

Regulations Governing the Choice-Based Credit and Grading System in Under Graduate Programmes (Constituent and Affiliated Colleges)

I. Preamble

The University Grants Commission (UGC) has initiated several measures to bring equity, efficiency and excellence in the Higher Education System of country. The important measures taken to enhance academic standards and quality in higher education include innovation and improvements in curriculum, teaching-learning process, examination and evaluation systems, besides governance and other matters. The UGC has formulated various regulations and guidelines from time to time to improve the higher education system and maintain minimum standards and quality across the Higher Educational Institutions (HEIs) in India. The grading system is considered to be better than the conventional marks system and hence it has been followed in the top institutions in India and abroad. So it is desirable to introduce uniform grading system. This will facilitate student mobility across institutions within and across countries and also enable potential employers to assess the performance of students.

The Choice Based Credit System (CBCS) enables the student to obtain a degree by accumulating required number of credits prescribed for that degree. The choice based credit system provides a 'cafeteria' type approach in which the students can take courses of their choice, learning at their own pace, undergo additional courses and acquire more than the required credits, and adopt an interdisciplinary approach to learning. The number of credits earned by a student reflects the knowledge or skill acquired by him/her. Each course is assigned with a fixed number of credits based on the contents to be learned. The grade points earned for each course reflects the student's proficiency in that course. The CBCS enables the students to earn credits across departments and provides flexibility in duration to complete a program of study.

II. Objectives

Introduction of Choice Based Credit System has the following main objectives:

- 1) To promote learner centeredness in curriculum.
- 2) To encourage inter-disciplinarily without sacrificing the domain knowledge.
- 3) To promote mobility of students and help in optimizing learning.
- 4) To allow autonomy to the teachers with built in accountability.
- 5) To continuously evaluate students and help in optimizing learning.
- 6) To introduce transparency in the evaluating system.
- 7) To promote teacher-student relation and engagement.
- 8) To improve employability among students.

III. Applicability of Credit and Grading System

The regulation shall apply to all undergraduate programmes (regular degree) running in constituent and affiliated colleges. Skill based occupational degree (B.Voc.) is not governed by present regulation. The regulation shall not apply to programmes like L.L.B., B.Sc – nursing, B.Ed. and courses not specified here.

IV. Eligibility for Admission

- 1) Pass in the Higher Secondary (10+2) Examination or its equivalent conducted by any recognized Board of the State or Central Government. For admission in Science subjects, a candidate must pass in the relevant subject(s).
- 2) Candidate passing with vocational courses, the equivalence may be decided by the college Principal.

V. Under Graduate Programme

- 1) The Under Graduate Programme shall consist of three academic years with two semesters in each year. The first Academic year shall comprise of the first and second semesters, the second academic year – the third and fourth semester and the third academic year – the fifth and sixth semester.
- 2) The working days for each semester shall not be less than 90 excluding holidays/ sports/ examination/ semester break/ vacation, if any.
- 3) A candidate shall register his/her name with the University in the first semester itself.
- 4) A candidate can avail a maximum of 10 semesters – 5 years (in one stretch). Candidates are allowed as many attempts as possible within this total time frame to clear their backlog papers.
- 5) A candidate has to earn a minimum of 140 Credits, for successful completion of Under Graduate degree, with a distribution of credits for different course categories as given in following **Table 1**.

Table 1. Course categories and distribution of Credits.

Sl. No.	Course Category	Credits
1	Foundation Courses (FC)	20
2	Major Core Course (CC)	72
3	Elective Core Course (EC)	48
Total		140

In case of B.COM and Home Science, elective core courses (EC) are not applicable; the credits shall be shifted to Core Course (CC).

VI. Definitions

- 1) **Academic Year:** Two consecutive (one odd + one even) semesters constitutes one academic year.
- 2) **Programme:** An educational programme (B.Sc., B.A., B.COM. etc) leading to award of a Degree.
- 3) **Semester:** Each semester will consists of 18 weeks of academic work equivalent to 90 actual teaching days. The odd semester is scheduled from July to December and even semester from January to June.

- 4) **Course:** Usually referred to, as ‘papers’ is a component of a programme. All courses needed not carry the same weight. The course should define learning objectives and learning outcomes. A course is designed to comprise lectures/tutorials/laboratory work/field work/project work/viva/seminars/assignments/presentation etc. or a combination of some of these.
- 5) **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit shall mean one hour of teaching (lecture or tutorial) or two hours of laboratory/practical work per week in a semester of 18 weeks.
- 6) **Letter Grade:** it is an index of performance of learners in a said course. Grades are denoted by O, A+, A, B+, B, C and F(Fail).
- 7) **Grade Point:** It is a numerical weight allotted to each letter grade on a 10-point scale.
- 8) **Credit Point:** It is the product of grade point and number of credits for a course.
- 9) **Semester Grade Point Average (SGPA):** It is a measure of performance of work done in a semester. It is a ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.
- 10) **Cumulative Grade Point Average (CGPA):** It is overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It shall be expressed up to two decimal places.
- 11) **Grade Card:** Based on the grades earned, a grade card shall be issued to all the registered students after every semester. The grade card will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.

VII. Type of Courses

The courses for Under Graduate degree shall be of three kinds:

- 1) **Foundation Courses (FC):** Foundation courses are courses based upon the content that leads to knowledge enhancement and man-making education.
- 2) **Core Courses:** These courses are to be compulsorily studied by a student as a core requirement of programme in a said discipline of the study. It comprises of two types:
 - i. **Major Core Course (CC):** These courses belong to subject in which student receive degree with Honours.
 - ii. **Elective Core Courses (EC):** These courses belong to two other elective subjects opted by student from allowed subject combinations along with a Major subject during 1st and 2nd years.
 - iii. Core Courses will be treated as ‘Honours’

VIII. Allowed Course Combinations:

Table 2. Subject Combinations allowed for B.A. Degree

Core Course	Elective Subject-I and Elective Subject-II		
English/Mizo/Hindi	Any Two	A.	Education or Geography
		B.	Economics or Philosophy or Public Administration
		C.	History or Sociology
		D.	Psychology or Political Science
Education/Geography	Any Two	A.	English or Hindi or Mizo
		B.	Economics or Philosophy or Public Administration
		C.	History or Sociology
		D.	Psychology or Political Science
History/Sociology	Any Two	A.	Education or Geography
		B.	Economics or Philosophy or Public Administration
		C.	English or Hindi or Mizo
		D.	Psychology or Political Science
Political Science/ Psychology	Any Two	A.	Education or Geography
		B.	Economics or Philosophy or Public Administration
		C.	History or Sociology
		D.	English or Hindi or Mizo
Economics/Philosophy /Public Administration	Any Two	A.	Education or Geography
		B.	English or Mizo or Hindi
		C.	History or Sociology
		D.	Psychology or Political Science
		E.	Mathematics (BA)

Table 3. Subject Combinations allowed for B.Sc. Degree

Core Subject	Elective Subject-I	Elective Subject-II
Physics	Mathematics	Chemistry/Electronics/Geology/Statistics
Mathematics (B.A)	Economics	Philosophy
Mathematics	Physics	Chemistry/Statistics/Electronics/Geology
Mathematics	Statistics	Economics
Chemistry	Mathematics	Physics/Statistics
	Botany/Biochemistry	Zoology/Geology/Biotechnology
Zoology	Chemistry	Botany/Biochemistry/Geology
Botany	Chemistry	Zoology/Geology/Biochemistry
Biotechnology	Chemistry	Zoology/Botany
Geology	Physics	Mathematics/Statistics
	Chemistry	Botany/Zoology/Environmental Science
Statistics	Physics	Mathematics
	Chemistry	Zoology/Botany/Geology
	Mathematics	Economics
Environmental Science	Chemistry	Zoology/Botany/Geology

*** BOS and School Boards will revise subject combination time to time.**

IX. Curriculum Structure for a UG Programme

- I. Each UG programme shall be designed as 140-credit, full-time undergraduate degree programme delivered in six (06) semesters.
- II. Each course of a programme must be unitized (usually five) by concerned BOS.
- III. Each programme shall be structured with a common core curriculum that lays the foundation, and a wide set of electives based on student's choice.
- IV. Irrespective of discipline, each UG programme shall be a suitable mix of three types of courses as given below in Table 1.
- V. Up to second year (i.e. Ist, IInd, IIIrd and IVth semester) there shall be no categorization as Core/Honour and Elective. At the time of admission to Vth semester, students shall identify one subject as Major Core/Honour subject. Accordingly, other two subjects shall be designated as Elective Core Subject 1 and Elective Core Subject 2.

X. B.A Course Structure

Semester	Course	Course No.	Category	Credit	Marks		
					Cont. Assessment	End-Semester	Total
I	English-I	Course-I	FC	5	25	75	100
	Elective Core Subject-I	Course-I	EC	6	25	75	100
	Elective Core Subject-II	Course-I	EC	6	25	75	100
	Elective Core Subject-III	Course-I	EC	6	25	75	100
	TOTAL				23	100	300
II	English-II	Course-II	FC	5	25	75	100
	Elective Core Subject-I	Course-II	EC	6	25	75	100
	Elective Core Subject-II	Course-II	EC	6	25	75	100
	Elective Core Subject-III	Course-II	EC	6	25	75	100
	TOTAL				23	100	300
III	MIL (Alt English/Mizo/Hindi)	Course-III	FC	5	25	75	100
	Elective Core Subject-I	Course-III	EC	6	25	75	100
	Elective Core Subject-II	Course-III	EC	6	25	75	100
	Elective Core Subject-III	Course-III	EC	6	25	75	100
	TOTAL				23	100	300
IV	Environmental Studies	Course-IV	FC	5	25	75	100
	Elective Core Subject	Course-IV	EC	6	25	75	100
	Elective Core Subject-I	Course-IV	EC	6	25	75	100
	Elective Core Subject-II	Course-IV	EC	6	25	75	100
	TOTAL				23	100	300
V	Major Core Subject	Course-V	CC	6	25	75	100
	Major Core Subject	Course-VI	CC	6	25	75	100
	Major Core Subject	Course-VII	CC	6	25	75	100
	Major Core Subject (Optional A or B)	Course-VIII	CC	6	25	75	100
	TOTAL				24	100	300
VI	Major Core Subject	Course-IX	CC	6	25	75	100
	Major Core Subject	Course-X	CC	6	25	75	100
	Major Core Subject	Course-XI	CC	6	25	75	100
	Major Core Subject (Optional A or B)	Course-XII	CC	6	25	75	100
	TOTAL				24	100	300
Entire Programme			TOTAL	140	600	1800	2400

B.Sc Course Structure and Credit Distribution

Semester	Course	Course No.	Category	Credit	Marks		
					Cont. Assessment	End-Semester	Total
I	English-I	Course-I	FC	5	25	75	100
	Elective Core Subject-I	Course-I Theory	EC	4	25	75	100
		Course-I Practical	EC	2	25	75	100
	Elective Core Subject-II	Course-I Theory	EC	4	25	75	100
		Course-I Practical	EC	2	25	75	100
	Elective Core Subject-III	Course-I Theory	EC	4	25	75	100
	Course-I Practical	EC	2	25	75	100	
TOTAL				23	175	525	700
II	English-II	Course-II	FC	5	25	75	100
	Elective Core Subject-I	Course-II Theory	EC	4	25	75	100
		Course-II Practical	EC	2	25	75	100
	Elective Core Subject-II	Course-II Theory	EC	4	25	75	100
		Course-II Practical	EC	2	25	75	100
	Elective Core Subject-III	Course-II Theory	EC	4	25	75	100
	Course-II Practical	EC	2	25	75	100	
TOTAL				23	175	525	700
III	History of Science	Course-III	FC	5	25	75	100
	Elective Core Subject-I	Course-III Theory	EC	4	25	75	100
		Course- III Practical	EC	2	25	75	100
	Elective Core Subject-II	Course- III Theory	EC	4	25	75	100
		Course- III Practical	EC	2	25	75	100
	Elective Core Subject-III	Course- III Theory	EC	4	25	75	100
	Course- III Practical	EC	2	25	75	100	
TOTAL				23	175	525	700
IV	Environmental Studies	Course-IV	FC	5	25	75	100
	Elective Core Subject-I	Course- IV Theory	EC	4	25	75	100
		Course- IV Practical	EC	2	25	75	100
	Elective Core Subject-II	Course- IV Theory	EC	4	25	75	100
		Course- IV Practical	EC	2	25	75	100
	Elective Core Subject-III	Course- IV Theory	EC	4	25	75	100
	Course- IV Practical	EC	2	25	75	100	
TOTAL				23	175	525	700
V	Major Core Subject	Course V Theory	CC	4	25	75	100
		Course V Practical	CC	2	25	75	100
	Major Core Subject	Course-VI Theory	CC	4	25	75	100
		Course-VI Practical	CC	2	25	75	100
	Major Core Subject	Course-VII Theory	CC	4	25	75	100
		Course-VII Practical	CC	2	25	75	100
	Major Core Subject (Optional A or B)	Course-VIII Theory	CC	4	25	75	100
		Course-VIII Practical	CC	2	25	75	100
TOTAL				24	200	600	800
VI	Major Core Subject	Course-IX Theory	CC	4	25	75	100
		Course-IX Practical	CC	2	25		
	Major Core Subject	Course-X Theory	CC	4	25	75	100
		Course-X Practical	CC	2	25	75	100
	Major Core Subject	Course-XI Theory	CC	4	25	75	100
		Course-XI Practical	CC	2	25	75	100
	Major Core Subject (Optional A or B)	Course-XII Theory	CC	4	25	75	100
		Course-XII Practical	CC	2	25	75	100
TOTAL				24	200	600	800
TOTAL				140	1100	3300	4400

Note: Disciplines like Mathematics, where there is no practical, the credits assigned for Practical will be added to theory course.

B.Com Course Structure and Credit Distribution

Semester	Course	Course No.	Category	Credit	Marks		
					Cont. Assessment	End-Semester	Total
I	English-I	Course-I	FC	5	25	75	100
	Core Subject-I	Course-I	CC	6	25	75	100
	Core Subject-II	Course-II	CC	6	25	75	100
	Core Subject-III	Course-III	CC	6	25	75	100
	TOTAL				23	100	300
II	English-II	Course-II	FC	5	25	75	100
	Core Subject-I	Course-IV	CC	6	25	75	100
	Core Subject-II	Course-V	CC	6	25	75	100
	Core Subject-III	Course-VI	CC	6	25	75	100
	TOTAL				23	100	300
III	MIL (Alt English/Mizo/Hindi)	Course-III	FC	5	25	75	100
	Core Subject-I	Course-VII	CC	6	25	75	100
	Core Subject-II	Course-VIII	CC	6	25	75	100
	Core Subject-III	Course-IX	CC	6	25	75	100
	TOTAL				23	100	300
IV	Environmental Studies	Course-IV	FC	5	25	75	100
	Core Subject-I	Course-X	CC	6	25	75	100
	Core Subject-II	Course-XI	CC	6	25	75	100
	Core Subject-III	Course-XII	CC	6	25	75	100
	TOTAL				23	100	300
V	Major Core Subject	Course-XIII	CC	6	25	75	100
	Major Core Subject	Course-XIV	CC	6	25	75	100
	Major Core Subject	Course-XV	CC	6	25	75	100
	Major Core Subject (Optional A ,B or C)	Course-XVI	CC	6	25	75	100
	TOTAL				24	100	300
VI	Major Core Subject	Course-XVII	CC	6	25	75	100
	Major Core Subject	Course-XVIII	CC	6	25	75	100
	Major Core Subject	Course-XIX	CC	6	25	75	100
	Major Core Subject (Optional A ,B or C)	Course-XX	CC	6	25	75	100
	TOTAL				24	100	300
Entire Programme			TOTAL	140	600	1800	2400

Home Science Course Structure and Credit Distribution

Semester	Course	Course No.	Category	Credit	Marks		
					Cont. Assessment	End-Semester	Total
I	English-I	Course-I	FC	5	25	75	100
	Core Subject-I	Course-I	CC	6	25	75	100
	Core Subject-II	Course-II	CC	6	25	75	100
	Core Subject-III	Course-III	CC	6	25	75	100
TOTAL				23	100	300	400
II	English-II	Course-II	FC	5	25	75	100
	Core Subject-I	Course-IV	CC	6	25	75	100
	Core Subject-II	Course-V	CC	6	25	75	100
	Core Subject-III	Course-VI	CC	6	25	75	100
TOTAL				23	100	300	400
III	History of Science	Course-III	FC	5	25	75	100
	Core Subject-I	Course-VII	CC	6	25	75	100
	Core Subject-II	Course-VIII	CC	6	25	75	100
	Core Subject-III	Course-IX	CC	6	25	75	100
TOTAL				23	100	300	400
IV	Environmental Studies	Course-IV	FC	5	25	75	100
	Core Subject-I	Course-X	CC	6	25	75	100
	Core Subject-II	Course-XI	CC	6	25	75	100
	Core Subject-III	Course-XII	CC	6	25	75	100
TOTAL				23	100	300	400
V	Major Core Subject	Course-XIII	CC	6	25	75	100
	Major Core Subject	Course-XIV	CC	6	25	75	100
	Major Core Subject	Course-XV	CC	6	25	75	100
	Major Core Subject (Optional A or B)	Course-XVI	CC	6	25	75	100
TOTAL				24	100	300	400
VI	Major Core Subject	Course-XVII	CC	6	25	75	100
	Major Core Subject	Course-XVIII	CC	6	25	75	100
	Major Core Subject	Course-XIX	CC	6	25	75	100
	Major Core Subject (Optional A or B)	Course-XX	CC	6	25	75	100
TOTAL				24	100	300	400
Entire Programme			TOTAL	140	600	1800	2400

CC: Major Core Course; EC: Elective Core Course; FC: Foundation Course.

XI. Examination and Assessment

Each course shall be evaluated at the scale of 100. For all courses, irrespective of theory and practical, there shall be continuous internal assessment carrying 25 marks and an end-semester examination carrying 75 marks.

1) Continuous Assessment:

The outline for continuous assessment activities shall be proposed by the teacher(s) concerned before the commencement of the semester. Some suggested parameters of Continuous Assessment are class tests, seminar, quiz, home assignments, project and many other methods. However, there shall be series of tests at regular intervals for each course (paper) incorporating various parameters as given above. Final marks shall be calculated for total 25 marks.

The scheme of awarding marks in internal assessment for theory courses shall be as below:

Component	Total Marks
Class Test (Average of 2 Test)	12 Marks
Assignments/Seminar/Project etc.	8 Marks
Regularity in the class	5 Marks

Two Test will be compulsory. If Student appears only one Test, average will be computed from the single Test appeared.

Attendance evaluation for each course shall be as given below:

Attendance	Marks
90% and above	5
85 less than 90%	4
80 less than 85%	3
76 less than 80%	2
75 less than 76%	1

2) The End-Semester Examination

For each course (separately for theory and practical) end-semester examination shall be conducted for 75 marks each. Finally the marks obtained in internal assessment and end-semester examination in each course shall be computed and Grade awarded accordingly.

3) Pattern of questions for theory and practical examination

Duration of theory and practical examination will be 3 hours. The question paper shall be set covering all units/sections.

The pattern of questions for theory papers and practical will be as given as below.

Table 4: Pattern of questions for Theory Paper.

Section	Total No. of Questions	No. of questions to be answered	Marks for Each Questions	Total Marks
A. Objective/ Multiple Choice	10 (two questions from each unit)	10	1	10
B. Short Answer	10 (two questions from each unit)	5 (one from each unit)	3	15
C. Descriptive	10 (two questions from each unit)	5 (one from each unit)	10	50
TOTAL				75

(Vide Notification No.EX/UG/1-18/13/679, dt. 18.8.2016)

4) Practical:

(i) For 1st – 4th Semesters:

- a) There shall be no external examiner for conducting Practical examination.
- b) There shall be a Continuous Evaluation of practical courses conducted by the course in-charge.
- c) Continuous evaluation of practical will carry a total of 75 marks.

d) The scheme of continuous evaluation of practical courses will be as given below:

Components of Continuous Evaluation	Marks
Continuous evaluation of practical/exercise performed in practical classes by the students	75
Practical Records	10
End-semester viva-voce examination to be conducted by course in-charge	10
Regularity in practical class	5
Total	100

- e) The process of continuous evaluation of practical Courses shall be completed before 15 days from beginning of end-semester examination as notified by the Examination Department.
- f) If students failed in continuous assessment of a practical course due to one or other reasons, the “Pending” course may be cleared during 4th/5th year along with respective semester. The students shall be required to attend practical classes of that course by going through the continuous evaluation process.
[as approved by 32nd AC vide No. AC:32:4(4)]

(ii) For 5th and 6th Semesters:

Pattern of questions for Practical Paper

The scheme of awarding marks for a practical course shall be as given below:

Component	Total Marks
Evaluation in the Lab and Record	8 Marks
End Semester Test	12 Marks
Regularity in class	5 Marks

End Semester

Experiment	Principle/Theory	5
	Procedure/Performing of the experiment/ Dissections/Result/Discussion	40
	Viva-voce	20
	Record/File/Herbarium	10
TOTAL		75

Practical Exam will be conducted by External Examiner, as appointed by Examinations Department, Mizoram University with the following guidelines.

- There shall be Practical end Semester Examinations for Vth and VIth semester students with Practical component(s) in their CBCS curriculum. The practical examinations shall be conducted by the concern College, the schedule of which shall be notified by the Controller of Examinations, MZU in the academic calendar every year.
- The Controller of Examination, MZU shall appoint External Examiner (s) for all Practical Examinations in undergraduate degree colleges under Mizoram University. The examiner(s)

in a college may be appointed either from Post Graduate teacher in the university or teacher from any other colleges.

3. The appointed external examiners must be knowledgeable and competent in assessing the students. He/ She must be a regular teaching staff with relevant experience in the subject.
4. External examiners shall function within the guidelines as stated in the subsequent points. They are to provide independent and impartial judgments so as to maintain the quality and standards of the practical examinations.
5. The External Examiner(s) shall take part in evaluation of student's practical examinations along with teachers of the college. He/ She shall ensure that all assessments are conducted in accordance with the assessment regulations for the course as stated in CBCS End Semester Practical examinations guidelines.
6. He/ she alone shall be responsible for Viva Voce examinations and shall award viva voce marks according to CBCS Regulations.
7. The Controller of Examinations shall have the right to call for all the records of teachers' continuous evaluation and moderate the teacher's evaluation if it deems necessary in any specific case(s).
8. All Travel expenses of the external examiner(s) shall be reimbursed by the university as per the prevailing regulations for the university faculty deputed on duty.
9. Remuneration shall also be given as per the university guidelines.

5) Evaluation of Project Paper:

In Project Papers in the 5th and 6th Semesters, the Internal Marks of 25 may be awarded by the College and upload along with Internal Assessment Marks. Project Report in the binded form will be forwarded to the Examinations Department for Evaluation.

6) Re-Evaluation/Re-Scrutiny

The Committee review the present structure of CBCS Regulations and the following points were deliberated.

1. A Candidate may, within 15 days of declaration of results, apply for Re-evaluation of not more than 2(two) papers by paying a prescribed Fee applicable from time to time.
2. Re-evaluation is not applicable to those candidates who failed in more than 2(two) papers.
3. The facility for Re-evaluation is not applicable to Practical Examination Papers.
4. All request for Re-evaluation shall be accompanied by:
 - i. University Challan issued by Finance Department of the University/Demand Draft/Banker's/SBI Online Cheque in favour of Mizoram University for the amount prescribed.
 - ii. The Original Mark-Sheet issued by the University.
5. The application shall be screened by the Controller of Examinations/Examinations Department and shall be sent to one Examiners others than the ones who have examined the script earlier.
6. If the award of second examiner (re-evaluator) is more than the award of the first examiner, subject to a limit of 20% of the maximum marks prescribed for the paper, the same shall be taken as the marks obtained on revaluation. In case the award of second examiner (re-evaluator) exceeds the above limit of 20%, the

answer books shall be referred to a third examiner and the average of the two closest award shall be taken into account. If the three awards are uniformly spread, then the middle award shall be taken into account.

7. **a)** If the award of the second examiner (re-evaluator) is less than that of the first examiner up to the extent of 5% of the maximum marks prescribed for the paper, the award of the first examiner shall stand.
b) In case the award of the second examiner (re-evaluator) is less than that of the first examiner and the decrease is more than 5% but no more than 20% of the maximum marks prescribed for the paper, the average of the two awards shall be taken as the marks of re-evaluation provided the result of the candidate is not affected adversely i.e. his division is not changed or he does not get supplementary or he does not fail in an individual paper/subject instead of pass. In such cases the marks shall decreased to the extent that his result is not affected adversely.
c) If the award of the second examiner (re-evaluator) is less than that of the first examiner and the decrease in marks exceeds 20% of the maximum marks prescribed for the paper the answer book shall be referred to a third examiner and the average of the two closest awards (the middle award in case the three awards are uniformly spread) shall be taken as the marks of re-evaluation subject to the provision mentioned above in sub-clause. (b)
8. No retrospective benefits such as award of Gold Medal, Scholarship, Fellowship, Admission, Promotion, etc. shall be accrued to a Candidates as a result of Re-evaluation.
9. Re-evaluation shall not be time-bound process, but all efforts will be made to ensure early declaration of results.

XII. Passing Rules

- 1) A minimum of 140 Credits are required for awarding B.Sc/B.Com and B.A degree.
- 2) For passing of each course, a candidate must secure a minimum of 40% marks (equivalent Grade 'C') in end semester examination. For internal assessment there shall be no passing marks. However, grading shall be based on marks obtained in both components i.e. internal assessment and end semester examination.
- 3) In any case, a student shall not be allowed to repeat/improve a course for internal assessment component.
- 4) The 1st semester student who has not promoted to the 2nd semester, due to any reason, may quit the programme or may seek for a fresh admission in the same subject or other after passing through the prevailing admission procedure.
- 5) A candidate shall be permitted to proceed from the first semester up to final semester irrespective of his/her failure in any of the semester examination subject to condition that the candidate shall appear for all the arrear papers of each course(s) along with the concerned semester examinations.
- 6) If student does not appear in the examination of all the prescribed course of a semester, he/she shall not be promoted to the next semester. Such students may quit the programme or can take admission in the same semester provided that total period will not exceed 10 consecutive semesters. However, such student will not be considered for merit/ranking etc.

(Illustration: if a student does not appear the examinations of all the papers of the 2nd Semester, he/she may not be promoted to the 3rd semester. Such student can take admission in 2nd Semester as a fresh student in the corresponding semester. However, if a student appears in atleast one of the paper, he/she may be permitted to proceed to the next semester.)

- 7) Candidates are allowed to repeat their fail papers as many attempts as possible within the total time frame to clear their back papers.

XIII. Attendance

A candidate shall be eligible to appear in the end-semester examination only if he/she attends a minimum of 75% attendance as per University ordinance. (calculation of attendance should be based in overall performance of the candidate)

XIV. Grading

- 1) Each course (paper) shall be graded on the basis of marks obtained (on scaled marks of 100) during a semester.
- 2) **Letter Grades and Grade Points:** There shall be absolute grading where marks obtained (out of 100) by a student in a course is converted to a Grade on a 10-point scale is given in Table 6:

Table 6: Marks to grade conversion

Marks (%)	Letter Grade	
90 to 100	O	Outstanding
80 to less than 90	A+	Excellent
70 to less than 80	A	Very Good
60 to less than 70	B+	Good
50 to less than 60	B	Average
40 to less than 50	C	Pass
Less than 40	F	Fail

Computation of SGPA and CGPA:

Following procedure shall be adopted for the calculation of SGPA and CGPA.

1. The SGPA is the ratio of sum of the product of the number of credits and the grade value scored by a student in all the courses opted by a student and the sum of the number of credits of all the courses undergone by a student, i.e.

$SGPA(S_i) = \frac{\sum C_i \times G_i}{\sum C_i}$ Where, S_i is the SGPA of the semester, C_i is the number of credits of the i^{th} course and G_i is the grade value scored by the student in the i^{th} course.

2. The CGPA shall be calculated in the same manner taking in to account all the courses undergone by a student over all the semester of a programme, i.e.

$CGPA = \frac{\sum C_i \times S_i}{\sum C_i}$ Where, S_i is the SGPA of i^{th} semester, and C_i is the total number of credits in that semester.

3. The SGPA and CGPA shall be rounded off to 3 decimal points and reported in the transcript.

4) Grade Improvement in CBCS-UG Regulation:

- i) A candidate who has passed B.A., B.Sc. or B.Com degree examination, he/she may be permitted to re-appear in examination for grade improvement in only theory course(s) passed with Grades lower than A+.
- ii) A candidate is allowed to give Improvement for a maximum of 1 Paper/Course only.
- iii) If a candidate secures lesser marks in the Improvement Examinations, the original marks shall be retained.
- iv) A candidate is eligible for improvement only after passing the Final Semester (i.e., VI Semester). However, a candidate is not allowed to take improvement beyond 10(Ten) Semester, counting from the enrolment.
- v) A candidate desiring to apply for Improvement shall apply through the concerned College/Examination Centre by Payment of requisite fee and the College shall forward to Examinations Department along with list of Repeaters.
- vi) A candidate who applies for Improvement shall surrender Original Mark Sheet which was already issued to him/her.
- vii) A candidate appearing for Improvement shall not be entitled to get any Prize/Rank/Medal/Scholarship award.

5) Ranking:

- i. Programme/Subject wise ranking shall be awarded at the final B.A., B.Sc.,B.Com.,B.Sc (Home Science) examinations.
- ii. Top 10 candidates who pass all the examinations prescribed for each course of the programme in the first appearance of each semester (without repeating) shall be eligible for ranking.
- iii. The CGPA (two decimal points) shall be the basis of ranking. If two or more candidates secured same CGPA, the candidate having higher SGPA in 6th semester will be given higher rank. Even if rank is not resolved the SGPA of 5th semester may be taken into consideration.
- iv. One Gold Medal shall be awarded to First Rank Holder programme wise (B.A./B.Sc./B.Sc(H.Sc)/B.Com) only to those candidates who secure overall CGPA 7.00 or above.
- v. Students other than the Regular batch will not be considered for ranking [as in Regulation XII (7)].

XV. The Classification of the Results

The Final Grade Point (FGP) to be awarded to the student shall be based on CGPA secured by candidate as tabulated below:

CGPA	Division
8 to 10	Distinction
6 to less than 8	First
5 to less than 6	Second
4 to less than 5	Pass
CGPA less than 4	Fail

XVI. Following formula shall be used for conversion of CGPA to % of marks:

$$\% \text{ Marks} = [\text{CGPA} \times 10]$$

XVII. Transitory Provisions

Notwithstanding anything contained in these regulations, the Vice-Chancellor has the power to provide by order that these regulations shall be applied to any program with such necessary modification.

XVIII. Academic Calendar

- | | |
|--|---|
| • Commencement of 1 st /3 rd /5 th Semester Classes | 1 st July |
| • Examination of 1 st /3 rd /5 th Semester | 10 th November to 6 th December |
| • Winter Vacation | 7 th December to 15 th January |
| • Commencement of 2 nd /4 th /6 th Semester Classes | 16 th January |
| • Examination of 2 nd /4 th /6 th Semester | 1 st May to 21 st May |
| • College Activities | 22 nd May to 7 th June |
| • Semester Break | 8 th June to 30 th June |

(Vide 40th Executive Meeting Resolution No. EC:40:5(23) dt. 5.12.2014)

XIX. Others

- i) Each and every Principal of the College/Institutions will function as Centre Superintendent upon declaration of the College/Institutions as an Examination Centre unless University decides otherwise.
(vide 27th Academic Council Resolution No. AC:27:4(3)(2), dated 21.11.2014)

- ii) Each college shall have a Moderation Board/Committee to moderate the marks awarded to a candidate through continuous Internal Assessment and Practical Examinations. The marks awarded in each semester (Continuous Internal Assessment and Practical Examinations) shall be forwarded to the COE (latest before 7 days from the last date of semester examination / one week before the last date of semester examination.)

Annexure I

Illustration of Computation of SGPA and CGPA and Format for transcripts

Illustration for SGPA:

Course	Credit (C)	Grade Letter	Grade Value (P)	Grade Point (C×P)
Course 1	5	A	8	5×8 = 40
Course 2	6	B+	7	6×7 = 42
Course 3	6	B	6	6×6 = 36
Course 4	6	O	10	6×10 = 60
	23			178

The SGPA shall be $178/23=7.739$

Illustration of CGPA:

I Semester	II Semester	III Semester	IV Semester
Credit :23 SGPA :7.739	Credit :23 SGPA :7.812	Credit :23 SGPA :5.600	Credit :23 SGPA :6.142
V Semester	VI Semester		
Credit :24 SGPA :6.312	Credit :24 SGPA :8.000		

$$\text{Thus, CGPA} = \frac{23 \times 7.739 + 23 \times 7.812 + 23 \times 5.600 + 23 \times 6.142 + 24 \times 6.312 + 24 \times 8.000}{140} = 6.937$$

- i. **The F grade is 'fail' grade.** A student has to appear at subsequent examination(s). For a course if F grade is awarded, Credit points shall not be calculated. Accordingly, for a particular semester, SGPA shall not be calculated unless all courses are above F grade. CGPA shall not be awarded unless each course of all semesters (I to VI semesters) are graded C or above.
- ii. The CGPA is cumulative and not average of SGPA of four semesters. CGPA shall be calculated considering grade points and credits of all semesters i.e. I, II, III, IV, V and VI semesters.
- iii. In the first semester, CGPA = SGPA, but second semester onwards, it depends on total cumulative credits a student has earned.

FOUNDATION COURSES

Semester	Course Title	Code	Credits
<i>A. Elective Courses</i>			
I	ENGLISH - I	ENG/I/FC/01	5
II	ENGLISH - II	ENG/II/FC/02	5
III	HISTORY OF SCIENCE	HISTS/III/FC/03	5
	MIL-ENGLISH	MLENG/III/FC/04	5
	MIL-MIZO	MLMIZ/III/FC/05	5
	MIL-HINDI	MLHIN/III/FC/06	5
IV	ENVIRONMENTAL STUDIES	EVS/IV/FC/07	5

ENGLISH

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	History of English Literature	I	ENG/I/EC/01	6
II	History of English Languages & Phonetics	II	ENG/II/EC/02	6
III	Poetry & Short Stories	III	ENG/III/EC/03	6
IV	Fictions - I	IV	ENG/IV/EC/04	6
<i>B. Major Core Courses</i>				
V	Drama - I	V	ENG/V/CC/05	6
	Women's Writing	VI	ENG/V/CC/06	6
	Literary Theory & Criticism	VII	ENG/V/CC/07	6
	Fictions - II (<i>Option A</i>)	VIII(A)	ENG/V/CC/08 (A)	6
	Popular Studies (<i>Option B</i>)	VIII(B)	ENG/V/CC/08 (B)	6
VI	Indian Writing in English	IX	ENG/VI/CC/09	6
	Drama - II	X	ENG/VI/CC/10	6
	Literary Criticism	XI	ENG/VI/CC/11	6
	American Literature (<i>Option A</i>)	XII(A)	ENG/VI/CC/12 (A)	6
	Commonwealth Literature (<i>Option B</i>)	XII(B)	ENG/VI/CC/12 (B)	6

Note: Either option A or option B can be opted.

MIZO

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Poetry - I	I	MIZ/I/EC/01	6
II	Drama - I	II	MIZ/II/EC/02	6
III	Fiction - I	III	MIZ/III/EC/03	6
IV	Essays	IV	MIZ/IV/EC/04	6
<i>B. Major Core Courses</i>				
V	Theory of Literature	V	MIZ/V/CC/05	6
	Selected English Poem	VI	MIZ/V/CC/06	6
	Poetry - II	VII	MIZ/V/CC/07	6
	Drama - II (<i>Option A</i>)	VIII(A)	MIZ/V/CC/08 (A)	6
	Prose Writings (<i>Option B</i>)	VIII(B)	MIZ/V/CC/08 (B)	6
VI	History of Mizo Literature	IX	MIZ/VI/CC/09	6
	Fiction - II	X	MIZ/VI/CC/10	6
	Mizo Language and Grammar	XI	MIZ/VI/CC/11	6
	English Literature Criticism (<i>Option A</i>); <i>OR</i>	XII(A)	MIZ/VI/CC/12 (A)	6
	English Prose (<i>Option B</i>)	XII(B)	MIZ/VI/CC/12 (B)	6

Note: Either option A or option B can be opted

HINDI

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Hindi Sahitya Ka Itihas (Aadikal Se Reetikal Tak)	I	HIN/I/EC/01	6
II	Hindi Kavya (Aadikaleen Avam Madhyakaleen)	II	HIN/II/EC/02	6
III	Hindi Sahitya Ka Itihas (Adhunik kal)	III	HIN/III/EC/03	6
IV	Hindi Gadya Sahitya - I	IV	HIN/IV/EC/04	6
<i>B. Major Core Courses</i>				
V	Adhunik Hindi Kavya	V	HIN/V/CC/05	6
	Hindi Gadya Sahitya - II	VI	HIN/V/CC/06	6
	Bhartiya Evam Pashchatya Kavya Shastra	VII	HIN/V/CC/07	6
	Katha Sahitya (<i>Option A</i>)	VIII(A)	HIN/V/CC/08 (A)	6
	Hindi Patrakarita (<i>Option B</i>)	VIII(B)	HIN/V/CC/08 (B)	6
VI	Adhunik Hindi Kavya (Chhayavadottar)	IX	HIN /VI/CC/09	6
	Bhasha Vigyan Aur Hindi Bhasha	X	HIN /VI/CC/10	6
	Prayojanmoolak Hinid	XI	HIN /VI/CC/11	6
	Bhaktikal (<i>Option A</i>)	XII(A)	HIN /VI/CC/12 (A)	6
	Chhayavad (<i>Option B</i>)	XII(B)	HIN /VI/CC/12 (B)	6

Note: Either option A or option B can be opted.

EDUCATION

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Psychological Foundation of Education	I	EDN/I/EC/01	6
II	Philosophical & Sociological Foundation of Education	II	EDN/II/EC/02	6
III	Development of Education in India	III	EDN/III/EC/03	6
IV	Issues and Trends in Contemporary India Education	IV	EDN/IV/EC/04	6
<i>B. Major Core Courses</i>				
V	Research Methodology in Education	V	EDN/V/CC/05	6
	Statistics in Education	VI	EDN/V/CC/06	6
	Educational Evaluation	VII	EDN/V/CC/07	6
	Educational Technology (<i>Option A</i>)	VIII(A)	EDN/V/CC/08 (A)	6
	Educational Guidance and Counseling (<i>Option B</i>)	VIII(B)	EDN/V/CC/08 (B)	6
VI	Curriculum Development	IX	EDN/VI/CC/09	6
	Educational Planning and Management	X	EDN/VI/CC/10	6
	Development of Educational Thought	XI	EDN/VI/CC/11	6
	Project Work (<i>Option A</i>); OR	XII(A)	EDN/VI/CC/12 (A)	6
	Pedagogy (<i>Option B</i>); OR	XII(B)	EDN/VI/CC/12 (B)	6
	Special Education (<i>Option C</i>)	XII(C)	EDN/VI/CC/12 (C)	6

Note: Either option A, B or C can be opted.

ECONOMICS

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Microeconomics - I	I	ECO/I/EC/01	6
II	Microeconomics - II	II	ECO/II/EC/02	6
III	Macroeconomics - I	III	ECO/III/EC/03	6
IV	Macroeconomics - II	IV	ECO/IV/EC/04	6
<i>B. Major Core Courses</i>				
V	Indian Economy	V	ECO/V/CC/05	6
	Public Finance	VI	ECO/V/CC/06	6
	Quantitative Techniques - I	VII	ECO/V/CC/07	6
	Agricultural Economics (Option A)	VIII(A)	ECO/V/CC/08 (A)	6
	Industrial Economics (Option B)	VIII(B)	ECO/V/CC/08 (B)	6
	Economic Development and Planning (Option C)	VIII(C)	ECO/V/CC/08 (C)	6
	Mathematical Economics - I (Option D)	VIII(D)	ECO/V/CC/08 (D)	6

VI	Environmental Economics	IX	ECO/VI/EC/09	6
	Quantitative Techniques - II	X	ECO/VI/EC/10	6
	Financial Institutions and Markets	XI	ECO/VI/EC/11	6
	History of Economic Thought (Option A); OR	XII(A)	ECO/VI/EC/12 (A)	6
	International Trade (Option B); OR	XII(B)	ECO/VI/EC/12 (B)	6
	Econometrics (Option C); OR	XII(C)	ECO/VI/EC/12 (C)	6
	Mathematical Economics - II (Option D); OR	XII(D)	ECO/VI/EC/12 (D)	6
	Demography (Option E); OR	XII(E)	ECO/VI/EC/12 (E)	6
Computer and Software Applications in Economics (Option F)	XII(F)	ECO/VI/EC/12 (F)	6	

Note: Either option A, B, C, D, E or F can be opted.

SOCIOLOGY

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Introduction to Sociology	I	SOC/I/EC/01	6
II	Social Anthropology	II	SOC/II/EC/02	6
III	Sociology of Indian Society - I	III	SOC/III/EC/03	6
IV	Sociology of Indian Society - II	IV	SOC/IV/EC/04	6
<i>B. Major Core Courses</i>				
V	Social Change and Social Movement	V	SOC/V/CC/05	6
	Social Stratification	VI	SOC/V/CC/06	6
	Social Research	VII	SOC/V/CC/07	6
	Agrarian Sociology (Option A); OR	VIII(A)	SOC/V/CC/08 (A)	6
	Industrial Sociology (Option B)	VIII(B)	SOC/V/CC/08 (B)	6
VI	Sociological Theories	IX	SOC/VI/EC/09	6
	Rural Sociology	X	SOC/VI/EC/10	6
	Urban Sociology	XI	SOC/VI/EC/11	6
	Sociology of Gender (Option A); OR	XII(A)	SOC/VI/EC/12 (A)	6
	Political Sociology (Option B)	XII(B)	SOC/VI/EC/12 (B)	6

Note: Either option A or B can be opted.

PSYCHOLOGY

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Basic Psychology-I - Theory	I	PSY/I/EC/01	4
	Basic Psychology-I - Practical		PSY/I/EC/02	2
II	Basic Psychology-II - Theory	II	PSY/II/EC/03	4
	Basic Psychology-II - Practical		PSY/II/EC/04	2
III	Life Span Development - Theory	III	PSY/III/EC/05	4
	Life Span Development - Practical		PSY/III/EC/06	2
IV	Health Psychology - Theory	IV	PSY/IV/EC/07	4
	Health Psychology - Practical		PSY/IV/EC/08	2
<i>B. Major Core Courses</i>				
V	Research Methodology	V	PSY/V/CC/09	4
	Project Work - Practical		PSY/V/CC/10	2
	Social Psychology - Theory	VI	PSY/V/CC/11	4
	Social Psychology - Practical		PSY/V/CC/12	2
	Emergence and Growth of Psychology - Theory	VII	PSY/V/CC/13	4
	Emergence and Psychology - Practical		PSY/V/CC/14	2
	Psychopathology-I - Theory	VIII	PSY/V/CC/15	4
	Psychopathology-I - Practical		PSY/V/CC/16	2
VI	Applied Psychology - Theory	IX	PSY/VI/CC/17	4
	Applied Psychology - Practical		PSY/VI/CC/18	2
	Counselling Psychology - Theory	X	PSY/VI/CC/19	4
	Counselling Psychology - Practical		PSY/VI/CC/20	2
	Physiological Psychology - Theory	XI	PSY/VI/CC/21	4
	Physiological Psychology - Practical		PSY/VI/CC/22	2
	Abnormal Psychology-II - Theory	XII	PSY/VI/CC/23	4
	Abnormal Psychology-II - Practical		PSY/VI/CC/24	2

GEOGRAPHY

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Physical Geography	I	GEOG/I/EC/01	6
II	Human Geography	II	GEOG/II/EC/02	6
III	Geography of India	III	GEOG/III/EC/03	6
IV	Cartographic Technique (Practical)	IV	GEOG/IV/EC/04	6
<i>B. Major Core Courses</i>				
V	Geographical Thought	V	GEOG/V/CC/05	6
	Economic Geography	VI	GEOG/V/CC/06	6

	Surveying and Statistical Techniques	VII	GEOG/V/CC/07	6
	Population Geography (Option A)	VIII(A)	GEOG/V/CC/08 (A)	6
	Agricultural Geography (Option B)	VIII(B)	GEOG/V/CC/08 (B)	6
VI	Geomorphology	IX	GEOG/VI/CC/09	6
	Remote Sensing & Geographical Information System	X	GEOG/VI/CC/10	6
	Project Work - Practical	XI	GEOG/VI/CC/11	6
	Urban Geography (Option A)	XII(A)	GEOG/VI/CC/12 (A)	6
	Political Geography (Option B)	XII(B)	GEOG/VI/CC/12 (B)	6

Note: Either option A or B can be opted.

PUBLIC ADMINISTRATION

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Elements of Public Administration	I	PA/I/EC/01	6
II	Administrative Theory	II	PA/II/EC/02	6
III	Public Administration in India	III	PA/III/EC/03	6
IV	Public Personnel Administration	IV	PA/IV/EC/04	6
<i>B. Major Core Courses</i>				
V	Bureaucracy and Development	V	PA/V/CC/05	6
	Local Self Government in India	VI	PA/V/CC/06	6
	Economic Administration	VII	PA/V/CC/07	6
	Social Welfare Administration (Option A)	VIII(A)	PA/V/CC/08 (A)	6
	Civil Society and Administration (Option B)	VIII(B)	PA/V/CC/08 (B)	6
VI	Political and Administrative Institutions in Hill Areas of North East India	IX	PA/VI/CC/09	6
	Administration of United Nations	X	PA/VI/CC/10	6
	Office Management in Government	XI	PA/VI/CC/11	6
	Police Administration (Option A)	XII(A)	PA/VI/CC/12 (A)	6
	Rural and Tribal Development Administration (Option B)	XII(B)	PA/VI/CC/12 (B)	6

Note: Either option A or B can be opted.

POLITICAL SCIENCE

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Govt. & Politics of Mizoram	I	POLS/I/EC/01	6
II	Indian Govt. & Politics	II	POLS/II/EC/02	6
III	Major Political Systems	III	POLS/III/EC/03	6
IV	Political Theory	IV	POLS/IV/EC/04	6
<i>B. Major Core Courses</i>				
V	Western Political Thought	V	POLS/V/CC/05	6
	International Relations	VI	POLS/V/CC/06	6
	Public Administration	VII	POLS/V/CC/07	6
	Human Rights (<i>Option A</i>); <i>OR</i>	VIII(A)	POLS/V/CC/08 (A)	6
	Women and Political Process (<i>Option B</i>)	VIII(B)	POLS/V/CC/08 (B)	6
VI	Indian Political Thought	IX	POLS/VI/CC/09	6
	Indian Foreign Policy	X	POLS/VI/CC/10	6
	The United Nations	XI	POLS/VI/CC/11	6
	Political Sociology (<i>Option A</i>)	XII(A)	POLS/VI/CC/12 (A)	6
	South East Asia Politics (<i>Option B</i>)	XII(A)	POLS/VI/CC/12 (B)	6
	South Asia: Economy, Society and Politics (<i>Option C</i>)	XII(C)	POLS/VI/CC/12 (C)	6

Note: Either option A, B or C can be opted.

HISTORY

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	History of Mizoram (Up to the 1960s)	I	HIST/I/EC/01	6
II	History of India upto Maurya Period	II	HIST/II/EC/02	6
III	History of India (Gupta to Sultanate Period)	III	HIST/III/EC/03	6
IV	History of Mughals	IV	HIST/IV/EC/04	6
<i>B. Major Core Courses</i>				
V	Modern Indian - I	V	HIST/V/CC/05	6
	Historiography	VI	HIST/V/CC/06	6
	Early Modern Europe	VII	HIST/V/CC/07	6
	History of North East India (4th to 13th Centuries)(Option A)	VIII(A)	HIST/V/CC/08 (A)	6
	History of North East India (1228-1822)(Option B)	VIII(B)	HIST/V/CC/08 (B)	6
	History of North East India (1822-1986)(Option C)	VIII(C)	HIST/V/CC/08 (C)	6
VI	Modern World History	IX	HIST/VI/CC/9	6
	Contemporary World	X	HIST/VI/CC/10	6
	Modern Indian - II	XI	HIST/VI/CC/11	6

	History of USA (1776-1945) (Option A); OR	XII(A)	HIST/VI/CC/12 (A)	6
	History of Modern South East Asia (Option B); OR	XII(B)	HIST/VI/CC/12 (B)	6
	History of Modern China (Option C); OR	XII(C)	HIST/VI/CC/12 (C)	6
	History of Modern Japan (Option D)	XII(D)	HIST/VI/CC/12 (D)	6

Note: Either option A, B, C or D can be opted.

PHILOSOPHY

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Epistemology and Metaphysics	I	PHL/I/EC/01	6
II	Ethics	II	PHL/II/EC/02	6
III	Logic	III	PHL/III/EC/03	6
IV	History of Western Philosophy	IV	PHL/IV/EC/04	6
<i>B. Major Core Courses</i>				
V	Indian Philosophy - I	V	PHL/V/CC/05	6
	Philosophy of Religion - I	VI	PHL/V/CC/06	6
	Social and Political Philosophy - I	VII	PHL/V/CC/07	6
	Phenomenology and Existentialism - I (Option A)	VIII(A)	PHL/V/CC/08 (A)	6
	Philosophy of Mind - I (Option B)	VIII(B)	PHL/V/CC/08 (B)	6
VI	Indian Philosophy - II	IX	PHL/VI/CC/09	6
	Philosophy of Religion - II	X	PHL/VI/CC/10	6
	Social and Political Philosophy - II	XI	PHL/VI/CC/11	6
	Phenomenology and Existentialism - II (Option A); OR	XII(A)	PHL/VI/CC/12 (A)	6
	Philosophy of Mind - II (Option B)	XII(B)	PHL/VI/CC/12 (B)	6

Note: Either option A or B can be opted.

COMMERCE

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Fundamentals of Accounting	I	BCOM/I/EC/01	6
	Business Organization & Management	II	BCOM/I/EC/02	6
	Computer Application in Business - Theory	III	BCOM/I/EC/03	4
	Computer Application in Business - Practical	IV	BCOM/I/EC/04	2
II	Functional Areas of Business	V	BCOM/II/EC/05	6
	Cost Accounting	VI	BCOM/II/EC/06	6
	Banking and Insurance	VII	BCOM/II/EC/07	6
III	Indian Economy	VIII	BCOM/III/EC/08	6
	Management Accounting	IX	BCOM/III/EC/09	6
	Business Regulatory Framework	X	BCOM/III/EC/10	6
IV	Entrepreneurship - Theory	XI	BCOM/IV/EC/11	4
	Entrepreneurship - Project Work	XII	BCOM/IV/EC/12	2
	Industrial and Company Laws	XIII	BCOM/IV/EC/13	6
	Quantitative Techniques	XIV	BCOM/IV/EC/14	6
<i>B. Major Core Courses</i>				
V	Business Economics	XV	BCOM/V/CC/15	6
	Income Tax Law and Practice	XVI	BCOM/V/CC/16	6
	Indian Financial Systems	XVII	BCOM/V/CC/17	6
	Financial Management (A)	XVIII(A)	BCOM/V/CC/18A	6
	Principles of Marketing (B)	XVIII(B)	BCOM/V/CC/18B	6
	Internet and www (C) - Theory	XVIII(C)	BCOM/V/CC/18C	6
	Internet and www (C) - Practical		BCOM/V/CC/18C-PR	6
VI	Auditing and Corporate Governance	XIX	BCOM/VI/CC/19	6
	Financial Accounting	XX	BCOM/VI/CC/20	6
	Coporate Accounting	XXI	BCOM/VI/CC/21	6
	Capital Market Operations (Option A)	XXII(A)	BCOM/VI/CC/22 (A)	6
	Agricultural amd Rural Marketing (Option B)	XXII(B)	BCOM/VI/CC/22 (B)	6
	Essential of E-Commerce (Option C)	XXII(C)	BCOM/VI/CC/22 (C)	4
	Essential of E-Commerce (Option C)		BCOM/VI/CC/23 (C)	2

HOME SCIENCE

Sem	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Introduction to Family Resource Management - Theory	I	HS/I/EC/01	4
	Introduction to Family Resource Management - Practical		HS/I/EC/02	2
	Chemistry - Theory	II	HS/I/EC/03	4
	Chemistry - Practical		HS/I/EC/04	2
	Textiles- Theory	III	HS/I/EC/05	4
	Textiles - Practical		HS/I/EC/06	2
II	Introduction to Nutrition - Theory	IV	HS/II/EC/07	4
	Introduction to Nutrition - Practical		HS/II/EC/08	2
	Biochemistry - Theory	V	HS/II/EC/09	4
	Biochemistry - Practical		HS/II/EC/10	2
	Extension Education - Theory	VI	HS/II/EC/11	4
	Extension Education - Practical		HS/II/EC/12	2
III	Extension Education & Communication - Theory	VII	HS/III/EC/13	4
	Extension Education & Communication - Practical		HS/III/EC/14	2
	Physiology - Theory	VIII	HS/III/EC/15	4
	Physiology - Practical		HS/III/EC/16	2
	Household Equipment & Consumer Education - Theory	IX	HS/III/EC/17	4
	Household Equipment & Consumer Education - Practical		HS/III/EC/18	2
IV	Human Development- Childhood - Theory	X	HS/IV/EC/19	4
	Human Development- Childhood - Practical		HS/IV/EC/20	2
	Clothing & Textile - Theory	XI	HS/IV/EC/21	4
	Clothing & Textile - Practical		HS/IV/EC/22	2
	Nutrition for the Family - Theory	XII	HS/IV/EC/23	4
	Nutrition for the Family - Practical		HS/IV/EC/24	2
<i>B. Major Core Courses</i>				
V	Family and Child Welfare - Theory	XIII	HS/V/CC/25	4
	Family and Child Welfare - Practical		HS/V/CC/26	2
	Early Childhood Education - Theory	XIV	HS/V/CC/27	4
	Early Childhood Education - Practical		HS/V/CC/28	2
	Garment Design - Theory	XV	HS/V/CC/29	4
	Garment Design - Practical		HS/V/CC/30	2
	Dietetics - Theory (Option A)	XVI	HS/V/CC/31 (A)	4
	Dietetics - Practical (Option A)		HS/V/CC/32 (A)	2
	Food Processing & Preservation Technology- Theory (B)	XVII	HS/V/CC/31 (B)	4

	Food Processing & Preservation Technology - Practical (Option B)		HS/V/CC/32 (B)	2
VI	Child Psychology - Theory	XVIII	HS/VI/CC/33	4
	Child Psychology - Practical		HS/VI/CC/34	2
	Human Development - Adolescence and Adulthood - Theory	XIX	HS/VI/CC/35	4
	Human Development - Adolescence and Adulthood - Practical		HS/VI/CC/36	2
	Housing and Interior Space Management	XX	HS/VI/CC/37	4
	House and Interior Management - Practical		HS/VI/CC/38	2
	Community Development - Theory (Option A)	XXI	HS/VI/CC/39 (A)	4
	Community Development - Practical (Option A)		HS/VI/CC/40 (A)	2
	Management and Practices of Extension Education - Theory (Option B)	XXII	HS/VI/CC/39 (B)	4
	Management and Practices of Extension Education - Practical (Option B)		HS/VI/CC/40 (B)	2

Note: Either Option A or B along with their corresponding practical course can be opted.

CHEMISTRY

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Inorganic Chemistry - Theory	I	CHEM/I/EC/01	4
	Inorganic Chemistry - Practical		CHEM/I/EC/02	2
II	Organic Chemistry-I - Theory	II	CHEM/II/EC/03	4
	Organic Chemistry-II - Practical		CHEM/II/EC/04	2
III	Physical Chemistry-I - Theory	III	CHEM/III/EC/05	4
	Physical Chemistry-I - Practical		CHEM/III/EC/06	2
IV	Analytical Chemistry-I - Theory	IV	CHEM/IV/EC/07	4
	Analytical Chemistry-I - Practical		CHEM/IV/EC/08	2
<i>B. Major Core Courses</i>				
V	Inorganic Chemistry-II - Theory	V	CHEM/V/CC/09	4
	Inorganic Chemistry-II - Practical		CHEM/V/CC/10	2
	Organic Chemistry-II - Theory	VI	CHEM/V/CC/11	4
	Organic Chemistry-II - Practical		CHEM/V/CC/12	2
	Physical Chemistry-II - Theory	VII	CHEM/V/CC/13	4
	Physical Chemistry-II - Practical		CHEM/V/CC/14	2
	Analytical Chemistry (Option A)	VIII	CHEM/V/CC/15 (A)	6
	Industrial Chemistry (Option B)		CHEM/V/CC/15 (B)	6
VI	Inorganic Chemistry-III - Theory	IX	CHEM/VI/CC/16	4
	Inorganic Chemistry-III - Practical		CHEM/VI/CC/17	2

	Organic Chemistry-III - Theory	X	CHEM/VI/CC/18	4
	Organic Chemistry-III - Practical		CHEM/VI/CC/19	2
	Physical Chemistry-III - Theory	XI	CHEM/VI/CC/20	4
	Physical Chemistry-III - Practical		CHEM/VI/CC/21	2
	Material Chemistry (Option A)	XII(A)	CHEM/VI/CC/22 (A)	6
	Natural Products (Option B)	XII(B)	CHEM/VI/CC/22 (B)	6

Note: Either Option A or B along with their corresponding practical course can be opted.

PHYSICS

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Properties of Matter, Oscillation and Acoustics - Theory	I	PHY/I/EC/01	4
	Laboratory - I		PHY/I/EC/02	2
II	Thermodynamics & Mathematical Physics - Theory	II	PHY/II/EC/03	4
	Laboratory - II		PHY/II/EC/04	2
III	Electromagnetism & Optics - Theory	III	PHY/III/EC/05	4
	Laboratory - III		PHY/III/EC/06	2
IV	Atomic, Nuclear Physics & Solid State Physics	IV	PHY/IV/EC/07	4
	Laboratory - IV		PHY/IV/EC/08	2
<i>B. Major Core Courses</i>				
V	Mathematical Physics-II - Theory	V	PHY/V/CC/09	4
	Electronics - I	VI	PHY/V/CC/10	4
	Classical Mechanics and Nuclear Physics	VII	PHY/V/CC/11	4
	Laboratory - V	VIII	PHY/V/CC/12	3
	Laboratory - VI	IX	PHY/V/CC/13	3
	Atomic and Molecular Spectroscopy-Theory (Option A)	X	PHY/V/CC/14 (A)	4
	Laboratory - VII	XI	PHY/V/CC/15	2
	C-Language and Num. Method-Theory (Option B)	XII	PHY/V/CC/14 (B)	4
Laboratory - VIII	XIII	PHY/V/CC/14P	2	
VI	Quantum Mechanics - Theory	XIV	PHY/VI/CC/16	4
	Electromagnetic Theory - Theory	XV	PHY/VI/CC/17	4
	Thermal & Statistical Physics - Theory	XVI	PHY/VI/CC/18	4
	Laboratory - IX	XVII	PHY/VI/CC/19	3
	Laboratory - X	XVIII	PHY/VI/CC/20	3
	Solid State Physics - Theory (Option A)	XIX	PHY/VI/CC/21 (A)	4
	Electronics-II - Theory (Option B)	XX	PHY/VI/CC/21 (B)	4
	Laboratory - XI	XXI	PHY/VI/CC/22	2
Laboratory - XII	XXII	PHY/VI/CC/23	2	

BOTANY

Sem	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Cryptogams - Theory	I	BOT/I/EC/01	4
	Cryptogams - Practical		BOT/I/EC/02	2
II	Phanerogams - Theory	II	BOT/II/EC/03	4
	Phanerogams - Practical		BOT/II/EC/04	2
III	Plant Physiology, Biochemistry , Ecology - Theory	III	BOT/III/EC/05	4
	Plant Physiology, Biochemistry , Ecology - Practical		BOT/III/EC/06	2
IV	Microbiology, Cytology, Genetics, Evolution - Theory	IV	BOT/IV/EC/07	4
	Microbiology, Cytology, Genetics, Evolution - Practical		BOT/IV/EC/08	2
<i>B. Major Core Courses</i>				
V	Fungi, Plant, Pathology, Biostatistics - Theory	V	BOT/V/CC/09	4
	Fungi, Plant, Pathology, Biostatistics - Practical		BOT/V/CC/10	2
	Algae, Lichen, Bryophytes - Theory	VI	BOT/V/CC/11	4
	Algae, Lichen, Bryophytes - Practical		BOT/V/CC/12	2
	Cytogenetics, Plant Breeding, Bioinformatics - Theory	VII	BOT/V/CC/13	4
	Cytogenetics, Plant Breeding, Bioinformatics - Practical		BOT/V/CC/14	2
	Environmental Biology, Ethnobotany - Theory	VIII	BOT/V/CC/15	4
	Environmental Biology, Ethnobotany - Practical		BOT/V/CC/16	2
VI	Pteridophytes, Gymnosperms, Palaeobotany, Palynology - Theory	IX	BOT/VI/CC/17	4
	Pteridophytes, Gymnosperms, Palaeobotany, Palynology - Practical		BOT/VI/CC/18	2
	Angiosperm, Taxonomy, Anatomy, Embryology - Theory	X	BOT/VI/CC/19	4
	Angiosperm, Taxonomy, Anatomy, Embryology - Practical		BOT/VI/CC/20	2
	Plant Metabolism, Biochemistry, Thermodynamics - Theory	XI	BOT/VI/CC/21	4
	Plant Metabolism, Biochemistry, Thermodynamics - Practical		BOT/VI/CC/22	2
	Plant Biotechnology, Experimental Embryology - Theory	XII	BOT/VI/CC/23	4
	Plant Biotechnology, Experimental Embryology - Practical		BOT/VI/CC/24	2

BIOTECHNOLOGY

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Cell Biology and Biomolecules - Theory	I	BIOTECH/I/EC/01	4
	Cell Biology and Biomolecules - Practical		BIOTECH/I/EC/02	2
II	Biochemistry - Theory	II	BIOTECH/II/EC/03	4
	Biochemistry - Practical		BIOTECH/II/EC/04	2
III	Microbiology - Theory	III	BIOTECH/III/EC/05	4
	Microbiology - Practical		BIOTECH/III/EC/06	2
IV	Genetics - Theory	IV	BIOTECH/IV/EC/07	4
	Genetics - Practical		BIOTECH/IV/EC/08	2
<i>B. Major Core Courses</i>				
V	Molecular Biology - Theory	V	BIOTECH/V/CC/09	4
	Molecular Biology - Practical		BIOTECH/V/CC/10	2
	Recombinant DNA Technology - Theory	VI	BIOTECH/V/CC/11	4
	Recombinant DNA Technology - Practical		BIOTECH/V/CC/12	2
	Biostatistics and Bioinformatics - Theory	VII	BIOTECH/V/CC/13	4
	Biostatistics and Bioinformatics - Practical		BIOTECH/V/CC/14	2
	Environmental Biotechnology - Theory	VIII	BIOTECH/V/CC/15	4
	Environmental Biotechnology - Practical		BIOTECH/V/CC/16	2
VI	Plant Biotechnology - Theory	IX	BIOTECH/VI/CC/17	4
	Plant Biotechnology - Practical		BIOTECH/VI/CC/18	2
	Animal Biotechnology - Theory	X	BIOTECH/VI/CC/19	4
	Animal Biotechnology - Practical		BIOTECH/VI/CC/20	2
	Immunology - Theory	XI	BIOTECH/VI/CC/21	4
	Immunology - Practical		BIOTECH/VI/CC/22	2
	Medical Biotechnology - Theory	XII	BIOTECH/VI/CC/23	4
	Medical Biotechnology - Practical		BIOTECH/VI/CC/24	2

ZOOLOGY

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Biosystematics and Biology of Non-chordates - Theory	I	ZOO/I/EC/01	4
	Biosystematics and Biology of Non-chordates - Practical		ZOO/I/EC/02	2
II	Biology of Chordates and Comparative Anatomy - Theory	II	ZOO/II/EC/03	4
	Biology of Chordates and Comparative Anatomy - Practical		ZOO/II/EC/04	2
III	Evolution and Ethology - Theory	III	ZOO/III/EC/05	4
	Evolution and Ethology - Practical		ZOO/III/EC/06	2

IV	Endocrinology and Reproduction Biology - Theory	IV	ZOO/IV/EC/07	4
	Endocrinology and Reproduction Biology - Practical		ZOO/IV/EC/08	2
<i>B. Major Core Courses</i>				
V	Cell Biology - Theory	V	ZOO/V/CC/09	4
	Cell Biology - Practical		ZOO/V/CC/10	2
	Animal Physiology - Theory	VI	ZOO/V/CC/11	4
	Animal Physiology - Practical		ZOO/V/CC/12	2
	Biochemistry - Theory	VII	ZOO/V/CC/13	4
	Biochemistry - Practical		ZOO/V/CC/14	2
	Applied Zoology - Theory (Option A)	VIII(A)	ZOO/V/CC/15 (A)	4
	Applied Zoology - Practical (Option A)		ZOO/V/CC/16 (A)	2
	Entomology - Theory (Option B)	VIII(B)	ZOO/V/CC/15 (B)	4
	Entomology - Practical (Option B)		ZOO/V/CC/16 (B)	2
VI	Molecular Biology and Genetics - Theory	IX	ZOO/VI/CC/17	4
	Molecular Biology and Genetics - Practical		ZOO/VI/CC/18	2
	Developmental Biology - Theory	X	ZOO/VI/CC/19	4
	Developmental Biology - Practical		ZOO/VI/CC/20	2
	Parasitology and Immunology - Theory	XI	ZOO/VI/CC/21	4
	Parasitology and immunology - Practical		ZOO/VI/CC/22	2
	Biotechnology and Bioinformatics - Theory (Option A)	XII(A)	ZOO/VI/CC/23 (A)	4
	Biotechnology and Bioinformatics - Practical (Option A)		ZOO/VI/CC/24 (A)	2
	Animal Ecology and Wildlife - Theory (Option B)	XII(B)	ZOO/VI/CC/23 (B)	4
	Animal Ecology and Wildlife - Practical (Option B)		ZOO/VI/CC/24 (B)	2

Note: Either Option A or B along with their corresponding practical course can be opted.

B.Sc MATHEMATICS

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Calculus	I	MATH/I/EC/01	6
II	Algebra	II	MATH/II/EC/02	6
III	Differential Equations	III	MATH/III/EC/03	6
IV	Vector Calculus and Solid Geometry	IV	MATH/IV/EC/04	6
<i>B. Major Core Courses</i>				
V	Computer Oriented Numerical Analysis	V	MATH/V/CC/05	6
	Real Analysis	VI	MATH/V/CC/06	6
	Complex Analysis	VII	MATH/V/CC/07	6
	Operational Research (Option A)	VIII(A)	MATH/V/CC/08 (A)	6
	Probability Theory (Option B)	VIII(B)	MATH/V/CC/08 (B)	6
	Computer Programming in Fortran - Theory (C)	VIII(C)	MATH/V/CC/08 (C)	6
	Computer Programming in Fortran -Practical (D)	VIII(D)	MATH/V/CC/08 (D)	6
VI	Modern Algebra	IX	MATH/VI/CC/09	6
	Advanced Calculus	X	MATH/VI/CC/10	6
	Mechanics	XI	MATH/VI/CC/11	6
	Astronomy (Option A)	XII(A)	MATH/VI/CC/12 (A)	6
	Elementary Number Theory (B)	XII(B)	MATH/VI/CC/12 (B)	6
	Computer Programming in C - Theory (C)	XII(C)	MATH/VI/CC/12 (C)	6
	Computer Programming in C - Practical (D)	XII(D)	MATH/VI/CC/12 (D)	6

Note: Either Option A, B, C or D can be opted.

STATISTICS

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Descriptive Statistics - Theory	I	STA/I/EC/01	4
	Descriptive Statistics - Practical		STA/I/EC/02	2
II	Probability and Probability Distribution - Theory	II	STA/II/EC/03	4
	Probability and Probability Distribution - Practical		STA/II/EC/04	2
III	Survey Sampling and Indian Official Statistics - Theory	III	STA/III/EC/05	4
	Survey Sampling and Indian Official Statistics - Practical		STA/III/EC/06	2
IV	Statistical Interference-I - Theory	IV	STA/IV/EC/07	4
	Statistical Interference-I - Practical		STA/IV/EC/08	2
<i>B. Major Core Courses</i>				
V	Statistical Interference-II - Theory	V	STA/V/CC/09	4
	Statistical Interference-II - Practical		STA/V/CC/10	2

	Sampling Distribution - Theory	VI	STA/V/CC/11	4
	Sampling Distribution - Practical		STA/V/CC/12	2
	Linear Model and Design of Experiment - Theory	VII	STA/V/CC/13	4
	Linear Model and Design of Experiment - Practical		STA/V/CC/14	2
	Biostatistics - Theory (Option A)	VIII(A)	STA/V/CC/15 (A)	4
	Biostatistics - Practical (Option A)		STA/V/CC/16 (A)	2
	Numerical Methods - Theory (Option B)	VIII(B)	STA/V/CC/15 (B)	4
	Numerical Methods - Practical (Option B)		STA/V/CC/16 (B)	2
VI	Operation Research - Theory	IX	STA/VI/CC/17	4
	Operation Research - Practical		STA/VI/CC/18	2
	Applied Statistics - Theory	X	STA/VI/CC/19	4
	Applied Statistics - Practical		STA/VI/CC/20	2
	Stochastic Processes and Quenching - Theory	XI	STA/VI/CC/21	4
	Stochastic Processes and Quenching - Practical		STA/VI/CC/22	2
	Statistical Computing - Theory (Option A)	XII(A)	STA/VI/CC/23 (A)	4
	Statistical Computing - Practical (Option A)		STA/VI/CC/24 (A)	2
Project Work (Option B)	XII(B)	STA/VI/CC/23 (B)	6	

Note: Either Option A or B along with their corresponding practical course can be opted.

ENVIRONMENTAL SCIENCE

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Fundamentals of Environmental Science - Theory	I	EVS/I/EC/01	4
	Fundamentals of Environmental Science - Practical		EVS/I/EC/02	2
II	Natural Resources - Theory	II	EVS/II/EC/03	4
	Natural Resources - Practical		EVS/II/EC/04	2
III	Environmental Pollution - Theory	III	EVS/III/EC/05	4
	Environmental Pollution - Practical		EVS/III/EC/06	2
IV	Environmental Monitoring and Control Technology - Theory	IV	EVS/IV/EC/07	4
	Environmental Monitoring and Control Technology - Practical		EVS/IV/EC/08	2

<i>B. Major Core Courses</i>				
V	Biodiversity and Sustainable Development - Theory	V	EVS/V/CC/09	4
	Biodiversity and Sustainable Development - Practical		EVS/V/CC/10	2
	Environmental Biology - Theory	VI	EVS/V/CC/11	4
	Environmental Biology - Practical		EVS/V/CC/12	2
	Environmental Chemistry - Theory	VII	EVS/V/CC/13	4
	Environmental Chemistry - Practical		EVS/V/CC/14	2
	Environmental Issues, Geoscience and Remote Sensing - Theory	VIII	EVS/V/CC/15	4
	Environmental Issues, Geoscience and Remote Sensing - Practical		EVS/V/CC/16	2
VI	Environmental Toxicology and Health - Theory	IX	EVS/VI/CC/17	4
	Environmental Toxicology and Health - Practical		EVS/VI/CC/18	2
	Environmental Statistics and Computer Application - Theory	X	EVS/VI/CC/19	4
	Environmental Statistics and Computer Application - Practical		EVS/VI/CC/20	2
	Environmental Assessment and Legislations - Theory	XI	EVS/VI/CC/21	4
	Environmental Assessment and Legislations - Practical		EVS/VI/CC/22	2
	Environmental Management and Protection - Theory	XII	EVS/VI/CC/23	4
	Environmental Management and Protection - Practical & Dissertation		EVS/VI/CC/24	2

BIOCHEMISTRY

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Basic Biochemistry - Theory	I	BCHEM/I/EC/01	4
	Basic Biochemistry - Practical		BCHEM/I/EC/02	2
II	Physiological Chemistry & Metabolism - Theory	II	BCHEM/II/EC/03	4
	Physiological Chemistry & Metabolism - Practical		BCHEM/II/EC/04	2
III	Enzymology and Metabolism - Theory	III	BCHEM/III/EC/05	4
	Enzymology and Metabolism - Practical		BCHEM/III/EC/06	2
IV	Molecular Biology - Theory	IV	BCHEM/IV/EC/07	4
	Molecular Biology - Practical		BCHEM/IV/EC/08	2

ELECTRONICS

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	Electronic Instruments and Circuit Analysis - Theory	I	EL/I/EC/01	4
	Laboratory - I		EL/I/EC/02	2
II	Semiconductor Physics - Theory	II	EL/II/EC/03	4
	Laboratory - II		EL/II/EC/04	2
III	Electronic Devices and Amplifier - Theory	III	EL/III/EC/05	4
	Laboratory - III		EL/III/EC/06	2
IV	Pulse Switching Circuits - Theory	IV	EL/IV/EC/07	4
	Laboratory - IV		EL/IV/EC/08	2
<i>B. Major Core Courses</i>				
V	Transmission Line and Radar System - Theory		EL/V/CC/09	4
	Analog Circuits and Modulation - Theory		EL/V/CC/10	4
	Computer Fundamentals		EL/V/CC/11	4
	Laboratory - V		EL/V/CC/12	3
	Laboratory - VI		EL/V/CC/13	3
	Electronic Instruments - Theory (Option A)		EL/V/CC/14 (A)	4
	Solid State Electronics - Theory (Option B)		EL/V/CC/14 (B)	4
	Project - I		EL/V/CC/15	2
VI	Analog and Digital Electronics - Theory		EL/VI/CC/16	4
	Computer Organization and Microprocessor - Theory		EL/VI/CC/17	4
	Optic Electronic Devices - Theory		EL/VI/CC/18	4
	Laboratory - VII		EL/VI/CC/19	3
	Laboratory - VIII		EL/VI/CC/20	3
	Power Electronic Devices - Theory (Option A)		EL/VI/CC/21 (A)	4
	Fiber Optics and Electronic Communication - Theory (Option B)		EL/VI/CC/21 (B)	4
	Project - II (Practical)		EL/VI/CC/22	2

Note: Either Option A or B along with their corresponding practical course can be opted.

GEOLOGY

Semester	Course Title	Papers	Code	Credits
<i>A. Elective Courses</i>				
I	General & Structural Geology and Mineralogy - Theory	I	GEOL/I/EC/01	4
	General & Structural Geology and Mineralogy - Practical		GEOL/I/EC/02	2
II	Petrology and Geochemistry - Theory	II	GEOL/II/EC/03	4
	Petrology and Geochemistry - Practical		GEOL/II/EC/04	2
III	Stratigraphy and Paleontology-I - Theory	III	GEOL/III/EC/05	4
	Stratigraphy and Paleontology-I - Practical		GEOL/III/EC/06	2
IV	Economic and Applied Geology - Theory	IV	GEOL/IV/EC/07	4
	Economic and Applied Geology - Practical		GEOL/IV/EC/08	2
<i>B. Major Core Courses</i>				
V	Applied and Engineering Geology - Theory	V	GEOL/V/CC/09	4
	Applied and Engineering Geology - Practical		GEOL/V/CC/10	2
	Sedimentology & Sequence Stratigraphy - Theory	VI	GEOL/V/CC/11	4
	Sedimentology & Sequence Stratigraphy - Practical		GEOL/V/CC/12	2
	Igneous & Metamorphic Petrology - Theory	VII	GEOL/V/CC/13	4
	Igneous & Metamorphic Petrology - Practical		GEOL/V/CC/14	2
	Hydrogeology, Oceanography & Environmental Geology - Theory (Option A)	VIII(A)	GEOL/V/CC/15 (A)	4
	Hydrogeology, Oceanography & Environmental Geology - Practical (Option A)		GEOL/V/CC/16 (A)	2
	Geology of North East India - Theory (Option B)	VIII(B)	GEOL/V/CC/15 (B)	4
	Geology of North East India - Practical (Option B)		GEOL/V/CC/16 (B)	2
VI	Stratigraphy & Paleontology-II - Theory	IX	GEOL/VI/CC/17	4
	Stratigraphy & Paleontology-II - Practical		GEOL/VI/CC/18	2
	Economic Geology & Mineral Resources of India - Theory	X	GEOL/VI/CC/19	4
	Economic Geology & Mineral Resources of India -Practical		GEOL/VI/CC/20	2
	Dynamics of the Earth & Structural Geology - Theory	XI	GEOL/VI/CC/21	4
	Dynamics of the Earth & Structural Geology - Practical		GEOL/VI/CC/22	2
	Fuel Geology & Mineral Exploration - Theory (Option A)	XII(A)	GEOL/VI/CC/23 (A)	4
	Fuel Geology & Mineral Exploration - Practical (Option A)		GEOL/VI/CC/24 (A)	2
	Environmental Geology - Theory (Option B)	XII(B)	GEOL/VI/CC/23 (B)	4
	Environmental Geology - Practical (Option B)		GEOL/VI/CC/24 (B)	2

