Regulations for Choice Based Credit System B.Sc. (Honours) under the Framework of Honours School System (Semester System)
Regulations for Choice Based Credit System B.Sc. (Honours) under the Framework of Honours School System (Semester System) Implemented from the Academic Session 2016-17

1. Panjab University will award the degree of Bachelor of Science (Honours) under **under the Framework of Honours School System** in the subjects of Botany, Microbiology, Zoology, Anthropology, Chemistry, Geology, Physics, Physics (Specialization in Electronics), Biochemistry, Biotechnology, Biophysics, Mathematics and any other subject as decided by the Syndicate from time to time.

2. The duration of the course shall be three academic years comprising six semesters. The examinations of various semesters will be held on such dates as may be fixed by the Syndicate from time to time.

3. The B.Sc. (Honours) programme of study shall consist of **156 credits** (Annexure-I for template). Further details of teaching hours, marks and credits allocated to each course (Theory and Practicals) are given in the respective Syllabi.

The structure of the Semester of B.Sc. Course w.e.f. admission of 2017 shall be as under:-

**A. Core Courses** : A course, which should compulsorily be studied by a candidate as a core requirement is termed as a Core course. There will be 14 core courses. Each core course will thus be of 6 credits.
Total credits of core courses for B.Sc. (Hons.) will thus be $14 \times 6 = 84$

**B. Discipline Specific Elective (DSE) Courses**: Elective courses offered under the main discipline/subject of study is referred to as Discipline Specific Elective.
There will be total 4 courses ($5^{th}$ and $6^{th}$ semester) of 6 credits each = 24 credits.

**C. Generic Elective (GE) Courses**: Generic Elective courses offered under the unrelated discipline/subject to seek exposure beyond discipline of choice is referred to as generic Elective.
There will be total 6 courses (I-IV semester) of 6 credits each = 36 credits.

**D. Ability Enhancement Courses (AEC)**: The Ability Enhancement Courses (AEC) are of two kinds: Ability Enhancement Compulsory Courses (AECC) and Skill Enhancement Courses (SEC). “AECC” are the courses based upon the content that leads to Knowledge enhancement; SEC courses are value-based and/or skill-based are aimed at providing hands-on-training, competencies, skills etc.

(i) **English** : 2 credits 50 marks each semester I or II
(ii) **Environmental Science** : 2 credits 50 marks each semester I or II
(to be allotted by the department to the students distributed in the First semester and the Second semester)

(ii) Skill Enhancement Courses (SEC):
These courses may be chosen from a pool of courses designed to provide value-based and/or skill-based knowledge and should contain both theory and lab/hands on/training/field work.

There will be 2 courses of 4 credits each, i.e., total credits $2 \times 4 = 8$

Obtaining 24 credits in the concerned Core courses and discipline Specific Elective courses (subjects) shall be deemed sufficient to satisfy a requirement for admission to the M.Sc course in that subject.
Obtaining 24 credits in a Generic Elective Course (subject) in the full B. Sc (Hons.) Course shall also be deemed sufficient to satisfy a requirement for admission to the M.Sc course in that subject.
4. **Admission to B. Sc (Hons.) Ist year under the Framework of Honours School System**

A person who has passed +2 examination under 10+2+3 system of education of recognized University/Board/Council or any other examination recognized by the university as equivalent.

The following are the eligibility criterion for joining the B. Sc (Hons.) Courses in various subjects

<table>
<thead>
<tr>
<th>Course</th>
<th>Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.Sc. (Honours) Botany</td>
<td>Should have passed 10+2 examination with at least 50% marks (45% marks in case of SC/ST) with Physics, Chemistry, Biology and English</td>
</tr>
<tr>
<td>B.Sc. (Honours) Zoology</td>
<td></td>
</tr>
<tr>
<td>B.Sc. (Honours) Anthropology</td>
<td>Should have passed 10+2 examination with at least 50% marks (45% marks in case of SC/ST) with English, Physics, Chemistry, Mathematics/Biology</td>
</tr>
<tr>
<td>B.Sc. (Honours) Chemistry</td>
<td></td>
</tr>
<tr>
<td>B.Sc. (Honours) Geology</td>
<td></td>
</tr>
<tr>
<td>B.Sc. (Honours) Physics</td>
<td>Should have passed 10+2 examination with at least 50% marks (45% marks in case of SC/ST) with English, Physics, Chemistry, Mathematics/Biology</td>
</tr>
<tr>
<td>B.Sc. (Honours) Physics (Specialization in Electronics)</td>
<td></td>
</tr>
<tr>
<td>B.Sc. (Honours) Biochemistry</td>
<td>Should have passed 10+2 examination with at least 50% marks (45% marks in case of SC/ST) with English, Physics, Chemistry, Mathematics/Biology/Biotechnology</td>
</tr>
<tr>
<td>B.Sc. (Honours) Microbiology</td>
<td></td>
</tr>
<tr>
<td>B.Sc. (Honours) Biophysics</td>
<td>Should have passed 10+2 examination with at least 50% marks (45% marks in case of SC/ST) with English, Physics, Chemistry, Mathematics/Biology/Computer Science</td>
</tr>
<tr>
<td>B.Sc. (Honours) Mathematics</td>
<td>Should have passed 10+2 examination with at least 50% marks (45% marks in case of SC/ST) with Mathematics as one of the subjects.</td>
</tr>
<tr>
<td>B.Sc. (Honours) Biotechnology</td>
<td>Should have passed 10+2 examination with at least 50% marks (45% marks in case of SC/ST) with English, Physics, Chemistry, Mathematics/Biology/ Biotechnology/Computer Science</td>
</tr>
</tbody>
</table>

Admission of the eligible students shall be based on the criteria laid down by the Syndicate.

5. Every student admitted to the B.Sc. (Honours) shall be on the rolls of the University Department, duly approved by the appropriate body of the University for such teaching in the subject concerned, and pay such fees to the University as prescribed by the Syndicate from time to time. The Dean of University Instruction may exempt any student from payment of
6. A Board of Control shall be constituted in January every year as per University Regulations mentioned in Chapter VII (B), P.U. Calendar Volume I. Subject to the approval of the Dean of University Instruction, the Board of Control shall be the authority to admit students and to remove students from the B.Sc. (Honours) in accordance with the rules laid down by the Academic Council.

7. The syllabi and courses of reading for the B.Sc. (Honours) shall be as approved by the Senate from time to time.
   (i) The medium of instruction and examination shall be English.
   (ii) The Board of Control shall make recommendations to the Syndicate in all matters concerning the Honours course including the syllabi and the appointment of examiners.
   (iii) Recommendations concerning syllabi shall be routed through the Faculty and the Academic Council.

8. An Undergraduate Academic Programme Monitoring and Execution Committee (UGAPMEC) shall be appointed by the Board of Control for monitoring and execution of the academic programmes. The composition and functions of the UGAPMEC would be as under:
   (i) UGAPMEC would consist of 5-7 faculty members. It will have a Convener and a Secretary both to be appointed by the Board of Control. The UGAPMEC would work in close collaboration with the Department and the Chairperson.
   (ii) The term of UGAPMEC shall be two years. After the initial period of two years, 3-4 members including the Convener would retire. A new Convener and Secretary would be appointed for two years by the Board of Control. After another year, the 2 remaining older members will retire making way for 2 new members, so that both replenishment and continuity are maintained. Each member would serve a two year term.
   (iii) The UGAPMEC shall look after every aspect of the academic programme in order to ensure the smooth functioning and integrity of all aspects of the programme. It would meet preferably once a month.
   (iv) The duties of UGAPMEC will include framing of academic calendar for the year, keeping track of attendance, schedule of in-stream tests and semester examination, assignment of project supervisors to the students, tabulation of marks after careful scrutiny, computerized storage of data, regular monitoring to ensure that the University rules and regulations are followed properly and any other duty assigned by the Chairperson/Board of Control.
   (v) The mode of evaluation for the project reports will be decided by UGAPMEC and Board of Control.
(iv) All decisions taken by UGAPMEC shall be subject to approval by Board of Control.

(v) UGAPMEC shall make recommendations regarding complaints and settle disputes, if any, against paper-setting and evaluation.

8.1 The assessment of the students will be completely internal. The teachers for a particular theory course will be the paper-setter(s), the evaluator and preferably the Supervisor. However, the persons as mentioned in Rule 8, Chapter XXX ‘Conduct of Examinations’, P.U. Cal. Vol. III shall not be eligible for appointment on the supervisory staff.

8.2 The evaluation in theory papers will consist of two components:
Continuous Assessment will have weightage of 20% depending upon the total marks.
End-Semester examination worth 80% marks.

8.3 Test for continuous assessment will be conducted by the class teacher as per the pre-announced schedule and, in general, it will be after **8 weeks** of the commencement of the classes.

8.4 The end-semester examination will also be held as per the date-sheet announced by B.Sc. (Honours) Co-ordinator.

8.5 As far as possible, any change in date-sheet for the end-semester examination should be avoided. In case the change is unavoidable, then it should be done in consultation with the convener UGAPMEC.

8.6 The evaluated answer scripts would be shown to the students, according to a schedule announced by the concerned department, within 10 days of the completion of examination. Answers would be discussed and the rationale of assessment explained to the students. **After discussing the answers with the students, the teacher would finally submit the award list to the UGAPMEC Convener along with undertaking from any of the affected student if he or she does not want the grace as per University rules to pass that paper.** Answer scripts would be retained by the concerned teacher for **one year** after the declaration of the result. There would be no provision for re-evaluation.

8.7 The style of the question paper for the continuous evaluation tests should be such that more emphasis is on the problems. It may have internal choice and if the teacher likes he/she may ask objective/short answer type questions. This test should be of about 75 minutes duration.

The question-paper for the end-semester examination are mentioned in the mentioned in the prescribed syllabi.

8.8 In a Laboratory course, 20% marks (rounded to the nearest 5) would be allotted to continuous in-semester assessment, which will depend on the following:
(i) Skill of the student in performing the experiment.
(ii) Regularity and punctuality in the Practical Classes.
(iii) Written report/record of the experiments.
(iv) Viva-voce on the experiments conducted by the teacher.
(v) Seminar delivered by the student on one course/collection/field visit.

The student will be expected to complete a specific number of experiments as per the syllabus.

8.9 The end-semester examination in the laboratory course will carry the remaining rounded off (80%) marks allotted to it. The examination will be conducted by an internal and neutral examiners. This examination will have two components: (i) Viva-voce and (ii) performing experiment(s).

8.10 Examiners for Laboratory Courses shall be appointed by the Chairperson on the recommendation of the UGAPMEC/Academic Committee.

8.11 The awards for continuous assessment of the students in the Laboratory Courses will be submitted to the office separately (along with the final awards). Their record will be kept in the office in case a candidate takes this course as a reappear candidate or to improve his/her performance.

8.12 The minimum marks required to pass the examination shall be 40% in each theory/laboratory course.

9.1 Each Board of Control may decide the number and type of Generic Elective Courses (subjects) subject to the approval of Academic Council.

10.1 Every candidate of the B.Sc. (Honours) examination shall send his/her application through the Chairperson of the Department, accompanied by the following certificates:

(a) of having been on the rolls of the department preceding the examination;
(b) of having attended not less than (a) 75 per cent of full course of lectures delivered to his class in each prescribed paper and (b) 75% of the practical classes held separately for each course;
(c) of having good moral character; and
(d) of having completed the class assessment (if any) in each subject as prescribed in the syllabus.

The Chairperson on the recommendation of the Board of Control will have the authority to condone to the maximum of 10 per cent of the lectures delivered in theory and/or practical classes.

10.2 The last dates which admission forms and fees must reach the Controller of Examinations without and with late fee shall be fixed by the Syndicate from time to time.
10.3 The amount of the admission fee for each semester examination to be paid by a candidate shall be as prescribed by the Syndicate from time to time.

10.4 Examination in the theory papers/practicals shall be held at the end of each semester according to the scheme of examination approved by the Academic Council.

11. (i) The examination shall be conducted at the end of each semester in only those courses which have been offered in that semester, i.e., 1st, 3rd & 5th semesters in November/December and 2nd, 4th & 6th semesters in April/May, respectively, or as decided by the University.

(ii) A student who has failed in any of the semester courses shall be eligible to clear the same in the end semester examination or in an additional examination in July/August, respectively. The dates of the additional examination may even be fixed outside these months subject to approval by the Syndicate.

12. (i) A student who appears in an odd semester examinations or who was eligible to appear in the odd semester examinations but remains absent in any or all the papers of the said semester, shall move on to the next even semester irrespective of his /her result in the said examination.

(ii) A student shall be promoted to the semester courses successively, subject to the following conditions:

<table>
<thead>
<tr>
<th>Class</th>
<th>Credit requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>For promotion to B.Sc. (Hons.) 2nd year</td>
<td>80 % of the total credits</td>
</tr>
<tr>
<td>For promotion to B.Sc. (Hons.) 3rd year</td>
<td>B.Sc. 1st Year pass and 80 % of the total credits in B.Sc. 2nd Year</td>
</tr>
</tbody>
</table>

(iii) Students who do not fulfill the promotion criteria mentioned above shall be declared fail in the promotion examination of the academic year concerned. However, they shall have the option to retain the marks in the papers in which they want to retain.

(iv) If a student has secured an aggregate of minimum 40 % marks taking together all the papers in theory examination (including internal assessment/project, wherever applicable) and practical examination separately till the end of third year, i.e., upto the end of the VI thsemester, then she/he shall be awarded the degree in which the student has been admitted.

Each student must earn the stipulated number of credits for award of the degree within the period of **five years**.

However-

(a) If a candidate who does not clear all the courses within two years after completing the attendance requirements of the sixth semester and is declared to have failed may be allowed to re-appear as a late student in a course for the purpose to clear
the backlog. For this purpose he/she may be given not more than two consecutive chances.

(b) A candidate who clears 90% of the credits (fraction to be rounded off to the advantage of the candidate) may be given another consecutive chance to clear the backlog.

(c) If he/she fails, he/she may be given another consecutive chance by the Vice-Chancellor on the recommendation of the Board of Control.

Such a candidate will be required to appear in the backlog papers as per the current syllabus and he/she may be permitted to attend the classes. However, the internal assessment originally awarded would stay as such. The dates of entry and leaving the course shall be shown in degree.

13. The teachers involved in the evaluation of different theory/laboratory courses would submit the final awards to the dealing person in the office by a stipulated date. He/she will enter these awards in the register on the pages assigned to different students. This work will be supervised by the concerned member of the UGAPMEC.

14.1 Once the result is ready it would be displayed on the Notice Board of the department as provisional result under the signature of the Chairman.

14.2 The students should submit written representation to the convener/secretary within two days if there are any discrepancies. These will then be passed on to the Chairman for re-dressal by the concerned teacher/dealing Clerk.

14.3 Within 2 weeks of the date of the last paper held, the final result consisting of detailed marks in semester and the end-semester examinations will be sent to the Controller of Examinations. The Controller of Examinations of the University would declare the result within next 2 weeks.

15. Grading system for Choice Based Credit System (CBCS) for B.Sc (Hons.) Courses at Panjab University

Table 1. Conversion table for the percentage marks scored by a student in a subject into Letter grade and a Numerical grade point.

<table>
<thead>
<tr>
<th>Marks %</th>
<th>Letter Grade</th>
<th>Numerical Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-100</td>
<td>O (Outstanding)</td>
<td>10</td>
</tr>
<tr>
<td>76-84</td>
<td>A++ (Excellent)</td>
<td>9</td>
</tr>
<tr>
<td>68-75</td>
<td>A+ (Very Good)</td>
<td>8</td>
</tr>
<tr>
<td>60-67</td>
<td>A (Good)</td>
<td>7</td>
</tr>
<tr>
<td>55-59</td>
<td>B+ (Fair)</td>
<td>6</td>
</tr>
<tr>
<td>50-54</td>
<td>B (Above Average)</td>
<td>5.6</td>
</tr>
<tr>
<td>45-49</td>
<td>C (Average)</td>
<td>5</td>
</tr>
</tbody>
</table>
The percentage marks obtained in a subject should be rounded-off to an integer before assigning a grade.

Once the Letter grades and Numerical grade points are assigned to all subjects, the SGPA (Semester Grade Point Average) and the CGPA (Cumulative Grade point Average) can be subsequently calculated according to the UGC guidelines mentioned on page numbers 5 & 6 of the UGC document, 955132_Guidelines.pdf. It should be included in this form in the final declared result along with the grade conversion table 1. Minimum criterion in terms of Credits has to be defined for promotion to next year as well as obtaining a degree. In principle, the calculation for SGPA should be performed for all the students at the end of every semester. In case some students fail in certain examination(s), the SGPA calculations have to be recalculated after their reappear examination. For a student failing in a subject, the numerical grade point earned in the subject will be counted as zero for the calculation of SGPA and CGPA in the numerator of the assigned formulae. However, the minimum credits required for all the subjects should be considered in the denominator of the formulae.

**Methodology to estimate the SGPA and CGPA for a student:**

Suppose a student acquires the numerical grade points of u, v, w, x and y in various subjects with the pre-assigned credit points of U, V, W, X and Y, respectively, in a semester. The SGPA<sub>i</sub> of the i<sup>th</sup> semester will be estimated as,

\[
SGPA_i = \frac{(u \times U) + (v \times V) + (w \times W) + (x \times X) + (y \times Y)}{(U + V + W + X + Y)}
\]

The total credit points CP<sub>i</sub> of the i<sup>th</sup> semester will include the credit points of all the subjects in a semester irrespective of whether the student fails in any subject.

The CGPA for the entire six semester course will be estimated as, CGPA =

\[
\frac{(SGPA_1 \times CP_1) + (SGPA_2 \times CP_2) + (SGPA_3 \times CP_3) + (SGPA_4 \times CP_4) + (SGPA_5 \times CP_5) + (SGPA_6 \times CP_6)}{CP_1 + CP_2 + CP_3 + CP_4 + CP_5 + CP_6}
\]
The transcript for each semester and a consolidated transcript indicating the performance in all semesters should be issued to the students along with the table 1. The SGPA and CGPA should be rounded-off to second decimal place.

The CGPA for the final result can be eventually converted into percentage marks by the following formula,

\[
\text{Aggregate (Percentage) marks} = \left(\frac{\text{CGPA} \times 9}{10} + 3\right) 
\]

16. The candidates shall be provided with the detailed marks cards of each Semester. The degree shall indicate the division in which the candidate has passed the examination.

17.1 If a student fails to get 40% marks in a theory paper/laboratory course or has missed the end-semester examination in any papers, he/she will be given a re-appear in that course. The reappear student shall be eligible to clear the same in the end semester examination or in an additional examination in July/August, respectively. The dates of the additional examination may even be fixed outside these months subject to approval by the Syndicate.

17.2 The re-appear examination would be only for the end-semester examination and, thus, it would be only out of 80% marks.

17.3 There would be no re-appear examination along with regular end-semester examination.

17.4 The dates of entry and leaving the course shall be shown on the Character Certificate issued by the Department.

18.1 The language of the Character Certificate issued by the department should be changed to incorporate information about the date of joining and completing the B.Sc. (Honours). It may also have information about participation of the students in extra-curricular activities.

18.2 The character certificate would be signed by the Chairman when it has initial from the Secretary/Convener of UGAPMEC who will check the data from the record of the students, maintained in the register.

19.1 **Re-appearance for improvement:**

(i) A student who wants to re-appear for improvement in marks in a paper prescribed for semester I/III/V may do so only in the end-semester examinations to be held in December. A student who wants to re-appear for improvement in a paper prescribed in semester II/IV/VI may do so only in the end-examinations to be held in May.

(ii) A student may re-appear in any theory paper prescribed for a semester, on foregoing in writing her/his previous performance in the paper/s concerned.

(iii) A candidate who has cleared examinations of third academic year (Vth and VIth semesters) may reappear in any paper of V or VI semester only once, at the immediate subsequent examinations on forgoing in writing her/his previous
performance in the paper/s concerned, within the prescribed span period. (Note: The candidate of this category will not be allowed to join any post-graduate courses)

(iv) In case of re-appearance in paper, the result will be prepared on the basis of candidate’s current performance in the examinations.

(v) In the case of a candidate, who opts to re-appear in any paper/s under the aforesaid provisions, on surrendering her/his earlier performance but fails to reappear in the paper/s concerned, the marks previously secured by the candidate in the paper/s in which she/he has failed to reappear shall be taken into account while determining her/his result of the examination held currently.

(vi) Re-appearance for Improvement in the Practical/Internal Assessment/Project Work shall not be allowed.

(vii) A candidate who has passed the B.Sc. (Honours) semester system examination from the Panjab University may re-appear as a private candidate in a course, he/she wishes to, with a view to improving his/her performance. For this purpose, he may be given two chances within a period of 5 years from the date of his passing the said degree course. In the first instance the candidate shall be required to intimate all the courses in which he would like to improve his/her performance. He/she will then appear in the respective course/s at the main semester examination only i.e. for the courses offered for First, Third & Fifth semesters in the November/December examination and for the Second, Fourth & Sixth Semesters in April/May examination.

If he/she does not improve his/her performance, in any course/s, he/she shall be eligible to do so in the following year in the semester examination concerned which would be treated as a second chance. The candidate shall be charged examination free as fixed by the Syndicate from time to time.

19.2 The improvement examination will be held as per current syllabus and along with the regular end-semester examinations. As such, there will be no improvement in the performance in the continuous assessment.

19.3 Regarding chances for improvement, a chance would mean appearing in the odd and even-semesters in one academic session and there would be no restriction on the number of papers he/she wants to appear in as per the date-sheet framed for the regular candidates.
<table>
<thead>
<tr>
<th>SEMESTER I</th>
<th>SEMESTER II</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Credits:</strong> 06; <strong>Marks:</strong> 150</td>
<td><strong>Credits:</strong> 06; <strong>Marks:</strong> 150</td>
</tr>
<tr>
<td>C1</td>
<td>C3</td>
</tr>
<tr>
<td>C2</td>
<td>C4</td>
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<table>
<thead>
<tr>
<th>AECC1</th>
<th>AECC2</th>
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<tbody>
<tr>
<td>GE1*</td>
<td>GE3*</td>
</tr>
<tr>
<td>GE2*</td>
<td>GE4*</td>
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<table>
<thead>
<tr>
<th>SEMESTER III</th>
<th>SEMESTER IV</th>
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<tbody>
<tr>
<td><strong>Credits:</strong> 06; <strong>Marks:</strong> 150</td>
<td><strong>Credits:</strong> 06; <strong>Marks:</strong> 150</td>
</tr>
<tr>
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<tr>
<td>C6</td>
<td>C9</td>
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<td>C10</td>
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<table>
<thead>
<tr>
<th>SEC1**</th>
<th>SEC2**</th>
</tr>
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<tbody>
<tr>
<td>GE5*</td>
<td>GE6*</td>
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</tr>
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<td>C13</td>
</tr>
<tr>
<td>C12</td>
<td>C14</td>
</tr>
<tr>
<td>DSE1#</td>
<td>DSE3#</td>
</tr>
<tr>
<td>DSE2#</td>
<td>DSE4#</td>
</tr>
</tbody>
</table>

C: Core Courses; GE: General Elective; AECC: Ability Enhancement Compulsory Courses; SEC: Skill Enhancement Courses; DSE: Discipline Specific Elective
*GE - General Elective courses are to be selected by the student from the pool of GE subjects - Mathematics, Chemistry, Economics and Computer Science offered by the other Departments of the University.

**SEC - SKILL Enhancement Courses are to be selected by the student from the courses offered by the Physics Department in semesters III and IV.

# DSE - DISCIPLINE SPECIFIC ELECTIVE COURSES are to be selected by the student from the courses offered by the Physics Department in semesters V and VI.

*SKILL ENHANCEMENT COURSES (any one per semester in semesters III and IV)

#DISCIPLINE SPECIFIC ELECTIVE COURSES

(Any two per semester in semesters V and VI. Course under these will be offered only if a minimum of 10 students opt for the same.)

**Credits and Maximum Marks:**

1. Core Courses (C1-C14)
   - Credits = 06 (04 Theory + 02 Practicals) each
   - Total marks 150 each

2. Discipline Specific Elective (DSE1-DSE4)
   - Credits = 06 each
   - Total marks = 150 each

3. Skill Enhancement Courses (SEC1-SEC2)
   - Credits = 02 each
   - Total marks = 50 each

4. Ability Enhancement (AECC1-AECC2)
   - Credits = 02 each
   - Total marks = 50 each

5. Generic Elective (GE1-GE6)
   - Credits = 06 each
   - Total marks = 150 each.