by Haryana State Counseling Society. In case of SC/ST/person with disabilities the candidate is given 5% relaxation in qualifying examination. Admission to all B.Tech. programmes are to be made through Haryana State Counseling Society through online off campus counseling, based on merit of All Indian Engineering Entrance Examination (AIEEE) or any criteria adopted by University. The candidates having supplementary/compartement/reappear in the qualifying examination shall not be allowed for admission to any programme.
- 3.2 No candidate who is in employment (full time/part time/honorary service) shall be eligible to take admission in B.Tech. programme without taking leave from her institute /office from the date of admission to the termination of her examination including other essential requirements. She has to submit an affidavit in this regard. If found violation of this rules her admission shall stand cancelled.
- 3.3 **Procedure:** Admission procedure and policy shall be laid down from time to time by the admission committee of the University. The admission committee shall be constituted by Dean of Faculty and shall comprise of senior most faculty of each department and nominee of Chairperson and the Dean. The committee will look after the admission process.
  - 3.3.1 At the time of counseling all original certificates will be verified as per the procedure of University.
  - 3.3.2 The registration of the students is governed by the rules and regulations as laid down by the university from time to time.

#### **4. Fees:**

The programme fee shall be paid by candidate as prescribed by the University from time to time.

#### **5. Teaching Methodology:**

Teaching methods shall include class room teaching, assignments, viva-voce, lab work, seminar, project work, summer training, field work, presentation, group discussion etc

#### **6. Credit Weight:**

Each course has a certain number of credits which reflect its weightage. Credits of a course are evaluated as under:-

**6.1 Lecture:** One credit per lecture per week per semester will generally be adopted.

**6.2 Tutorial:** Half credit per tutorial hour per week per semester will be adopted.

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

**6.4 Seminar/Group Discussion/General Proficiency/ Minor Project/ Industrial Practical Training:** Each consist of three credits.

**6.5 Major Project:** Consist of four credit weightage equivalent to one theory course.

#### **7. Examination:** (Common for all to be provided by examination branch of the university.

7.1 At the end of the each semester, there shall be an examination where each candidate shall be examined in the courses 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 course 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 even & odd semester will normally be held in December/January and also in May/June on such date as provided by the University. The concerned teacher/course coordinator should ensure that 100% syllabus is covered in each subject before the semester examination.

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

semester examination. The examination branch/course coordinator shall convert the marks in to equivalent grades as per the grading procedure.

7.8 If a candidate, after attending the classes for the course 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 course 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 Chairman of the Department, the date for conduct of Major Test should not go beyond the 1<sup>st</sup> 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 proformas 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 Consolidates Results.

**8. Reappear Examinations:** A student having reappear in even/odd semester up to 6<sup>th</sup> semester may reappear in the examination with the regular students. The students having reappear in final year (7<sup>th</sup> & 8<sup>th</sup> semester) or pass out students may reappear in both even and odd semester's regular examination.

## **9. Evaluation & Grading:**

9.1 The assessment will be 50% internal and 50% external for all papers.

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

9.3 The weightage for internal evaluation shall be assigned covering following areas broadly:-

<b>Subcomponent</b>	<b>Weightage</b>
1. Two midterm class tests	60%
2. Assignments/quiz's/on spot test/seminar/presentations /minor project/case studies/industry interface	30%
3. Attendance	10%
<b>For Practical</b>	
1 Evaluation conducted in regular practical classes	50%
2. Teacher's assessment through viva-voice. home assignments, on the spot tests, short quizzes etc.	25%
3. File record of lab	15%
4. Attendance	10%

#### 9.4 Ad-hoc Grace

If there is any discrepancy/out of syllabi/printing error/untoward incident during the examination, the matter shall 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 re-conduct of the paper or uniform grace marks to all but that should not exceed 10% marks of that particular paper.

#### 9.5 Moderation of Marks

(a) Internal Examinations: If there are more than one teacher associated in any internal assessment, one of the member be made co-ordinator by the concerned HOD and he 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 Examination: 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

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

9.6 In case, the candidate 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 examination branch of the university. 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 <sup>+</sup>	10
Extraordinary	A	09
Excellent	B <sup>+</sup>	08
Very Good	B	07
Good	C <sup>+</sup>	06
Average	C	05
Poor	D	04
Very Poor	E	03

9.8 For the award of grades in a subject, all component wise evaluation shall be done in marks. The award of grades based on absolute marks (irrespective of no students) out of 100 shall be made as follows:-

<u>Marks</u>		<u>Grade</u>		<u>Marks</u>
90	≤	A <sup>-</sup>	≤	100
80	≤	A	≤	89
70	≤	B <sup>+</sup>	≤	79

60	≤	B	≤	69
50	≤	C <sup>+</sup>	≤	59
40	≤	C	≤	49
30	≤	D	≤	39
0	≤	E	≤	29

Note: Pass grade is C grade or Higher.

D and E grade indicates fail.

9.9 The minimum passing marks/grade for passing any semester Examination shall be:

9.9.1 40% in internal and external examination separately.

9.9.2 40% in each practical Examination/Viva-Voice Examination.

9.9.3 Minimum pass grade in each course is 'C' grade. Grade will be awarded after adding the marks of sessional and major test/practical examination.

9.9.4 Grade C in General Proficiency.

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

9.9.6 Before submission of the finalized award list in a prescribed formation to the concerned administrative office of the individual course co-ordinator 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.

9.9.7 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 staff members)

9.10 A candidate who fails to obtain the requisite marks/grade in any course shall be required to appear in the concerned course in the subsequent examinations.

9.11 **'D' and 'E' Grades:** The 'D' and 'E' grades denote poor and very poor performance, i.e. failing a course. A student has to repeat all compulsory (Core) courses in which she obtains either 'D' or 'E' grades, until a passing grade is obtained. If 'D' or 'E' grade is awarded to a student in major project, she will get only one more chance to repeat the project work at the end of next semester. However, if a candidate still gets D or E grade in major project, the same will not be eligible for the award of degree.

For the other (Elective) courses in which 'D' or 'E' grades have been obtained, the student may take the same course or any other course from the same category. Further, 'D' or 'E' grade secured in any course stay permanently on the grade card. The weightage of these grades is not counted in the calculation of the CGPA, however, these are counted in the calculation of the SGPA.

The candidate having D & E Grades in any Odd and Even semester's examination would be given a chance to improve the grade. On improving the D & E Grade, the improved grade will be counted towards calculation of SGPA/CGPA. The examinations for reappear in any subject(S) in the odd semester and that of in the even semester shall be held in the respective semesters along with the regular students. In addition to above,

examination for reappear in the subjects in odd semesters will also be held during the even semester examinations and vice-versa.

9.12 The performance of students will be evaluated in terms of cumulative grade point average (CGPA) which is the grade point average for all the completed semesters at any point of time.

The CGPA is calculated on the basis of all pass grades, except audit courses obtained in all completed semesters.

$$\text{CGPA} = \frac{\text{S (Earned Credits} \times \text{Grade Point) for courses with pass except audit courses Sem}}{\text{S (Earned Credits) of courses with pass grade except audit course Sem}}$$

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 one of A, B, C, D, E grade. Here S stands for the sum of

**10. Promotion:** A student will be eligible for promotion if

**5<sup>th</sup> semester:** If she has passed 50% of total papers of 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> semester taken together.

**6<sup>th</sup> semester:** If she has passed 50% of total papers of 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> semester taken together.

**7<sup>th</sup> semester:** If she has passed 50% of total papers of 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> semester taken together.

**8<sup>th</sup> semester:** If she has passed 50% of total papers of 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> semester taken together.

**For Lateral Entry**

**7<sup>th</sup> semester:** If she has passed 50% of total papers of 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> semester taken together.

**8<sup>th</sup> semester:** If she has passed 50% of total papers of 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> semester taken together.

**11. Attendance:**

10.1 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 case discussion, field trips, tutorials etc. This requirement shall be fulfilled separately for each course of study. A deficiency upto 10% may be condoned by the Chairperson of the Department on the basis of the medical ground / other justifiable reasons.

- 10.2 If a student is absent from the Department for more than four weeks without notifying to the Chairperson/course co-ordinator of Department, her name will be struck off from the department rolls with information to the academic branch.
- 10.3 In case the student name is struck off due to nonpayment of fee and is readmitted later, her attendance shall not be counted for that period.

## **12. Exit Policy:**

In case of dual degree programme of MBA (Tech.), the students may exit the programme after successful completion of four year MBA (Tech.) tenure. In this condition students will awarded with B.Tech. in electronics and communication Engineering.

## **13. General Guidelines:**

- 13.1 Where this document is silent about any rule, the University regulations from time to time will be applicable.
- 13.2 Admission, teaching schedule, preparatory holidays, examination, winter, summer vacation, shall be followed as specified in academic calendar of the university.
- 13.3 A student is deemed to have completed the requirements for degree and is eligible for the award of degree if:
  - 11.3.1 She has satisfied all the academic requirements as per the regulations; and
  - 11.3.2 She has paid all fees dues from her; and
  - 11.3.3 There is no case of indiscipline pending against her.
  - 11.3.4 Satisfy the minimum academic requirements:
  - 11.3.5 A student who has completed all the graduation requirement listed above shall be eligible for the award of degree/certificate. However under exceptional circumstance, where gross violation of the graduation requirement is detected at any later stage, the academic council may recommend to the executive council to withdraw the degree/pg diploma already awarded.
- 13.4 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.
- 13.5 Absences of registered students from class during a semester shall be discouraged. However for bonafide reasons such as illness, maternity a student may be granted leave of absence as per the provision of leave rules for student framed by the academic council.
- 13.6 All academic problems of the students other than those affecting the University rules and regulations framed from time to time may be looked into by the Dean of Academics Affairs.

# School of Engineering & Sciences

B P S Mahila Vishwavidyalaya, Khanpur Kalan (Sonapat)

(State University Established Under the Legislative Act No 31/2006)

## Course Curriculum & Scheme of Examination

For

### B.Tech. Computer Science & Engineering

(w.e.f. session 2012-13)

The Bachelor of Technology in Computer Science & Engineering is a four year full time programme. The course structure of the programme is given under:-

#### Semester – 1

S. No	Code	Course Title	Hrs/Week			Total Credit	Marks		Total Marks
			L	T	P		Internal Marks	External Marks	
<b>Theory</b>									
1.	EEL-100	Fundamentals of Electrical Engineering	3	1	-	3.5	50	50	100
2.	MAL-101	Mathematics-I	3	1	-	3.5	50	50	100
3.	CHL-100	Engineering Chemistry	3	1	-	3.5	50	50	100
4.	CSL-110	Information Science & Society	3	-	-	3	50	50	100
5.	MEL-100	Manufacturing Process	3	1	-	3.5	50	50	100
6.	FFA/FRA/ FGA-100	Foreign Language (Non-Credit)	3	-	-	-	50	50	100
<b>Lab</b>									
7.	MEP-110	Engineering Graphic and Drawing	1	-	4	3	50	50	100
8.	CSP-100	Information Processing and Internet Lab	-	-	2	1	25	25	50
9.	EEL-100	Electrical Engineering Lab	-	-	2	1	25	25	50
10	CHP-100	Chemistry Lab	-	-	2	1	25	25	50
<b>Total</b>			<b>19</b>	<b>4</b>	<b>10</b>	<b>23</b>	<b>375</b>	<b>375</b>	<b>750</b>

Total contact Hours =33

Total Credits=23

Students will be allowed to use the scientific calculator only. however sharing of calculator not allowed.

Note: Minimum passing marks for each paper is 40%



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#### B.Tech. Computer Science & Engineering

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#### Semester – 2

S. No	Code	Course Title	Hrs/Week			Total Credit	Marks		Total Marks
			L	T	P		Internal Marks	External Marks	
<b>Theory</b>									
1.	ECL-100	Basics Electronics Engineering	3	1	-	3.5	50	50	100
2.	MAL-102	Mathematics-II	3	1	-	3.5	50	50	100
3.	EVL-100	Environmental Studies*	3	-	-	-	50	50	100
4.	CSL-100	Introduction to Computer & Programming	3	1	-	3.5	50	50	100
5.	HUL-100	Communication Skill in English	3	-	-	3	50	50	100
6.	PHL-100	Engineering Physics	3	1	-	3.5	50	50	100
<b>Lab</b>									
7.	ECP-100	Basic Electronics Lab	-	-	2	1	25	25	50
8.	CSP-100	Computer Programming Lab	-	-	2	1	25	25	50
9.	MEP-100	Mechanical Workshop	-	-	2	1	25	25	50
10.	PHP-100	Physics Lab	-	-	2	1	25	25	50
11.	HUP-100	English Language Lab	-	-	2	1	25	25	50
<b>Total</b>			<b>18</b>	<b>4</b>	<b>10</b>	<b>22</b>	<b>375</b>	<b>375</b>	<b>750</b>

\*Qualifying Exam and Marks will not be considered in degree awards.

**Total contact Hours =32**

**Total Credits=22**

**Note:** 1. Students will be allowed to use the scientific calculator only. however sharing of calculator not allowed.

2. Minimum passing marks for each paper is 40%

- (1) Each subject/course in Computer Science and Engineering of 3/3.5/4 Credit is of 100 marks having 50 internal and 50 external marks.
- (2) Each lab in scheme of Computer Science and Engineering of 2 Credit is of 50 marks having 25 internal and 25 external marks.
- (3) Seminar. Industrial Practical Training. Minor project. General Proficiency. Major Project each is of 100 Marks.

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#### B.Tech. Computer Science & Engineering

(w.e.f. 2012-13)

#### Semester-3

S. No	Code	Course Title	Hrs/Week			Total Credit	Marks		Total Marks
			L	T	P		Internal Marks	External Marks	
<b>Theory</b>									
1	CSL-201	Computer Organization & Architecture	3	1	-	3.5	50	50	100
2	CSL-203	Discrete Structure	3	1	-	3.5	50	50	100
3	CSL-205	Data Structures & Algorithms	3	1	-	3.5	50	50	100
4	ECL-205	Digital Circuits & System	3	-	-	3	50	50	100
5	CSL-207	Computer Hardware Technologies	3	1	-	3.5	50	50	100
6	HUL-207	Fundamentals of Management	3	-	-	3	50	50	100
<b>Lab</b>									
7	CSP-221	Data Structures & Algorithms Lab	-	-	2	1	25	25	50
8	ECP-221	Digital Electronics Lab	-	-	2	1	25	25	50
9	CSP-223	Computer Hardware Lab	-	-	2	1	25	25	50
10	MEP-200	Computer Aided Design LAB	-	-	2	1	25	25	50
<b>Total</b>			<b>18</b>	<b>04</b>	<b>08</b>	<b>24</b>	<b>400</b>	<b>400</b>	<b>800</b>

Total Contact Hours =30

Total Credit= 24

Note: Minimum passing marks for each paper is 40%

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#### B.Tech. Computer Science & Engineering

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#### Semester-4

S. No	Code	Course Title	Hrs/Week			Total Credit	Marks		Total Marks
			L	T	P		Internal Marks	External Marks	
<b>Theory</b>									
1	CSL-202	Principles of Operating Systems	3	1	-	3.5	50	50	100
2	CSL-204	Object Oriented Programming using C++	3	1	-	3.5	50	50	100
3	ECL-208	Communication System	3	1	-	3.5	50	50	100
4	CSL-208	Data Base Management Systems	3	1	-	3.5	50	50	100
5	CSL-210	Automata Theory	3	1	-	3.5	50	50	100
6	CSL-212	Principles of Programming Languages	3	1	-	3.5	50	50	100
<b>Lab</b>									
7	CSP-220	Operating System Lab	-	-	2	1	25	25	50
8	CSP-222	C++ Programming Lab	-	-	2	1	25	25	50
9	CSP-224	DBMS Lab	-	-	2	1	25	25	50
10	MEP-223	Programming with MAT LAB	-	-	2	1	25	25	50
<b>Total</b>			<b>18</b>	<b>06</b>	<b>08</b>	<b>25</b>	<b>400</b>	<b>400</b>	<b>800</b>

Total Contact Hours =32

Total Credit= 25

**NOTE:** 4-6 weeks training will be held after fourth semester. However, Viva-Voce will be conducted in the fifth semester

**Note:** Minimum passing marks for each paper is 40%

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#### Semester-5

S. No	Code	Course Title	Hrs/Week			Total Credit	Marks		Total Marks
			L	T	P		Internal Marks	External Marks	
<b>Theory</b>									
1	CSL-301	Principles of Software Engineering	3	1	-	3.5	50	50	100
2	CSL-303	Computer Networks	3	1	-	3.5	50	50	100
3	CSL-305	Security of Information System	3	1	-	3.5	50	50	100
4	CSL-307	Computer Graphics	3	1	-	3.5	50	50	100
5	ECL-305	Microprocessor & Interfacing	3	-	-	3	50	50	100
6	HUL-209	Economics	3	-	-	3	50	50	100
<b>Lab</b>									
7	CSP-321	Computer Graphics Lab	-	-	2	1	25	25	50
8	CSP-323	Software Engineering Lab	-	-	2	1	25	25	50
8	ECP-325	Microprocessor & Interfacing Lab	-	-	2	1	25	25	50
9	IPT-325	Industrial Practical Training-I	-	-	-	3	-	100	100
<b>Total</b>			<b>18</b>	<b>04</b>	<b>06</b>	<b>26</b>	<b>375</b>	<b>475</b>	<b>850</b>

**Total Contact Hours =28**

**Total Credit= 26**

- Note:**
1. Industrial Practical Training-I was conducted after fourth semester. However, Viva-Voce for evaluation of Practical Training will be conducted in this semester.
  2. Minimum passing marks for each paper is 40%

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#### B.Tech. Computer Science & Engineering

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#### Semester-6

S. No	Code	Course Title	Hrs/Week			Total Credit	Marks		Total Marks
			L	T	P		Internal Marks	External Marks	
<b>Theory</b>									
1 ✓	CSL-302	Distributed Operating System	3	1	-	3.5	50 ✓	50	100
2 ✓	CSL-304	Intelligent Systems	3	1	-	3.5	50 ✓	50	100
3 ✓	ECL-308	Digital System Design	3	1	-	3.5	50 ✓	50	100
4 ✓	CSL-306	Analysis and Design of Algorithms	3	1	-	3.5	50 ✓	50	100
5 ✓	CSL-308	Multimedia Technologies	3	1	-	3.5	50 ✓	50	100
6 ✓	CSL-310	Visual Programming	3	1	-	3.5	50 ✓	50	100
<b>Lab</b>									
7 ✓	CSP-320	Intelligent Systems Lab	-	-	2	1	25 ✓	25 ✓	50
8 ✓	ECP-326	Digital System Design Lab	-	-	2	1	25 ✓	25 ✓	50
9 ✓	CSP-322	Visual Programming Lab	-	-	2	1	25 ✓	25 ✓	50
10	CSP-324	Multimedia Lab	-	-	2	1	25 ✓	25 ✓	50
9	GPF-326	General Proficiency	-	-	-	3	-	100	100
<b>Total</b>			<b>18</b>	<b>06</b>	<b>08</b>	<b>28</b>	<b>400</b>	<b>500</b>	<b>900</b>

**Total Contact Hours =32**

**Total Credit= 28**

- NOTE:** 1. 4-6 weeks industrial practical training –II training will be held after sixth semester. However, Viva- Voce will be conducted in the seventh semester.  
2. Minimum passing marks for each paper is 40%.

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(w.e.f. 2012-13)

**Semester-7**

S. No	Code	Course Title	Hrs/Week			Total Credit	Marks		Total Marks
			L	T	P		Internal Marks	External Marks	
<b>Theory</b>									
1	CSL-401	Advanced Computer Architecture	3	-	-	3	50	50	100
2	CSL-403	Neural Networks	3	1	-	3.5	50	50	100
3	CSL-405	Compiler Design	3	1	-	3.5	50	50	100
4		Open Elective-1	3	-	-	3	50	50	100
5		Departmental Elective-1	3	-	-	3	50	50	100
<b>Lab</b>									
6	CSP-421	Minor Project	-	-	3	3	50	50	100
7	CSP-423	Network Programming & Administration Lab	-	-	2	1	25	25	50
8	CSP-425	Compiler Design Lab	-	-	2	1	25	25	50
9	IPT-427	Industrial Practical Training –II	-	-	-	3	-	100	100
10	CSP-429	Seminar	-	-	3	3	100	-	100
<b>Total</b>			<b>15</b>	<b>02</b>	<b>10</b>	<b>27</b>	<b>450</b>	<b>450</b>	<b>900</b>

**Total Contact Hours =27**

**Total Credit= 27**

**Note:** Project load will be treated as 2 hours for project co-ordinator and 1 hour for each participating teacher. Each batch (max of 3) students shall design, develop and realize minor project. Student has to submit a project report at the stipulated time. The evaluation system consists of one internal & one external examiner.

**Open Elective-1**

1. CSL-409 Mobile Computing
2. CSL-411 System Simulation
3. CSL-413 Multiservice Networks
4. CSL-407 Network Programming & Administration

**Departmental Elective-1**

1. CSL-415 E-Commerce & ERP
2. ECL-320 VLSI Design
3. CSL-419 Advanced Database Management Systems
4. CSL-417 Software Project Management

**Note:** 1. Practical training was conducted after sixth semester. However, Viva-Voce for evaluation of Practical Training will be conducted in this semester.  
2. Minimum passing marks for each paper is 40%

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**Semester-8**

S. No	Code	Course Title	Hrs/Week			Total Credit	Marks		Total Marks
			L	T	P		Internal Marks	External Marks	
<b>Theory</b>									
1	CSL-402	Advanced Computer Networks	3	1	-	3.5	50	50	100
2	CSL-404	Java Programming and Website Design	3	1	-	3.5	50	50	100
3		Open Elective-2	3	-	-	3	50	50	100
4		Departmental Elective-2	3	-	-	3	50	50	100
<b>Lab</b>									
5	CSP -420	Major Project	-	-	4	4	50	50	100
6	CSP- 422	Seminar	-	-	3	3	100	-	50
7	CSP -424	Java Programming Lab	-	-	2	1	25	25	50
8	CSP-426	Advanced Computer Networks Lab	-	-	2	1	25	25	50
9	GPF-426	General Proficiency	-	-	-	3	-	100	100
<b>Total</b>			<b>12</b>	<b>02</b>	<b>11</b>	<b>25</b>	<b>350</b>	<b>400</b>	<b>750</b>

**Total Contact Hours =25**

**Total Credit= 25**

Note: Project load will be treated as 2 hours for the project co-coordinator and 1 hour for each participating teacher. Attendance is compulsory for each student. Every student have to go for literature survey and present one seminar on literature survey, one on progress and final on complete work. Respective guide have to sit in every presentation.

- Non University Examination to be conducted by the department by a committee constituted by Dean and chairperson of the department.
- Minimum passing marks for each paper is 40%

**Open Elective-2**

1. ECL-414 Digital Image Processing
2. CSL-412 Management Information System
3. CSL-414 System Programming & System Administration
4. EVL-424 Pollution and Control

**Departmental Elective-2**

1. CSL-416 Data Warehouse & Data mining
2. CSL-418 Software Testing
3. CSL-420 Object Oriented System Design
4. CSL-408 Fuzzy Logic
5. CSL-406 Network Technology

**Grand Total of Credits for the B.Tech Computer Science & Engineering,  
BPSMV Khanpur Kalan**

S.No	Semester	Credits/Marks
1.	I	23/750
2.	II	22/750
3.	III	24/800
4.	IV	25/800
5.	V	26/850
6.	VI	28/800
7.	VII	27/900
8.	VIII	25/750
Total		200/6500
All end examinations (Theory & Practical) are of three hours duration		