

ENVIRONMENTAL STUDIES

Credits: 4

Course Code: AEECC1

COURSE TITLE: FUNDAMENTALS OF ENVIRONMENTAL STUDIES

Lectures – 80

Unit 1: Basic of Environmental Studies (06)

Definition, Nature, Scope and Importance; Components of environment: Environmental education

Unit 2: Natural Resources: Renewable & Non-renewable Resources (15)

Nature and natural resources their conservation and associated problems:

- Forest resources: Uses, types and importance, Joint Forest Management & Tribal population, Deforestation and its effects
- Water resources: Distribution of water on Earth; Use, over exploitation of surface and ground water; Dams: Benefits and problems; Flood and Drought
- Mineral resources: Mineral resources in India; Use and exploitation, Social impacts of mining
- Food resources: World food problems and food insecurities.
- Energy resources: Renewable and Non-renewable energy sources; Use of alternate energy sources - Case studies
- Land resources: Land as a resource; Land degradation, landslides, soil erosion, desertification
- Use of resources for sustainable development

Unit 3: Ecology & Ecosystems (12)

Concept of ecology, Population ecology, Community ecology

- Concept of an ecosystem, different types of ecosystem
- Food chains, food webs and ecological succession
- Energy flow in the ecosystem and energy flow models

Unit 4: Biodiversity & Conservation (12)

- Biodiversity: Levels of biological diversity
- Values of biodiversity
- Hot-Spots of biodiversity, Mega-biodiversity countries
- Threat to biodiversity
- Threatened and endemic species of India
- Conservation of biodiversity (*In-situ* and *Ex-situ*)
- Ecosystem services: Ecological, Economical, Social, Ethical, Aesthetical and Informational values

Unit 5: Environmental Pollution & Management

(12)

(a) Nature, Causes, Effects and Control measures of –

- (i) Air pollution
- (ii) Water pollution
- (iii) Soil pollution
- (iv) Noise pollution
- v) Nuclear hazards

(b) Fireworks Pollution: Definition, Composition/Ingredients, effects, monitoring strategies

- Solid waste management: Causes, effects and disposal methods; Management of biomedical and municipal solid wastes
- Disaster management: Floods, Earthquake, Cyclone and Landslides

Unit 6: Environmental Policies & Practices

(15)

- Constitutional Provisions for protecting environment- Articles 48(A), 51 A (g)
- Environmental Laws: The Environment (Protection) Act, 1986; The Air (Prevention and Control of Pollution) Act, 1981; The Water (Prevention and Control of Pollution) Act 1974; Forest (Conservation) Act, 1980
- The wildlife Protection Act, 1972
- Climate change, Global warming, ENSO, Acid rain, Ozone layer depletion; Montreal and Kyoto Protocols

Unit 7: Human Communities & Environment

(08)

- Human population growth; Impacts on environment
- Population explosion – Family Welfare Programme
- Environment and human health: Concept of health and disease; Common communicable and Non- communicable diseases; Public awareness
- Environment movements in India: Chipko Movements, Silent Valley Movement, Movements in Karnataka

Unit 8: Field Work Report/Project Report/Term paper (based on any one of the following topics and to be evaluated by internal teachers only)

- Environmental assets - River/Forest/Grassland/Hill/Mountain *etc.*
- Environmental pollution - Urban/Rural/Industrial/Agricultural
- Study of common Plants/Insect /Birds/Wild life *etc.*
- Study of simple ecosystems: Pond/River/Hill slope *etc.*
- Municipal solid waste management and handling.

B.A. Honours in Bengali

There will be six semesters in the three years B.A. Honours in Bengali. The curriculum consists 14 core courses (CC), 2 Ability Enhancement Compulsory Courses (AECC), 2 Skill Enhancement Courses (SEC) and 4 Discipline Specific Elective (DSE) courses and 4 Generic Elective (GE) courses.

Semester - I

Course Title	Course Type	Credit	Marks
বাংলা সাহিত্যের ইতিহাস(প্রাচীন ও মধ্যযুগ) Bangla SahityerItihash (Prachin & Madhyayug)	CC-1	6	75
ছন্দ, অলঙ্কার, Chhando, Alankar	CC-2	6	75
Any discipline other than Bengali	GE-1	6	75
ENVS	AECC-1	4	100
		22	325

Semester - II

Course Title	Course Type	Credit	Marks
বৈষ্ণব পদাবলি, শাক্ত পদাবলি BaishnabPadabali, Shakto Padabali	CC-3	6	75
রামায়ণ, অন্নদামঙ্গল Ramayana, Annadamangal	CC-4	6	75
Any discipline other than Bengali	GE-2	6	75
Communicative English/MIL	AECC-2	2	50
		20	275

Semester - III

Course Title	Course Type	Credit	Marks
বাংলা সাহিত্যের ইতিহাস (১৮০১-১৯৫০) [Bangla SahityerItihas (1801-1950)]	CC-5	6	75
ভাষাতত্ত্ব : (Bhasatattwa)	CC-6	6	75
উনিশ শতকের কাব্য (UnishShatakerKabya)	CC-7	6	75
Any discipline other than Bengali	GE-3	6	75
বাংলা ব্যাকরণ (Bangla Byakaran)	SEC-1	2	50
		26	350

Semester – IV

Course Title	Course Type	Credit	Marks
কবিতা (Kabita)	CC-8	6	75
উপন্যাস (Upanyas)	CC-9	6	75
নাটক (Natak)	CC-10	6	75
Any discipline other than Bengali	GE-4	6	75
রচনা শক্তির নৈপুণ্য (Rachanashaktir Naipunya)	SEC-2	2	50
		26	350

Semester – V

Course Title	Course Type	Credit	Marks
গল্প (Galpo)	CC-11	6	75
প্রবন্ধ ও প্রাচ্য কাব্যতত্ত্ব (Prabandha O Prachya Kabyatattwa)	CC-12	6	75
উনিশ শতকের বাংলা কাব্য ও প্রবন্ধ (Unish Sataker Bangla Kabya O Prabandha)	DSE-1	6	75
উনিশ শতকের বাংলা নাটক ও কথাসাহিত্য (Unish Sataker Bangla Natak O Kathasahitya)	DSE-2	6	75
		24	300

Semester - VI

Course Title	Course Type	Credit	Marks
সংস্কৃত ও ইংরেজি সাহিত্যের ইতিহাস (Sanskrita O Ingreji Sahityer Itihas)	CC-13	6	75
সাহিত্যের রূপ- রীতি ও সংরূপ (Sahityer Rup- Riti O Sangrup)	CC-14	6	75
(বিশ শতকের স্বাধীনতা-পূর্ববর্তী বাংলা কথাসাহিত্য) (BishSataker Swadhinata-purbabarti Bangla Kathasahitya)	DSE-3	6	75
সাহিত্যবিষয়ক প্রবন্ধ ও লোকসাহিত্য (SahityaBisayakPrabandha O Lakasahitya)	DSE-4	6	75
		24	300

B.A. GENERAL IN BENGALI

There will be six semesters in the three years B.A. Program in Bengali. The curriculum consists of 12 Core Courses (CC) of which 4 Core Courses are to be taken from Discipline 1 (Bengali), 4 Core Courses are to be taken from Discipline2 (Any subject other than Bengali), 2 Core Courses are to be taken from English Language(L1), 2 Core Courses are to be taken from Hindi/ MIL (L2), 2 Core Courses are to be taken from AECC- Core. 2 Generic Elective Courses (GE) and 4 Skill Enhancement Courses (SEC) (from the program in the subject selected by the candidate) and 4 Discipline Specific Elective Courses (DSE).

Semester- I

Course Title	Course Type	Credit	Marks
Discipline 1 (Bengali) প্রবন্ধসাহিত্য : বঙ্কিমচন্দ্র ও রবীন্দ্রনাথ: (PrabandhaSahitya : Bankimchandra& Rabindranath)	CC-1A	6	75
Discipline 2(Other than Bengali)	CC-2A	6	75
English Language (L1-1)	CC - (L1-1)	6	75
Environmental Studies	AECC-1	4	100
		22	325

Semester -II

Course Title	Course Type	Credit	Marks
Discipline 1 (Bengali) গল্প : প্রভাতকুমার ও শরৎচন্দ্র (Galpo : Pravat Kumar O Saratchandra)	CC-1B	6	75
Discipline 2(Other than Bengali)	CC-2B	6	75
Hindi/ MIL (L2) Bangla Chhotogalpo	CC-(L2-1)	6	75
Communicative English /MIL	AECC-2	2	50
		20	275

Semester- III

Course Title	Course Type	Credit	Marks
Discipline 1 (Bengali) : বাংলা সাহিত্যের ইতিহাস (Bangla Sahityer Itihas)	CC-1C	6	75
Discipline 2(Other than Bengali)	CC-2C	6	75
English Language (L1-2)	CC-(L1-2)	6	75
বাংলা ব্যাকরণ (Bangla Byakaran)	SEC-1	2	50
		20	275

Semester -IV

Course Title	Course Type	Credit	Marks
Discipline 1 (Bengali) ভাষাতত্ত্ব (Bhasatattwa)	CC-1D	6	75
Discipline 2(Other than Bengali)	CC-2D	6	75
Hindi/ MIL (L ₂ - 2) বাংলা কবিতা (BanglaKabita)	CC-(L ₂ -2)	6	75
রচনাশক্তির নৈপুণ্য (Rachanashaktir Naipunya)	SEC-2	2	50
		20	275

Semester- V

Course Title	Course Type	Credit	Marks
Discipline 1 (Bengali) উনিশ শতকের বাংলা উপন্যাস (Unish Shataker Bangla Upanyas) OR, উনিশ শতকের বাংলা গল্প (Unish Shataker Bangla Galpo)	DSE-1A	6	75
Discipline 2(Other than Bengali)	DSE-2A	6	75
উনিশ শতকের বাংলা প্রবন্ধ (Unis Shataker Bangla Prabandha)	GE- 1	6	75
প্রবন্ধ ও প্রতিবেদন রচনা (Prabandha O Pratibedan Rachana)	SEC-3	2	50
		20	275

Semester -VI

Course Title	Course Type	Credit	Marks
Discipline 1 (Bengali) উনিশ শতকের বাংলা নাটক (Unish Shataker Bangla Natak) OR, উনিশ শতকের বাংলা প্রবন্ধ (Unish Shataker Bangla Prabandha)	DSE-1B	6	75
Discipline 2 (Other than Bengali)	DSE-2B	6	75
উনিশ শতকের বাংলা ভ্রমণসাহিত্য ও চিঠিপত্র (Unis Shataker Bangla Bhramansahitya O Chithipatra)	GE-2	6	75
ব্যবহারিক বাংলা চর্চা ও অনুবাদচর্চা (ByabaharikBanglaCharcha O AnubadCharcha)	SEC-4	2	50
		20	275

THE UNIVERSITY OF BURDWAN



Burdwan-713104, West Bengal

**SYLLABUS FOR B.A. HONOURS PROGRAMME
IN
ENGLISH
UNDER SEMESTER WITH CBCS
(Effective from 2017- 18)**

Only ticked courses are chosen for reading and evaluation

ND stands for non-detailed study

Type	Credits	Number of Courses	Total credits
CC	6 credits per Course (5 theory, 1 tutorial)	14	84
DSE	6 credits per Course (5 theory, 1 tutorial)	4	24
GE [any discipline other than English]	6 credits per Course (5 theory, 1 tutorial)	4	24
AEC	AECC 1 – 4 credits, AECC 2 – 2 Credits	2	6
SEC	2 credits per paper	2	4
Total			142

CORE COURSE (CC)

- ✓ CC1: Indian Classical Literature
- ✓ CC2: European Classical Literature
- ✓ CC3: Indian Writing in English
- ✓ CC4: British Poetry, Drama (16th – 17th Centuries), and Rhetoric & Prosody
- ✓ CC5: American Literature
- ✓ CC6: Popular Literature
- ✓ CC7: British Poetry and Drama (17th – 18th Centuries)
- ✓ CC8: British Literature (18th Century)
- ✓ CC9: British Romantic Literature
- ✓ CC10: British Literature (19th Century)
- ✓ CC11: Women's Writing
- ✓ CC12: British Literature (Early 20th Century)
- ✓ CC13: Modern European Drama
- ✓ CC14: Postcolonial Literatures

DISCIPLINE SPECIFIC ELECTIVE (DSE)

- ✓ DSE1: Modern Indian Writing in English Translation OR Travel Writing
- ✓ DSE2: Partition Literature OR British Literature: Post-WWII
- ✓ DSE3: Literary Theory OR Research Methodology
- ✓ DSE4: Literary Criticism and History of the English Language OR Literature of the Indian Diaspora

GENERIC ELECTIVE (GE) [For learners from other discipline(s)]

- ✓ GE1 : Poetry & Short Story
- ✓ GE2 : Essay, Drama and Novel
- ✓ GE3 : Contemporary India: Women and Empowerment
- ✓ GE4 : Academic Writing and Composition

ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)

- ✓ AECC - 1: Environmental Studies(to follow ENVIS syllabus)
- ✓ AECC - 2: Communicative English / MIL

SKILL ENHANCEMENT COURSE (SEC)

- ✓ SEC1: Translation OR Creative Writing
- ✓ SEC2: ELT OR Film Studies

**B.A. Honours Programme in English under CBCS
Structure at a Glance**

Semester	Courses	Course type	Credit	Full Marks
Sem.- I	CC-I	Core Course	6	75
	CC-II	Core Course	6	75
	GE- 1	Interdisciplinary(other than English)	6	75
	ENVS	AECC 1	4	100
Sem.- II	CC-III	Core Course	6	75
	CC-IV	Core Course	6	75
	GE-2	Interdisciplinary(other than English)	6	75
	Communicative English/ MIL	AECC	2	50
Sem.-III	CC-V	Core Course	6	75
	CC-VI	Core Course	6	75
	CC-VII	Core Course	6	75
	GE-3	Interdisciplinary(other than English)	6	75
	SEC- 1	Skill based	2	50
Sem.-IV	CC-VIII	Core Course	6	75
	CC-IX	Core Course	6	75
	CC-X	Core Course	6	75
	GE-4	Interdisciplinary(other than English)	6	75
	SEC- 2	Skill based	2	50
Sem.-V	CC-XI	Core Course	6	75
	CC-XII	Core Course	6	75
	DSE- 1	Discipline Specific Elective	6	75
	DSE- 2	Discipline Specific Elective	6	75
Sem.-VI	CC-XIII	Core Course	6	75
	CC-XIV	Core Course	6	75
	DSE- 3	Discipline Specific Elective	6	75
	DSE- 4	Discipline Specific Elective	6	75

THE UNIVERSITY OF BURDWAN



Syllabus for B. A. General Programme

in

English

UNDER SEMESTER WITH CBCS

(Effective from 2017- 18)

Type	Credits	Number of Courses	Total Credits
CC	6 Credits per Course (5 theory, 1 tutorial)	12	72
DSE	6 Credits per Course (5 theory, 1 tutorial)	4	24
GE	6 Credits per Course (5 theory, 1 tutorial)	2	12
AEC	AECC 1 – 4 Credits, AECC 2 – 2 Credits	2	6
SEC	2 Credits per Course	4	8
Total			122

CORE COURSE (CC)

CC1A: Poetry & Short Story

CC1B: Essay, Drama & Novel

CC1C: Contemporary India: Women and Empowerment

CC1D: Academic Writing and Composition

Core Language (L1/1): Language, Variety and Stylistics

Core Language: (L1/2): Language, Imagination & Creativity

DISCIPLINE SPECIFIC ELECTIVE (DSE)

DSE1: British Literature OR Environment & Literature

DSE2: Indian Literature in Translation OR Literary Cross Currents

GENERIC ELECTIVE (GE) [For learners from other discipline(s)]

GE1: Gender & Human Rights

GE2: Environment & Literature

ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)

AECC - 1: Environmental Studies (to follow ENVS syllabus)

AECC - 2: Communicative English

SKILL ENHANCEMENT COURSE (SEC)

SEC1: Translation Studies OR Creative Writing

SEC2: ELT OR Film Studies

SEC3: Technical Writing OR Business Communication

SEC4: Soft Skills OR Spoken English

**B.A. General Programme in English under CBCS
Structure at a Glance**

Semester	Courses	Course type	Credit	Full Marks
Sem.- I	Discipline- 1 (English)	Core Course (CC-1A)	6	75
	Discipline- 2 (other than Eng.)	Core Course	6	75
	English Language	Core Language (L ₁ -1)	6	75
	ENVS	AECC-1	4	100
Sem.- II	Discipline- 1 (English)	Core Course (CC-1B)	6	75
	Discipline- 2 (other than Eng.)	Core Course	6	75
	Hindi/MIL	Core Language (L ₂ -1)	6	75
	Communicative English/ MIL	AECC-2	2	50
Sem.-III	Discipline- 1 (English)	Core Course (CC-1C)	6	75
	Discipline-2(other than Eng.)	Core Course	6	75
	English Language	Core Language (L ₁ -2)	6	75
	Skill Enhancement Course	SEC-1	2	50
Sem.-IV	Discipline- 1 (English)	Core Course (CC-1D)	6	75
	Discipline-2(other than Eng.)	Core Course	6	75
	Hindi/MIL	Core Language (L ₂ -2)	6	75
	Skill Enhancement Course	SEC-2	2	50
Sem.-V	Discipline Specific Course (English)	DSE- 1A	6	75
	Discipline Specific Course	DSE- 2A	6	75
	Generic Elective (other than English)	GE-1(Interdisciplinary)	6	75
	Skill Enhancement Course	SEC-3	2	50
Sem.-VI	Discipline Specific Course(English)	DSE- 1B	6	75
	Discipline Specific Course	DSE- 2B	6	75
	Generic Elective (other than English)	GE-2 (Interdisciplinary)	6	75
	Skill Enhancement Course	SEC- 4	2	50

THE UNIVERSITY OF BURDWAN



Burdwan-713104, West Bengal

**SYLLABUS FOR B.A. HONOURS PROGRAMME
IN
SANSKRIT
UNDER SEMESTER WITH CBCS
(Effective from 2017- 18)**

Type	Credits	Number of Courses	Total credits
CC	6 credits per Course (5 theory, 1 tutorial)	14	84
DSE	6 credits per Course (5 theory, 1 tutorial)	4	24
GE [any discipline other than Sanskrit]	6 credits per Course (5 theory, 1 tutorial)	4	24
AEC	AECC 1 – 4 credits, AECC 2 – 2 Credits	2	6
SEC	2 credits per paper	2	4
Total			142

CORE COURSE (CC)

- ✓ CC1: CLASSICAL SANSKRIT LITERATURE POETRY
- ✓ CC2: CRITICAL SURVEY OF SANSKRIT LITERATURE
- ✓ CC3: CLASSICAL SANSKRIT LITERATURE PROSE
- ✓ CC4: SELF MANAGEMENT IN GITA
- ✓ CC5: CLASSICAL SANSKRIT LITERATURE DRAMA
- ✓ CC6: POETICS AND LITERARY CRITICISM
- ✓ CC7: INDIAN SOCIAL INSTITUTION AND POLITY
- ✓ CC8: INDIAN EPIGRAPHY AND CHRONOLOGY
- ✓ CC9: MODERN SANSKRIT LITERATURE
- ✓ CC10: SANSKRIT AND WORLD LITERATURE
- ✓ CC11: VEDIC LITERATURE
- ✓ CC12: SANSKRIT GRAMMAR
- ✓ CC13: INDIAN ONTOLOGY AND EPISTEMIOLOGY
- ✓ CC14: SANSKRIT COMPOSITION AND COMMUNICATION

DISCIPLINE SPECIFIC ELECTIVE (DSE)

- ✓ DSE1: DRAMATURGY OR MAXIMS IN SANSKRIT LANGUAGE
- ✓ DSE2: ELEMENTS OF LINGUISTICS OR TECHNIQUE OF SANSKRIT LANGUAGE
- ✓ DSE3: FUNDAMENTALS OF AYURVEDA OR ENVIRONMENTAL AWARENESS IN SANSKRIT
- ✓ DSE4: ART OF BALANCED LIVING OR INDIAN SYSTEM OF LOGIC

GENERIC ELECTIVE (GE) [For learners from other discipline(s)]

- ✓ GE1 : SANSKRIT POETRY
- ✓ GE2 : SANSKRIT PROSE
- ✓ GE3 : SANSKRIT DRAMA
- ✓ GE4 : SANSKRIT GRAMMAR

ABILITY ENHANANCEMENT COMPULSORY COURSE (AECC)

- ✓ AECC - 1: Environmental Studies(to follow ENVIS syllabus)
- ✓ AECC - 2: Communicative English / MIL

SKILL ENHANANCEMENT COURSE (SEC)

- ✓ SEC1: BASIC SANSKRIT OR ETHICAL AND MORAL ISSUES IN SANSKRIT
- ✓ SEC2: SPOKEN SANSKRIT OR POLITICAL THOUGHT IN SANSKRIT LITERATURE

**B.A. Honours in Sanskrit under CBCS
Structure at a Glance**

Semester	Courses	Course type	Credit	Full Marks
Sem.- I	CC-I	Core Course	6	75
	CC-II	Core Course	6	75
	GE- 1	Interdisciplinary(other than Sanskrit)	6	75
	ENVS	AECC 1	4	100
Sem.- II	CC-III	Core Course	6	75
	CC-IV	Core Course	6	75
	GE-2	Interdisciplinary(other than Sanskrit)	6	75
	Communicative English/ MIL	AECC	2	50
Sem.-III	CC-V	Core Course	6	75
	CC-VI	Core Course	6	75
	CC-VII	Core Course	6	75
	GE-3	Interdisciplinary(other than Sanskrit)	6	75
	SEC- 1	Skill based	2	50
Sem.-IV	CC-VIII	Core Course	6	75
	CC-IX	Core Course	6	75
	CC-X	Core Course	6	75
	GE-4	Interdisciplinary(other than Sanskrit)	6	75
	SEC- 2	Skill based	2	50
Sem.-V	CC-XI	Core Course	6	75
	CC-XII	Core Course	6	75
	DSE- 1	Discipline Specific Elective	6	75
	DSE- 2	Discipline Specific Elective	6	75
Sem.-VI	CC-XIII	Core Course	6	75
	CC-XIV	Core Course	6	75
	DSE- 3	Discipline Specific Elective	6	75
	DSE- 4	Discipline Specific Elective	6	75

THE UNIVERSITY OF BURDWAN



Syllabus for B. A. General Programme

in

Sanskrit

UNDER SEMESTER WITH CBCS

(Effective from 2017- 18)

Type	Credits	Number of Courses	Total Credits
CC	6 Credits per Course (5 theory, 1 tutorial)	12	72
DSE	6 Credits per Course (5 theory, 1 tutorial)	4	24
GE	6 Credits per Course (5 theory, 1 tutorial)	2	12
AEC	AECC 1 – 4 Credits, AECC 2 – 2 Credits	2	6
SEC	2 Credits per Course	4	8
Total			122

CORE COURSE (CC)

CC1A: SANSKRIT POETRY
CC1B: SANSKRIT PROSE
CC1C: SANSKRIT DRAMA
CC1D: SANSKRIT GRAMMAR

DISCIPLINE SPECIFIC ELECTIVE (DSE)

DSE1: EPIGRAPHY OR PHILOSOPHY, RELIGION AND CULTURE IN SANSKRIT TRADITION
DSE2: MAXIMS IN SANSKRIT LANGUAGE OR LITERARY CRITICISM

GENERIC ELECTIVE (GE) [For learners from other discipline(s)]

GE1: INDIAN SOCIAL INSTITUTION AND POLITY OR POLITICAL THOUGHT IN SANSKRIT
GE2: ETHICAL ISSUES IN SANSKRIT LITERATURE OR SANSKRIT METRE AND COMPOSITION

ABILITY ENANCEMENT COMPULSORY COURSE (AECC)

AECC - 1: Environmental Studies (to follow ENV5 syllabus)

AECC - 2: Communicative Sanskrit

SKILL ENHANANCEMENT COURSE (SEC)

SEC1: BASIC ELEMENTS OF AYURVEDA OR YOGASUTRA OF PATANJALI
SEC2: INDIAN THEATRE OR BASIC SANSKRIT PART-I
SEC3: SANSKRIT COMPOSITION OR BASIC SANSKRIT PART-II
SEC4: VEDIC LITERATURE OR MORAL VALUES IN SANSKRIT LITERATURE

**B.A. General Programme in Sanskrit under
CBCS
Structure at a Glance**

Semester	Courses	Course type	Credit	Full Marks
Sem.- I	Discipline- 1 (Sanskrit)	Core Course (CC-1A)	6	75
	Discipline- 2 (other than Sanskrit)	Core Course	6	75
	English Language	Core Language (L ₁ -1)	6	75
	ENVS	AECC-1	4	100
Sem.- II	Discipline- 1 (Sanskrit)	Core Course (CC-1B)	6	75
	Discipline- 2 (other than Sanskrit)	Core Course	6	75
	Hindi/MIL	Core Language (L ₂ -1)	6	75
	Communicative Sanskrit/ MIL	AECC-2	2	50
Sem.-III	Discipline- 1 (Sanskrit)	Core Course (CC-1C)	6	75
	Discipline-2 (other than Sanskrit)	Core Course	6	75
	English Language	Core Language (L ₁ -2)	6	75
	Skill Enhancement Course	SEC-1	2	50
Sem.-IV	Discipline- 1 (Sanskrit)	Core Course (CC-1D)	6	75
	Discipline-2(other than Sanskrit)	Core Course	6	75
	Hindi/MIL	Core Language (L ₂ -2)	6	75
	Skill Enhancement Course	SEC-2	2	50
Sem.-V	Discipline Specific Elective (Sanskrit)	DSE- 1A	6	75
	Discipline Specific Elective(other than Sanskrit)	DSE- 2A	6	75
	Generic Elective (other than Sanskrit)	GE-1(Interdisciplinary)	6	75
	Skill Enhancement Course	SEC-3	2	50
Sem.-VI	Discipline Specific Elective (Sanskrit)	DSE- 1B	6	75
	Discipline Specific Elective(other than Sanskrit)	DSE- 2B	6	75
	Generic Elective (other than Sanskrit)	GE-2 (Interdisciplinary)	6	75
	Skill Enhancement Course	SEC- 4	2	50

UG Syllabus BA (Hons.) CBCS Pattern – 2017

Semester	Courses Offered	Name of the Course/Paper	Credit	Full Marks
	Core Courses (CC)			
Semester-I	CC Paper - I	History of India I (From Earliest Times to 600 AD)	6	75
	CC Paper - II	Social Formations & the Cultural Pattern of the Ancient World	6	75
	Generic Elective (GE) (Students of History Hons. should take Generic Elective Paper-I from other disciplines) However Hons. students belonging to other disciplines have to take the following GE Paper if they choose History as Generic Elective)			
	GE Paper - I	History of India From Earliest Times to 300 AD)	6	75
	Ability Enhancement Courses (AEC)			
	AECC Paper - I	Environmental Studies	4	100
Total	4		22	325

Semester	Courses Offered	Name of the Course/Paper	Credit	Full Marks
	Core Courses (CC)			
Semester - II	CC Paper - III	History of India II (600 - 1206 AD)	6	75
	CC Paper - IV	Social Formation and Cultural Pattern of the Medieval World	6	75
	Generic Elective (GE) Generic Elective (GE) (Students of History Hons. should take Generic Elective Paper – II from other discipline) However Hons. students belonging to other disciplines have to take the following GE Paper if they choose History as Generic Elective)			
	GE Paper - II	History of India From 300 to 1206 AD)	6	75
	Ability Enhancement Courses (AEC)			
	AECC Paper - II	Communicative English/MIL	2	50
Total	4		20	275

Semester	Courses Offered	Name of the Course/Paper	Credit	Full Marks
	Core Courses (CC)			
Semester - III	CC Paper - V	History of India III (1206 - 1525 AD)	6	75
	CC Paper - VI	Rise of Modern West – I (15 th & 16 th Centuries)	6	75
	CC Paper - VII	History of India IV (1526 - 1757 AD)	6	75

	Generic Elective (GE) Generic Elective (GE) (Students of History Hons. should take Generic Elective Paper – III from other discipline) However Hons. students belonging to other disciplines have to take the following GE Paper if they choose History as Generic Elective)			
	GE Paper - III	History of India From 1206- 1707 AD)	6	75
	Skill Enhancement Courses (SEC)			
	SEC Paper - I	Archives & Museums in India Or Understanding Heritage	2	50
Total	5		26	350

Semester	Courses Offered	Name of the Course/Paper	Credit	Full Marks
	Core Courses (CC)			
Semester - IV	CC Paper - VIII	Rise of Modern West – II (17 th & 18 th Centuries)	6	75
	CC Paper - IX	History of India - V (1758 - 1857)	6	75
	CC Paper - X	History of India VI (1858 - 1964)	6	75
	Generic Elective (GE) Generic Elective (GE) (Students of History Hons. should take Generic Elective Paper –IV from other discipline) However Hons. students belonging to other disciplines have to take the following GE Paper if they choose History as Generic Elective)			
	GE Paper - IV	History of India From 1707-1950 AD)	6	75
	Skill Enhancement Courses (SEC)			

	SEC Paper - II	Understanding Popular Culture Or Art Appreciation: An introduction to Indian Art	2	50
Total	5		26	350

Semester	Courses Offered	Name of the Course/Paper	Credit	Full Marks
	Core Courses (CC)			
Semester - V	CC Paper - XI	History of Modern Europe I (1789 - 1870)	6	75
	CC Paper - XII	Studying History Writing: Indian & Western	6	75
	Discipline Specific Elective (DSE)			
	DSE Paper - I	Life & Culture in Pre-Colonial Bengal OR History of the United States of America (1776-1864)	6	75
	DSE Paper - II	Life & Culture in Colonial Bengal OR History of the United States of America	6	75

		(1865 - 1945)		
Total	4		24	300

Semester	Courses Offered	Name of the Course/Paper	Credit	Full Marks
	Core Courses (CC)			
Semester - VI	CC Paper - XIII	History of Modern Europe II(1871-1945)	6	75
	CC Paper - XIV	Making of the Contemporary World (1946 – 2000)	6	75
	Discipline Specific Elective (DSE)			
	DSE Paper - III	History of Modern East Asia (1840-1919) OR History of the USSR (1917 - 1945)	6	75
	DSE Paper - IV	History of China & Japan(1919-1949) OR History of the USSR (1945-1964)	6	75
Total	4		24	300

UG Syllabus BA General CBCS Pattern – 2017

Semester	Courses Offered	Name of the Course/Paper	Credit	Full Marks	
Core Courses (CC)					
Semester - I	Discipline - I History CC Paper – I A	History of India From Earliest Times to 300 AD)	6	75	
	Discipline - 2 Other subject CC Paper – 2 A	To be taken from other discipline	6	75	
	Eng. Language (Core Course)	English - I	6	75	
	Ability Enhancement Courses (AECC)				
	AECC Paper - I	Environmental Studies	4	100	
Total	4		22	325	

Semester	Courses Offered	Name of the Course/Paper	Credit	Full Marks	
Core Courses (CC)					
Semester - II	Discipline - I History CC Paper – I B	History of India From 300 to 1206 AD)	6	75	
	Discipline - 2 Other subject CC Paper – 2 B	To be taken from other discipline	6	75	
	Hindi/MIL (Core Course)	Language - 2	6	75	
	Ability Enhancement Core Courses (AECC)				
	AECC Paper - II	Communicative English/ MIL	2	50	
Total	4		20	275	
Semester	Courses Offered	Name of the Course/Paper	Credit	Full Marks	
Core Courses (CC)					
Semester - III	Discipline - I History CC Paper – I (C)	History of India From 1206-1707 AD)	6	75	
	Discipline - 2 Other	To be taken from	6	75	

	subject CC Paper – 2 (C)	other discipline		
	English Language	English - 2	6	75
	Skill Enhancement Courses (AEC)			
	SEC Paper - I	Museums & Archives in India OR Indian History & Culture	2	50
Total	4		20	275

Semester	Courses Offered	Name of the Course/Paper	Credit	Full Marks
	Core Courses (CC)			
Semester - IV	Discipline - I History CC Paper – I D	History of India From 1707 - 1950 AD)	6	75
	Discipline - 2 Other subject CC Paper – 2 D	Social Formations & the Cultural Pattern of the Ancient World	6	75
	Hindi/MIL (Core Course)	Language - 2	6	75
	Skill Enhancement Courses (SEC)			
	SEC Paper - II	Understanding Heritage OR Ethnographic Practices in India: Tradition of Embroidery, Textile making, Knitting, Handicrafts	2	50
Total	4		20	275

Semester	Courses Offered	Name of the Course/Paper	Credit	Full Marks
	Discipline Specific Eledtive (DSE)			
Semester - V	DSE Paper – I A History	Some Aspects of Society & Economy	6	75

		of Modern Europe: (15 th to 18 th Century) OR Political History of Modern Europe: (15 th to 18 th Century)		
	DSE Paper – 2 A Other Subject	To be taken from other discipline	6	75
Generic Elective (GE) For Other Disciplines				
	GE Paper - I	Women’s Studies in India OR Some Perspectives on Women’s Rights in India	6	75
Skill Enhancement Courses (SEC)				
	SEC - III	Understanding Popular Culture OR An Introduction to Archaeology	2	50
Total	4		20	275

Semester	Courses Offered	Name of the Course/Paper	Credit	Full Marks	
Discipline Specific Elective (DSE)					
Semester - VI	DSE Paper – I B History	Some Aspects of European History (1789 - 1945)	6	75	
	DSE Paper – 2 B Other Subject	To be taken from other discipline	6	75	
	Generic Elective (GE) For Other Disciplines				
	GE Paper - II	Gender & Education in India OR History of Indian Journalism	6	75	
Skill Enhancement Courses (SEC)					
	SEC - IV	Art Appreciation : An Understanding to Indian Art Or	2	50	

		Orality & Oral Culture in India		
Total	4		20	275

**COURSE STRUCTURE UNDER CHOICE BASED CREDIT SYSTEM FOR B.Sc. HONOURS
IN GEOLOGY**

Semester-wise course structure

YEAR	SEMESTER	CORE COURSE (CC) (14)	ABILITY ENHANCEMENT COURSE (AECC) (2)	SKILL ENHANCEMENT COURSE (SEC) (2)	DISCIPLINE SPECIFIC ELECTIVE (DSE) (4)	GENERIC ELECTIVE (GE) (4)
FIRST YEAR	I	CC-1. EARTH SYSTEM SCIENCE CC-2. MINERAL SCIENCE	ENVIRONMENTAL STUDIES			GE-1 (Any discipline other than Geology)
	II	CC-3. ELEMENTS OF GEOCHEMISTRY CC-4. STRUCTURAL GEOLOGY	COMMUNICATIVE ENGLISH/MIL			GE-2 (Any discipline other than Geology)
SECOND YEAR	III	CC-5. IGNEOUS PETROLOGY CC-6. SEDIMENTOLOGY CC-7. PALEONTOLOGY		SEC-I (Field Work)		GE-3 (Any discipline other than Geology)
	IV	CC-8. METAMORPHIC PETROLOGY CC-9. PRINCIPLES OF STRATIGRAPHY AND PRECAMBRIAN STRATIGRAPHY OF INDIA CC-10. PHANEROZOIC STRATIGRAPHY OF INDIA		SEC-II (Field Work)		GE-4 (Any discipline other than Geology)
THIRD YEAR	V	CC-11. HYDROGEOLOGY CC-12. ECONOMIC GEOLOGY			DSE – 1 DSE - 2	
	VI	CC-13. GEOMORPHOLOGY, REMOTE SENSING & GIS CC-14. ENGINEERING GEOLOGY			DSE – 3 DSE - 4	

Detail course structure

SEMESTER	COURSE OPTED	COURSE NAME	CREDIT	MARKS			No. of hours L-T-P Per Week
				IA	ESE	TOTAL	
I	Ability Enhancement: compulsory course – 1	Environmental Studies	4	--	100	100	
	Core Course – 1	Earth System Science (Th)	4	15	40	75	4-0-0
		Practical	2		20		0-0-4
	Core Course – 2	Mineral Science (Th)	4	15	40	75	4-0-0
		Practical	2		20		0-0-4
Generic Elective – 1	GE – 1	6	As to be prescribed by other discipline		75		
Total			20		325		
II	Ability Enhancement: compulsory course - 2	Communicative English/ MIL	2	--	50	50	
	Core Course - 3	Elements of Geochemistry (Th)	4	15	40	75	4-0-0
		Practical	2		20		0-0-4
	Core Course - 4	Structural Geology (Th)	4	15	40	75	4-0-0
		Practical	2		20		0-0-4
Generic Elective – 2	GE - 2	6	As to be prescribed by other discipline		75		
Total			20		275		
III	Core Course - 5	Igneous Petrology (Th)	4	15	40	75	4-0-0
		Practical	2		20		0-0-4
	Core Course - 6	Sedimentology (Th)	4	15	40	75	4-0-0
		Practical	2		20		0-0-4
	Core Course - 7	Paleontology (Th)	4	15	40	75	4-0-0
		Practical	2		20		0-0-4
Generic Elective - 3	GE - 3	6	As to be prescribed by other discipline		75		
Skill Enhancement Course - 1	Field Work	2	10	40	50	0-0-4	
Total			26		350		
IV	Core Course - 8	Metamorphic Petrology (Th)	4	15	40	75	4-0-0
		Practical	2		20		0-0-4
	Core Course - 9	Principles of Stratigraphy and Precambrian Stratigraphy of India (Th)	4	15	40	75	4-0-0
		Practical	2		20		0-0-4
	Core Course - 10	Phanerozoic Stratigraphy of India (Th)	4	15	40	75	4-0-0
		Practical	2		20		0-0-4
	Generic Elective - 4	GE - 4	6	As to be prescribed by other discipline		75	
Skill Enhancement Course - 2	Field Work	2	10	40	50	0-0-4	
Total			26		350		

V	Core Course - 11	Hydrogeology (Th)		4	15	40	75	4-0-0	
		Practical		2		20		0-0-4	
	Core Course - 12	Economic Geology (Th)		4	15	40	75	4-0-0	
		Practical		2		20		0-0-4	
	Discipline Specific Elective - 1	DSE - 1	Theory		4	15	40	75	4-0-0
			Practical		2		20		0-0-4
	Discipline Specific Elective - 2	DSE - 2	Theory		4	15	40	75	4-0-0
			Practical		2		20		0-0-4
	Total				24			300	
	VI	Core Course - 13	Geomorphology, Remote Sensing and GIS (Th)		4	15	40	75	4-0-0
Practical			2	20	0-0-4				
Core Course - 14		Engineering Geology (Th)		4	15	40	75	4-0-0	
		Practical		2		20		0-0-4	
Discipline Specific Elective - 3		DSE - 3	Theory		4	15	40	75	4-0-0
			Practical		2		20		0-0-4
Discipline Specific Elective - 4		DSE - 4	Theory		4	15	40	75	4-0-0
			Practical		2		20		0-0-4
Total				24			300		
TOTAL OF ALL SEMESTERS				142			1900		

COURSE STRUCTURE UNDER CHOICE BASED CREDIT SYSTEM FOR BA GENERAL IN GEOGRAPHY

Semester-wise course structure

SEMESTER	COURSE OPTED	COURSE NAME	CREDIT	MARKS			No. of hours L-T-P (Per week)
				IA	ESE	TOTAL	
I	Ability Enhancement: compulsory course - I	Environmental Studies	4	---	100	100	
	DISCIPLINE 1 (Geography)	Core Course (CC – 1A) Geotectonics and Geomorphology	4	15	40	75	4-0-0
		Practical Scale and Cartography	2		20		0-0-4
	DISCIPLINE 2 (other subject)	Core Course(CC – 2A) As to be offered by other department	6	15	60	75	
	(English Language)	Core Language (L ₁ -1)	6	15	60	75	5-1-0
Total			22		325		
II	Ability Enhancement: compulsory course - 2	Communicative English/ MIL	2	---	50	50	
	DISCIPLINE 1 (Geography)	Core Course (CC – 1B) Climatology, Soil and Biogeography	4	15	40	75	4-0-0
		Practical Surveying and Levelling	2		20		0-0-4
	DISCIPLINE 2 (other subject)	Core Course (CC – 2B) As to be offered by other department	6	15	60	75	
	(Hindi/ MIL)	Core Language (L ₂ -1)	6	15	60	75	5-1-0
Total			20		275		
III	DISCIPLINE 1 (Geography)	Core Course (CC – 1C) Human Geography	4	15	40	75	4-0-0
		Practical Map Projection and Map Interpretation	2		20		0-0-4
	DISCIPLINE 2 (other subject)	Core Course (CC – 2C) As to be offered by other department	6	15	60	75	
	(English Language)	Core Language (L ₁ -2)	6	15	60	75	5-1-0
	Skill Enhancement Course	SEC- 1 :Computer Basics and Computer Applications OR Remote Sensing	2	10	40	50	
Total			20		275		
IV	DISCIPLINE 1 (Geography)	Core Course (CC- 1D) Environmental Geography	4	15	40	75	4-0-0
		Practical (Field work)	2		20		0-0-4
	DISCIPLINE 2 (other subject)	Core Course (CC – 2D) As to be offered by other department	6	15	60	75	
	(Hindi/ MIL)	Core Language (L ₂ -2)	6	15	60	75	5-1-0
	Skill Enhancement Course	SEC- 2 : Regional Planning and Development OR GIS based Project Report (Practical)	2	10	40	50	
Total			20		275		

V	DISCIPLINE 1 (Geography)	DSE – 1A : Geography of India or Economic Geography	4	15	40	75	4-0-0
		Practical (Field work)	2		20		0-0-4
	DISCIPLINE 2 (other subject)	DSE – 2A : As to be offered by other department	6	15	60	75	
	Generic Elective	GE-1 Any discipline other than Core Disciplines including Core Languages	6	15	60	75	
	Skill Enhancement Course	SEC- 3: Field Techniques and Survey based Project Report (Practical) OR Collection, Mapping and Interpretation of Climate Data	2	10	40	50	
Total			20			275	
VI	DISCIPLINE 1 (Geography)	DSE- 1B : Disaster Management or Geography of Tourism	4	15	40	75	4-0-0
		Practical (Field work)	2		20		0-0-4
	DISCIPLINE 2 (other subject)	DSE – 2B: As to be offered by other department	6	15	60	75	
	Generic Elective	GE-2 Any discipline other than core Disciplines including Core Languages	6	15	60	75	
	Skill Enhancement Course	SEC- 4 : Collection, Mapping and Interpretation of Pedological Data OR Rocks and Minerals and their megascopic identification	2	10	40	50	
Total			20			275	
TOTAL OF ALL SEMESTERS			122			1700	

COURSE STRUCTURE UNDER CHOICE BASED CREDIT SYSTEM FOR B. Sc. GENERAL IN GEOGRAPHY

Semester-wise course structure

SEMESTER	COURSE OPTED	COURSE NAME	CREDIT	MARKS			No. of hours L-T-P (Per week)
				IA	ESE	TOTAL	
I	Ability Enhancement: compulsory course - I	Environmental Studies	4		100	100	
	DISCIPLINE 1 (Geography)	Core Course (CC – 1A) Geotectonics and Geomorphology	4	15	40	75	4-0-0
		Practical : Scale and Cartography	2		20		0-0-4
	DISCIPLINE 2 (Other Subject)	Core Course (CC – 2A) As to be offered by other department	4	15	40	75	4-0-0
		Practical	2		20		0-0-4
	DISCIPLINE 3 (Other Subject)	Core Course (CC – 3A) As to be offered by other department	4	15	60	75	4-0-0
		Practical As to be offered by other department	2				0-0-4
Total			22		325		
II	Ability Enhancement: compulsory course - 2	Communicative English/ MIL	2		50	50	
	DISCIPLINE 1 (Geography)	Core Course (CC – 1B) Climatology, Soil and Biogeography	4	15	40	75	4-0-0
		Practical : Surveying and Levelling	2		20		0-0-4
	DISCIPLINE 2 (Other Subject)	Core Course (CC – 2B) As to be offered by other department	4	15	40	75	4-0-0
		Practical As to be offered by other department	2		20		0-0-4
	DISCIPLINE 3 (Other Subject)	Core Course (CC – 3B) As to be offered by other department	4	15	60	75	4-0-0
		Practical As to be offered by other department	2				0-0-4
Total			20		275		
III	DISCIPLINE 1 (Geography)	Core Course (CC – 1C) Human Geography	4	15	40	75	4-0-0
		Practical : Map Projection and Map Interpretation	2		20		0-0-4
	DISCIPLINE 2 (Other Subject)	Core Course (CC – 2C) As to be offered by other department	4	15	40	75	4-0-0
		Practical As to be offered by other department	2		20		0-0-4
	DISCIPLINE 3 (Other Subject)	Core Course (CC – 3C) As to be offered by other department	4	15	60	75	4-0-0
		Practical As to be offered by other department	2				0-0-4
Skill Enhancement Course	SEC- 1 :Computer Basics and Computer Applications OR Remote Sensing	2	10	40	50	0-0-4	
Total			20		275		
IV	DISCIPLINE 1 (Geography)	Core Course (CC- 1D) Environmental Geography	4	15	40	75	4-0-0

		Practical (Field work)	2		20		0-0-4	
	DISCIPLINE 2 (Other Subject)	Core Course (CC- 2D)	4	15	40	75	4-0-0	
		As to be offered by other department						
		Practical	2		20		0-0-4	
	DISCIPLINE 3 (Other Subject)	Core Course (CC- 3D)	6	15	60	75	4-0-0	
		As to be offered by other department						
		Practical						
	Skill Enhancement Course	SEC- 2 :: Regional Planning and Development OR GIS based Project Report (Practical)	2	10	40	50	0-0-4	
	Total		20			275		
V	DISCIPLINE 1 (Geography)	DSE – 1A : Geography of India or Economic Geography	4	15	40	75	4-0-0	
		Practical (Field work)	2		20		0-0-4	
	DISCIPLINE 2 (Other Subject)	DSE- 2A : As to be offered by other department	4	15	40	75	4-0-0	
		Practical : As to be offered by other department	2		20		0-0-4	
	DISCIPLINE 3 (Other Subject)	DSE- 3A : As to be offered by other department	6	15	60	75	4-0-0	
		Practical : As to be offered by other department					0-0-4	
	Skill Enhancement Course	SEC- 3: Field Techniques and Survey based Project Report (Practical) OR Collection, Mapping and Interpretation of Climate Data	2	10	40	50	0-0-4	
		Total		20			275	
	VI	DISCIPLINE 1 (Geography)	DSE- 1B : Disaster Management or Geography of Tourism)	4	15	40	75	4-0-0
Practical (Field work)			2	20		0-0-4		
DISCIPLINE 2 (Other Subject)		DSE- 2B : As to be offered by other department	4	15	40	75	4-0-0	
		Practical : As to be offered by other department	2		20		0-0-4	
DISCIPLINE 3 (Other Subject)		DSE- 3B : As to be offered by other department	6	15	60	75	4-0-0	
		Practical : As to be offered by other department					0-0-4	
Skill Enhancement Course		SEC- 4 : Collection, Mapping and Interpretation of Pedological Data OR Rocks and Minerals and their megascopic identification	2	10	40	50	0-0-4	
		Total		20			275	
		TOTAL OF ALL SEMESTERS		122			1700	

Structure of B.A. Honours in Political Science under Semester with CBCS

Semester	Course Title	Course Type	Credit	Full Marks
Sem-I	CC -1 : WESTERN POLITICAL THOUGHT	Core Course	6	75
	CC- 2 : POLITICAL THEORY	Core Course	6	75
	GE - 1 (Any discipline other than Pol. Sc.)	Generic Elective	6	75
	ENVS	AECC-1	4	100
Sem-II	CC - 3 : INDIAN POLITICAL THOUGHT	Core Course	6	75
	CC - 4 : INDIAN GOVERNMENT AND POLITICS	Core Course	6	75
	GE - 2 (Any discipline other than Pol. Sc.)	Generic Elective	6	75
	Communicative English/MIL	AECC-2	2	50
Sem-III	CC -5 : COMPARATIVE GOVERNMENT AND POLITICS	Core Course	6	75
	CC - 6 : PUBLIC ADMINISTRATION- Basic Theories	Core Course	6	75
	CC -7 : LOCAL GOVERNMENT IN INDIA	Core Course	6	75
	GE - 3 (Any discipline other than Pol. Sc.)	Generic Elective	6	75
	Skill Enhancement Course	SEC-1	2	50
Sem-IV	CC - 8 : INTERNATIONAL RELATIONS	Core Course	6	75
	CC -9 : SOCIOLOGY AND POLITICS	Core Course	6	75
	CC- 10 INTERNATIONAL ORGANIZATIONS	Core Course	6	75
	GE - 4 (Any discipline other than Pol. Sc.)	Generic Elective	6	75
	Skill Enhancement Course	SEC-2	2	50
Sem-V	CC-11 : SOCIAL MOVEMENTS IN INDIA	Core Course	6	75
	CC-12 : ELEMENTARY RESEARCH METHODS IN POLITICAL SCIENCE	Core Course	6	75
	Discipline Specific Elective	DSE-1	6	75
	Discipline Specific Elective	DSE-2	6	75
Sem-VI	CC-13 : INDIAN FOREIGN POLICY	Core Course	6	75
	CC-14 :CONTEMPORARY ISSUES IN INDIA	Core Course	6	75
	Discipline Specific Course	DSE-3	6	75
	Discipline Specific Course	DSE-4	6	75

CORE COURSE (CC) : 6 CREDITS EACH

CC-1 : WESTERN POLITICAL THOUGHT

CC-2 : POLITICAL THEORY

CC-3 : INDIAN POLITICAL THOUGHT

CC-4 : INDIAN GOVERNMENT AND POLITICS

CC -5 : COMPARATIVE GOVERNMENT AND POLITICS

CC -6 : PUBLIC ADMINISTRATION – BASIC THEORIES

CC-7 : LOCAL GOVERNMENT IN INDIA

CC-8 : INTERNATIONAL RELATIONS

CC-9 : SOCIOLOGY AND POLITICS

CC-10 : INTERNATIONAL ORGANIZATIONS

CC-11 : SOCIAL MOVEMENTS IN INDIA

CC-12 : ELEMENTARY RESEARCH METHODS IN POLITICAL SCIENCE

CC-13 : INDIAN FOREIGN POLICY

CC-14 : CONTEMPORARY ISSUES IN INDIA

DISCIPLINE SPECIFIC ELECTIVE (DSE)

DSE-1 : SELECT COMPARATIVE POLITICAL THOUGHT Or,

ADVANCED POLITICAL THEORY

DSE-2 : DEMOCRACY AND DECENTRALIZED GOVERNANCE Or,

UNDERSTANDING GOOD GOVERNANCE

DSE-3 : PUBLIC POLICY: CONCEPTS AND IMPLEMENTATION IN INDIA Or,

LOCAL GOVT. IN WEST BENGAL

DSE-4 : UNDERSTANDING GLOBALIZATION Or,

POLITICAL ECONOMY OF INTERNATIONAL RELATIONS

GENERIC ELECTIVE (FOR THE STUDENTS OF OTHER DISCIPLINES)

GE-1 :WESTERN POLITICAL THOUGHT

GE-2 :POLITICAL THEORY

GE-3: INDIAN POLITICAL THOUGHT

GE-4: INDIAN GOVERNMENT AND POLITICS

SKILL ENHANCEMENT COURSES(SEC)

SEC-1 : LEGISLATIVE SUPPORT Or, PEACE AND CONFLICT RESOLUTION.

SEC-2 : PUBLIC OPINION AND SURVEY RESEARCH Or, DEMOCRATIC AWARENESS
THROUGH LEGAL LITERACY.

Structure of B.A. General in Political Science under Semester with CBCS

Semester	Name of the Courses	Course Type	Credit	Full Marks
Sem-I	Discipline-1(Pol. Sc.)	Core Course(CC-1)	6	75
	Discipline-2(other than Pol. Sc.)	Core Course(CC-1)	6	75
	English Language	Core Course(L ₁ -1)	6	75
	ENVS	AECC - 1	4	100
Sem-II	Discipline-1(Pol. Sc.)	Core Course(CC-2)	6	75
	Discipline-2(other than Pol. Sc.)	Core Course(CC-2)	6	75
	Hindi/MIL	Core Course(L ₂ -1)	6	75
	Communicative English/MIL	AECC - 2	2	50
Sem-III	Discipline-1(Pol. Sc.)	Core Course(CC-3)	6	75
	Discipline-2(other than Pol. Sc.)	Core Course(CC-3)	6	75
	English Language	Core Course(L ₁ -2)	6	75
	Skill Enhancement Course	SEC - 1	2	50
Sem-IV	Discipline-1(Pol Sc)	Core Course(CC-4)	6	75
	Discipline-2(other than Pol sc)	Core Course(CC-4)	6	75
	Hindi/MIL	Core Course(L ₂ -2)	6	75
	Skill Enhancement Course	SEC - 2	2	50
Sem-V	Discipline Specific Elective	DSE-1A	6	75
	Discipline Specific Elective	DSE-2A	6	75
	Generic Elective (other than core Disciplines including Core Languages)	GE - 1(interdisciplinary)	6	75
	Skill Enhancement Course	SEC - 3	2	50
Sem-VI	Discipline Specific Elective	DSE-1B	6	75
	Discipline Specific Elective	DSE-2B	6	75
	Generic Elective (other than Core Disciplines including Core Languages)	GE - 2(interdisciplinary)	6	75
	Skill Enhancement Course	SEC - 4	2	50

CORE COURSES (CC) : 6 CREDITS EACH

CC- 1A : WESTERN POLITICAL THOUGHT

CC – 1B : POLITICAL THEORY

CC – 1C : INDIAN POLITICAL THOUGHT

CC – 1D : INDIAN GOVERNMENT AND POLITICS

DISCIPLINE SPECIFIC ELECTIVE (DSE)

DSE -1A : SELECT COMPARATIVE POLITICAL THEORIES Or,

DEMOCRACY AND DECENTRALIZED GOVERNANCE

DSE -1B : PUBLIC POLICY: CONCEPTS AND IMPLEMENTATION IN INDIA Or,

UNDERSTANDING GLOBALIZATION

GENERIC ELECTIVES(FOR DISCIPLINES OTHER THAN POL SC)(GE)

GE-1 : INDIAN POLITICAL THOUGHT.

GE-2 : INDIAN GOVERNMENT AND POLITICS.

SKILL ENHANCEMENT COURSES(SEC)

SEC - 1 : LEGISLATIVE PRACTICES AND PROCEDURES Or,

ELECTORAL PRACTICES AND PROCEDURES

SEC - 2 : PUBLIC OPINION AND SURVEY RESEARCH Or,

ENVIRONMENTAL AWARENESS

SEC - 3 : DEMOCRATIC AWARENESS THROUGH LEGAL LITERACY Or,

GENDER SENSITIZATION

SEC – 4 : PEACE AND CONFLICT RESOLUTION Or,

HUMAN RIGHTS EDUCATION

THREE-YEAR B.A. HONOURS IN PHILOSOPHY

(SIX- SEMESTER PATTERN)

(To be effective from 2017-2018)

There will be six semesters in the Three-Year B.A. (Honours) programme. It consists of 14 Core Courses, 2 Ability Enhancement Courses, 2 Skill Enhancement Courses, 4 Discipline Specific Elective Courses and 4 Interdisciplinary Generic Elective Courses. Each Course, except Ability Enhancement Course and Skill Enhancement Course, is of 75 marks, of which 60 marks is for Semester-End Examination (written) and 15 marks for Internal Assessment.

Ability Enhancement Course will be as per General Instruction; while Skill Enhancement Course is of 50 marks, of which 40 marks is for Semester-End Examination (written) and 10 marks for Internal Assessment.

B.A.(Honours) in Philosophy: 1st Semester

In this semester, for the Philosophy Honours Students the Core Courses and the Ability Enhancement Course (centrally framed) are compulsory; while they are to opt for one Interdisciplinary Generic Elective Course from any subject other than Philosophy. Students of any other Honours subject may opt for the Interdisciplinary Generic Elective Course of Philosophy.

Course Code	Course Title	Course Type	L - T - P	Credit	Marks
CC- 1	Outlines of Indian Philosophy—I	Core Course	5 - 1 - 0	6	75
CC- 2	Outlines of Western Philosophy—I	Core Course	5 - 1 - 0	6	75
GE- 1	Indian Philosophy	Interdisciplinary (Generic Elective)	5 - 1 - 0	6	75
AECC- 1	ENVS	Ability Enhancement Course	4 - 0 - 0	4	100

B.A.(Honours) in Philosophy: 2nd Semester

In this semester, for the Philosophy Honours Students the Core Courses and the Ability Enhancement Course (centrally framed) are compulsory; while they are to opt for one Interdisciplinary Generic Elective Course from any subject other than Philosophy. Students of any other Honours subject may opt for the Interdisciplinary Generic Elective Course of Philosophy.

Course Code	Course Title	Course Type	L - T - P	Credit	Marks
CC- 3	Outlines of Indian Philosophy—II	Core Course	5 - 1 - 0	6	75
CC- 4	Outlines of Western Philosophy—II	Core Course	5 - 1 - 0	6	75
GE- 2	Western Philosophy	Interdisciplinary (Generic Elective)	5 - 1 - 0	6	75
AECC- 2	Communicative Eng./ MIL	Ability Enhancement Course	2 - 0 - 0	2	50

B.A.(Honours) in Philosophy: 3rd Semester

In this semester, for the Philosophy Honours Students the Core Courses and the Skill Enhancement Course are compulsory; while they are to opt for one Interdisciplinary Generic Elective Course from any subject other than Philosophy. Students of any other Honours subject may opt for the Interdisciplinary Generic Elective Course of Philosophy.

Course Code	Course Title	Course Type	L - T - P	Credit	Marks
CC- 5	Indian Ethics	Core Course	5 - 1 - 0	6	75
CC- 6	Western Ethics	Core Course	5 - 1 - 0	6	75
CC- 7	Indian Logic	Core Course	5 - 1 - 0	6	75
GE- 3	Logic	Interdisciplinary (Generic Elective)	5 - 1 - 0	6	75
SEC- 1	Philosophy in Practice	Skill Enhancement Course	2 - 0 - 0	2	50

B.A.(Honours) in Philosophy: 4th Semester

In this semester, for the Philosophy Honours Students the Core Courses and the Skill Enhancement Course are compulsory; while they are to opt for one Interdisciplinary Generic Elective Course from any subject other than Philosophy. Students of any other Honours subject may opt for the Interdisciplinary Generic Elective Course of Philosophy.

Course Code	Course Title	Course Type	L - T - P	Credit	Marks
CC- 8	Western Logic-I	Core Course	5 - 1 - 0	6	75
CC- 9	Psychology	Core Course	5 - 1 - 0	6	75
CC- 10	Philosophy of Religion	Core Course	5 - 1 - 0	6	75
GE- 4	Contemporary Indian Philosophy	Interdisciplinary (Generic Elective)	5 - 1 - 0	6	75
SEC- 2	Philosophy of Human Rights	Skill Enhancement Course	2 - 0 - 0	2	50

B.A.(Honours) in Philosophy: 5th Semester

In this semester, for the Philosophy Honours Students, besides the two compulsory Core Courses there are two Discipline Specific Elective Courses containing Special Texts.

Course Code	Course Title	Course Type	L - T - P	Credit	Marks
CC- 11	Socio-Political Philosophy	Core Course	5 - 1 - 0	6	75
CC- 12	Western Logic-I I	Core Course	5 - 1 - 0	6	75
DSE- 1	Special Text: Kaṭhōpaniṣad	Discipline Specific Elective	5 - 1 - 0	6	75
DSE- 2	Special Text: B. Russell: The Problems of Philosophy	Discipline Specific Elective	5 - 1 - 0	6	75

B.A.(Honours) in Philosophy: 6th Semester

In this semester, for the Philosophy Honours Students, besides the two compulsory Core Courses there are two Discipline Specific Elective Courses containing Special Texts.

Course Code	Course Title	Course Type	L - T - P	Credit	Marks
CC- 13	Philosophy in the Twentieth Century: Indian	Core Course	5 - 1 - 0	6	75
CC- 14	Philosophy in the Twentieth Century: Western	Core Course	5 - 1 - 0	6	75
DSE- 3	Special Text: Rabindranath Tagore: Sadhana	Discipline Specific Elective	5 - 1 - 0	6	75
DSE- 4	Special Text: Hume: An Enquiry Concerning Human Understanding	Discipline Specific Elective	5 - 1 - 0	6	75

THREE - YEAR B.A. PROGRAM IN PHILOSOPHY

(SIX-SEMESTER PATTERN)

(To be effective from the academic session 2017-2019)

[Structure] There will be six semesters in the Three-Year B.A. programme. Each Course, except Skill Enhancement Courses, is of 75 marks; of which 60 marks is for Semester-End Examination (written) and 15 marks for Internal Assessment.

Skill Enhancement Course is of 50 marks; of which 40 marks is for Semester-End Examination (written) and 10 marks for Internal Assessment.

B.A. Programme in Philosophy: 1st Semester

Course Code	Course Title	Course Type	L - T - P	Credit	Marks
CC-1A	Indian Philosophy	Core Course	5 - 1 - 0	6	75

B.A. Programme in Philosophy: 2nd Semester

Course Code	Course Title	Course Type	L - T - P	Credit	Marks
CC-1B	Western Philosophy	Core Course	5 - 1 - 0	6	75

B.A. Programme in Philosophy: 3rd Semester

Course Code	Course Title	Course Type	L - T - P	Credit	Marks
CC-1C	Logic	Core Course	5 - 1 - 0	6	75
SEC-1	Philosophy in Practice	Skill Enhancement Course	2 - 0 - 0	2	50

B.A. Programme in Philosophy: 4th Semester

Course Code	Course Title	Course Type	L - T - P	Credit	Marks
CC-1D	Contemporary Indian Philosophy	Core Course	5 - 1 - 0	6	75
SEC-2	Philosophy of Human Rights	Skill Enhancement Course	2 - 0 - 0	2	50

B.A. Programme in Philosophy: 5th Semester

Course Code	Course Title	Course Type	L - T - P	Credit	Marks
DSE-1A	Philosophy of Religion	Discipline Specific Elective	5 - 1 - 0	6	75
GE-1	Indian Philosophy	Interdisciplinary (Generic Elective)	5 - 1 - 0	6	75
SEC-3	Philosophical Analysis	Skill Enhancement Course	2 - 0 - 0	2	50

B.A. Programme in Philosophy: 6th Semester

Course Code	Course Title	Course Type	L - T - P	Credit	Marks
DSE-1B	Tarkasamgraha (saptapadārtha)	Discipline Specific Elective	5 - 1 - 0	6	75
GE-2	Western Philosophy	Interdisciplinary (Generic Elective)	5 - 1 - 0	6	75
SEC-4	Philosophy of Human Rights	Skill Enhancement Course	2 - 0 - 0	2	50

Outlines of Course Structures

The main components of this syllabus are as follows:

1. Core Course
2. Elective Course
3. Ability Enhancement Course

1. Core Course (CC)

A course, that should compulsorily be studied by a candidate as a core requirement, is termed as a core course.

2. Elective Course

2.1 Discipline Specific Elective (DSE) Course: A course, which may be offered by the main discipline/subject of study, is referred to as Discipline Specific Elective.

2.2 Generic Elective (GE) Course: An elective course, chosen generally from an unrelated discipline/subject of study with intention to seek an exposure, is called a Generic Elective Course.

3. Ability Enhancement Course (AEC)

The Ability Enhancement Course may be of two kinds:

3.1 Ability Enhancement Compulsory Course (AECC)

3.2 Skill Enhancement Course (SEC)

Details of Courses of B.A./B.Sc. (Honours) under CBCS

Course		Credit		Marks
1.	Core Course (14 papers)	Theory + Practical $14 \times (4+2) = 84$	Theory + Tutorial $14 \times (5+1) = 84$	$14 \times 75 = 1050$
2.	Elective Course (8 Papers)			
	A. DSE (4 Papers)	$4 \times (4+2) = 24$	$4 \times (5+1) = 24$	$4 \times 75 = 300$
	B. GE (4 Papers)	$4 \times (4+2) = 24$	$4 \times (5+1) = 24$	$4 \times 75 = 300$
3.	Ability Enhancement Course			
	A. AECC (2 Papers) AECC1 (ENVS) AECC2 (English/MIL)	$4 \times 1 = 4$ $2 \times 1 = 2$	$4 \times 1 = 4$ $2 \times 1 = 2$	100 50
	B. SEC (2 Papers)	$2 \times 2 = 4$	$2 \times 2 = 4$	$2 \times 50 = 100$
	Total Credit :	142	142	Total Marks = 1900

Semester wise Course Structures

Sem ester	Course Type	Course Code	Name of the Course	Credit Pattern (L:T:P)	Total class hrs./week	Marks	Credit	
I	CC	BMH1CC01	Calculus, Geometry & Differential Equations	5:1:0	6	75	6	
		BMH1CC02	Algebra	5:1:0	6	75	6	
	AECC		Environmental Studies	4:0:0	4	100	4	
	GE		To be offered by other discipline.				6	
II	CC	BMH2CC03	Real Analysis	5:1:0	6	75	6	
		BMH2CC04	Differential Equations and Vector Calculus	5:1:0	6	75	6	
	AECC		English/Modern Indian Language	2:0:0	2	50	2	
	GE		To be offered by other discipline.				6	
III	CC	BMH3CC05	Theory of Real Functions & Introduction to Metric Spaces	5:1:0	6	75	6	
		BMH3CC06	Group Theory I	5:1:0	6	75	6	
		BMH3CC07	Numerical Methods & Numerical Methods Lab	4:0:2	8	75 (50+25)	6	
		Choose any one from the following courses for Skill Enhancement Courses (SECs).						
	SEC	BMH3SEC11	Logic and Sets	2:0:0	2	50	2	
		BMH3SEC12	Computer Graphics	2:0:0	2	50	2	
		BMH3SEC13	Object Oriented Programming in C++	2:0:0	2	50	2	
GE		To be offered by other discipline.				6		
IV	CC	BMH4CC08	Riemann Integration and Series of Functions	5:1:0	6	75	6	
		BMH4CC09	Multivariate Calculus	5:1:0	6	75	6	
		BMH4CC10	Ring Theory and Linear Algebra I	5:1:0	6	75	6	
		Choose any one from the following courses for Skill Enhancement Courses (SECs).						
	SEC	BMH4SEC21	Graph Theory	2:0:0	2	50	2	
		BMH3SEC22	Operating System (Linux)	2:0:0	2	50	2	
		BMH3SEC23	MATLAB Programming	2:0:0	2	50	2	
GE		To be offered by other discipline.				6		

Sem ester	Course Type	Course Code	Name of the Course	Credit Pattern (L:T:P)	Total class hrs. /week	Marks	Credit
V	CC	BMH5CC11	Partial Differential Equations and Applications	5:1:0	6	75	6
		BMH5CC12	Mechanics I	5:1:0	6	75	6
	Choose any one from the following courses for Discipline Specific Electives.						
	DSE	BMH5DSE11	Linear Programming	5:1:0	6	75	6
		BMH5DSE12	Number Theory	5:1:0	6	75	6
		BMH5DSE13	Point Set Topology	5:1:0	6	75	6
	Choose any one from the following courses for Discipline Specific Electives.						
	DSE	BMH5DSE21	Probability & Statistics	5:1:0	6	75	6
		BMH5DSE22	Portfolio Optimization	5:1:0	6	75	6
		BMH5DSE23	Boolean Algebra and Automata Theory	5:1:0	6	75	6
VI	CC	BMH5CC13	Metric Spaces and Complex Analysis	5:1:0	6	75	6
		BMH5CC14	Ring Theory and Linear Algebra II	5:1:0	6	75	6
	Choose any one from the following courses for Discipline Specific Electives.						
	DSE	BMH6DSE31	Mathematical Modeling	5:1:0	6	75	6
		BMH6DSE32	Industrial Mathematics	5:1:0	6	75	6
		BMH6DSE33	Group Theory II	5:1:0	6	75	6
	Choose any one from the following courses for Discipline Specific Electives.						
	DSE	BMH6DSE41	Bio Mathematics	5:1:0	6	75	6
		BMH6DSE42	Differential Geometry	5:1:0	6	75	6
		BMH6DSE43	Mechanics II	5:1:0	6	75	6
Optional Dissertation or project work in place of one Discipline Specific Elective (DSE) Paper.							
PW	BMH6PW01	Project Work	0:0:6	6	75	6	

Details of Courses of B.A. (General) under CBCS

Course		Credit		Marks
1.	Core Course (8 papers) 4 core papers each in 2 disciplines of choice	Theory + Practical $8 \times (4+2) = 48$	Theory + Tutorial $8 \times (5+1) = 48$	$8 \times 75 = 600$
2.	Language course (4 Papers)		Theory + Tutorial $4 \times (5+1) = 24$	$4 \times 75 = 300$
3.	Elective Course A. DSE (4 Papers)	$4 \times (4+2) = 24$	$4 \times (5+1) = 24$	$4 \times 75 = 300$
	B. GE (2 Papers)	$2 \times (4+2) = 12$	$2 \times (5+1) = 12$	$2 \times 75 = 150$
4.	Ability Enhancement Course			
	A. AECC (2 Papers) AECC1 (ENVS) AECC2 (English/MIL)	$4 \times 1 = 4$ $2 \times 1 = 2$	$4 \times 1 = 4$ $2 \times 1 = 2$	100 50
	B. SEC (4 Papers)	$4 \times 2 = 8$	$4 \times 2 = 8$	$4 \times 50 = 200$
	Total Credit :	122	122	1700

Details of Courses of B.Sc. (General) under CBCS

Course		Credit		Marks
1.	Core Course (12 papers) 4 core papers each in 3 disciplines of choice	Theory + Practical $12 \times (4+2) = 72$	Theory + Tutorial $12 \times (5+1) = 72$	$12 \times 75 = 900$
2.	Elective Course DSE (6 Papers)	$6 \times (4+2) = 36$	$6 \times (5+1) = 36$	$6 \times 75 = 450$
3.	Ability Enhancement Course			
	A. AECC (2 Papers) AECC1 (ENVS) AECC2 (English/MIL)	$4 \times 1 = 4$ $2 \times 1 = 2$	$4 \times 1 = 4$ $2 \times 1 = 2$	100 50
	B. SEC (4 Papers)	$4 \times 2 = 8$	$4 \times 2 = 8$	$4 \times 50 = 200$
	Total Credit :	122	122	1700

B.A. Mathematics General Course Structure

Semester	Core Course (CC)(8)	Language Course (4)	Elective Course		Ability Enhancement Course	
			DSE(4)	GE(2)	AECC (2)	SEC (4)
I	CC1A (Mathematics) CC2A(Other discipline)	L ₁ -1			AECC1	
II	CC1B (Mathematics) CC2B(Other discipline)	L ₂ -1			AECC2	
III	CC1C (Mathematics) CC2C(Other discipline)	L ₁ -2				SEC1 (Mathematics) Or SEC1 (Other discipline)
IV	CC1D (Mathematics) CC2D(Other discipline)	L ₂ -2				SEC2 (Mathematics) Or SEC2 (Other discipline)
V			DSE1A (Mathematics) DSE2A(Other discipline)	GE-1 (Other discipline)		SEC3 (Mathematics) Or SEC3 (Other discipline)
VI			DSE1B (Mathematics) DSE2B(Other discipline)	GE-2 (Other discipline)		SEC4 (Mathematics) Or SEC4 (Other discipline)

B.Sc. Mathematics General Course Structure

Semester	Core Course (CC)(12)	Discipline Specific Elective (DSE)(6)	Ability Enhancement Course	
			AECC (2)	SEC (4)
I	CC1A (Mathematics) CC2A(Other discipline) CC3A(Other discipline)		AECC1	
II	CC1B (Mathematics) CC2B(Other discipline) CC3B(Other discipline)		AECC2	
III	CC1C (Mathematics) CC2C(Other discipline) CC3C(Other discipline)			SEC1 (Mathematics) Or SEC1 (Other discipline)
IV	CC1D (Mathematics) CC2D(Other discipline) CC3D(Other discipline)			SEC2 (Mathematics) Or SEC2 (Other discipline)
V		DSE1A(Mathematics) DSE2A(Other discipline) DSE3A(Other discipline)		SEC3 (Mathematics) Or SEC3 (Other discipline)
VI		DSE1B(Mathematics) DSE2B(Other discipline) DSE3B(Other discipline)		SEC4 (Mathematics) Or SEC4 (Other discipline)

Core Courses of Mathematics :

Semester	Course Type	Course Code	Name of the Course	Credit Pattern (L:T:P)	Total class hrs./week	Marks	Credit
I	CC	BMG1CC1A	Differential Calculus	5:1:0	6	75	6
II	CC	BMG2CC1B	Differential Equations	5:1:0	6	75	6
III	CC	BMG3CC1C	Real Analysis	5:1:0	6	75	6
IV	CC	BMG4CC1D	Algebra	5:1:0	6	75	6

Discipline Specific Electives (DSE)**Choices for BMG5DSE1A (Choose any one)**

Semester	Course Type	Course Code	Name of the Course	Credit Pattern (L:T:P)	Total class hrs./week	Marks	Credit
V	DSE	BMG5DSE1A1	Matrices	5:1:0	6	75	6
	DSE	BMG5DSE1A2	Mechanics	5:1:0	6	75	6
	DSE	BMG5DSE1A3	Linear Algebra	5:1:0	6	75	6

Choices for DSE1B (Choose any one)

Semester	Course Type	Course Code	Name of the Course	Credit Pattern (L:T:P)	Total class hrs./week	Marks	Credit
VI	DSE	BMG6DSE1B1	Numerical Methods	5:1:0	6	75	6
	DSE	BMG6DSE1B2	Complex Analysis	5:1:0	6	75	6
	DSE	BMG6DSE1B3	Linear Programming	5:1:0	6	75	6

Skill Enhancement Courses (SEC)**Choices for SEC 1 (Choose any one)**

Semester	Course Type	Course Code	Name of the Course	Credit Pattern (L:T:P)	Total class hrs./week	Marks	Credit
III	SEC	BMG3SEC11	Logic and Sets	2:0:0	2	50	2
	SEC	BMG3SEC12	Analytical Geometry	2:0:0	2	50	2
	SEC	BMG3SEC13	Integral Calculus	2:0:0	2	50	2

Choices for SEC 2 (Choose any one)

Semester	Course Type	Course Code	Name of the Course	Credit Pattern (L:T:P)	Total class hrs./week	Marks	Credit
IV	SEC	BMG4SEC21	Vector Calculus	2:0:0	2	50	2
	SEC	BMG4SEC22	Theory of Equations	2:0:0	2	50	2
	SEC	BMG4SEC23	Number Theory	2:0:0	2	50	2

Choices for SEC 3 (Choose any one)

Semester	Course Type	Course Code	Name of the Course	Credit Pattern (L:T:P)	Total class hrs./week	Marks	Credit
V	SEC	BMG5SEC31	Probability and Statistics	2:0:0	2	50	2
	SEC	BMG5SEC32	Mathematical Finance	2:0:0	2	50	2
	SEC	BMG5SEC33	Mathematical Modeling	2:0:0	2	50	2

Choices for SEC 4 (Choose any one)

Semester	Course Type	Course Code	Name of the Course	Credit Pattern (L:T:P)	Total class hrs./week	Marks	Credit
VI	SEC	BMG6SEC41	Boolean Algebra	2:0:0	2	50	2
	SEC	BMG6SEC42	Transportation and Game Theory	2:0:0	2	50	2
	SEC	BMG6SEC43	Graph Theory	2:0:0	2	50	2

Details of Courses

Core Courses –Botany

- 1A. Biodiversity (Microbes, Algae, Fungi and Archegoniate)
- 1B. Plant Ecology and Taxonomy
- 1C. Plant Anatomy and Embryology
- 1D. Plant Physiology and Metabolism

Discipline Specific Electives-Botany (Any two)

DSE 1A (any one)

1. Economic Botany and Biotechnology
or
2. Analytical Techniques in Plant Sciences
or
3. Bioinformatics

DSE 1B (any one)

1. Cell Biology, Genetics and Molecular Biology
or
2. Research Methodology
or
3. Dissertation

Ability Enhancement Compulsory Courses

1. Environmental Studies (ENVS)
2. Communicative English /MIL

Skill Enhancement Courses (SEC)-Botany

SEC –1 (any One)

1. Biofertilizers
or
2. Herbal Technology

SEC –2 (any one)

1. Medicinal Botany
Or
2. Floriculture

SEC –3 (any one)

1. Nursery and Gardening
or
2. Plant Diversity and Human Welfare

SEC –4 (any one)

1. Ethnobotany
or
2. Mushroom Cultivation Technology
or
3. Intellectual Property Right

Scheme for choice based credit system in B. Sc. with Botany

	DISCIPLINE CORE COURSE (6)	Ability Enhancement Compulsory Course (AECC) (4/2)	Skill Enhancement Course (SEC) (2)	Discipline Specific Elective DSE (6)
SEM-I	Discipline- 1 (BOT) CC- 1A: Biodiversity (Microbes, Algae, Fungi and Archegoniate)	ENVS		
	Discipline- 2 (Other)			
	Discipline- 3 (Other)			
SEM-II	Discipline- 1 (BOT) CC- 1B: Plant Ecology and Taxonomy	Communicative English /MIL		
	Discipline- 2 (Other)			
	Discipline- 3 (Other)			
SEM-III	Discipline- 1 (BOT) CC- 1C: Plant Anatomy and Embryology		SEC – 1	
	Discipline- 2 (Other)			
	Discipline- 3 (Other)			
SEM-IV	Discipline- 1 (BOT) CC- 1D: Plant Physiology and Metabolism		SEC - 2	
	Discipline- 2 (Other)			
	Discipline- 3 (Other)			
SEM-V			SEC – 3	DSE – 1A(BOT) :Economic Botany and Biotechnology/ Analytical Techniques in Plant Sciences/ Bioinformatics
				DSE – 2A(Other)
				DSE – 3A(Other)
SEM-VI			SEC – 4	DSE – 1B (BOT) :Cell and Molecular Biology/ Research Methodology/ Dissertation
				DSE – 2B (Other)
				DSE – 3B (Other)

CREDIT DISTRIBUTION

SEMESTER	COURSE OPTED	COURSE NAME	CREDIT
SEM – I Total Credit - 22	AECC – 1	ENVS	4
	Core Course -1A (BOTANY) – TH	Biodiversity (Microbes, Algae, Fungi and Archegoniate)	4
	Core Course -1A (BOTANY) – PR	Biodiversity (Microbes, Algae, Fungi and Archegoniate)	2
	Core Course -2A (OTHER) – TH		4
	Core Course -2A (OTHER) – PR		2
	Core Course -3A (OTHER) – TH		4
	Core Course -3A (OTHER) – PR		2
SEM – II Total Credit - 20	AECC –2	Communicative English /MIL	2
	Core Course -1B (BOTANY) – TH	Plant Ecology and Taxonomy	4
	Core Course -1B (BOTANY) – PR	Plant Ecology and Taxonomy	2
	Core Course -2B (OTHER) – TH		4
	Core Course -2B (OTHER) – PR		2
	Core Course -3B (OTHER) – TH		4
	Core Course -3B (OTHER) – PR		2
SEM – III Total Credit - 20	Core Course -1C (BOTANY) – TH	Plant Anatomy and Embryology	4
	Core Course -1C (BOTANY) – PR	Plant Anatomy and Embryology	2
	Core Course -2C (OTHER) – TH		4
	Core Course -2C (OTHER) – PR		2
	Core Course -3C (OTHER) – TH		4
	Core Course -3C (OTHER) – PR		2
SEM – IV Total Credit - 20	Skill Enhancement Course – 1	SEC – 1	2
	Core Course -1D (BOTANY) – TH	Plant Anatomy and Embryology	4
	Core Course -1D (BOTANY) – PR	Plant Anatomy and Embryology	2
	Core Course -2D (OTHER) – TH		4
	Core Course -2D (OTHER) – PR		2
	Core Course -3D (OTHER) – TH		4
	Core Course -3D (OTHER) – PR		2
SEM – V Total Credit - 20	Skill Enhancement Course – 2	SEC – 2	2
	Discipline Specific Elective	DSE - 1A(Botany) Theory	4
	Discipline Specific Elective	DSE - 1A(Botany) Practical	2
	Discipline Specific Elective	DSE - 2A(Other) Theory	4
	Discipline Specific Elective	DSE - 2A(Other) Practical	2
	Discipline Specific Elective	DSE - 3A (Other) Theory	4
	Discipline Specific Elective	DSE - 3A (Other) Practical	2
SEM – VI Total Credit - 20	Skill Enhancement Course – 3	SEC – 3	2
	Discipline Specific Elective	DSE - 1B (Botany) Theory	4
	Discipline Specific Elective	DSE - 1B (Botany) Practical	2
	Discipline Specific Elective	DSE - 2B (Other) Theory	4
	Discipline Specific Elective	DSE - 2B (Other) Practical	2
	Discipline Specific Elective	DSE - 3B (Other) Theory	4
	Discipline Specific Elective	DSE -3B (Other) Practical	2
Skill Enhancement Course – 4	SEC – 4	2	
TOTAL			122

Type of Courses

Course type	Description	Number of Courses		Credit
		B. Sc. (Honours)	B.Sc. (Regular)	
CC	Core Course	14	12 (4 papers each from 3 disciplines of choice)	6
DSE	Discipline Specific Elective	4	6 (2 papers each from 3 discipline of choice including interdisciplinary papers)	6
GE	Generic Elective	4	-	6
AECC (ENVS & ENGLISH/MIL)	Ability Enhancement Compulsory Course	(1+1)	(1+1)	(4+2)
SEC	Skill Enhancement Course	2	4	2
TOTAL CREDIT		142	122	

B.Sc. (General) Course In CHEMISTRY

Let 1, 2, 3 are three different disciplines of study

Consider Chemistry as Discipline 1

1st Semester

Course Code	Course Title	Course Type	Credit per course	Marks
Discipline 1 (Chemistry)	Core Course CC-1A from Chemistry: (Generic Elective T1 & Generic Elective P1) Atomic structure, chemical periodicity, acids and bases, redox reactions, general organic chemistry of aliphatic hydrocarbons (Theo+Prac)	Core Course (CC) – I	4+2	75
Discipline 2 (other subject)	As to be offered by the other department(s)	Core Course (CC) – I	6	75
Discipline 3 (other subject)	As to be offered by the other department(s)	Core Course (CC) – I	6	75
AECC-1	ENVS	Ability Enhancement Compulsory Course – I	4	100
TOTAL			22	325

2nd Semester

Course Code	Course Title	Course Type	Credit per course	Marks
Discipline 1 (Chemistry)	Core Course CC-1B from Chemistry: (Generic Elective T2 & Generic Elective P2) States of matter & chemical kinetics, chemical bonding, molecular structure, P-block elements (Theo+Prac)	Core Course (CC) – II	4+2	75
Discipline 2 (other subject)	As to be offered by the other department(s)	Core Course (CC) – II	6	75
Discipline 3 (other subject)	As to be offered by the other department(s)	Core Course (CC) – II	6	75
AECC-2	Communicative Eng./MIL	Ability Enhancement Compulsory Course – II	2	50
TOTAL			20	275

3rd Semester

Course Code	Course Title	Course Type	Credit per course	Marks
Discipline 1 (Chemistry)	Core Course CC-1C from Chemistry: (Generic Elective T3 & Generic Elective P3) Chemical energetic, equilibria, organic chemistry (Theo+Prac)	Core Course (CC) – III	4+2	75
Discipline 2 (other subject)	As to be offered by the other department(s)	Core Course (CC) – III	6	75
Discipline 3 (other subject)	As to be offered by the other department(s)	Core Course (CC) – III	6	75
SEC-1	Analytical clinical biochemistry	Skill Enhancement Course	2	50
TOTAL			20	275

4th Semester

Course Code	Course Title	Course Type	Credit per course	Marks
Discipline 1 (Chemistry)	Core Course CC-1D from Chemistry: (Generic Elective T4 & Generic Elective P4) Solution phase equilibria, conductance, electrochemistry, analytical & environmental chemistry (Theo+Prac)	Core Course (CC) – IV	4+2	75
Discipline 2 (other subject)	As to be offered by the other department(s)	Core Course (CC) – IV	6	75
Discipline 3 (other subject)	As to be offered by the other department(s)	Core Course (CC) – IV	6	75
SEC-2	Pharmaceutical chemistry	Skill Enhancement Course	2	50
TOTAL			20	275

5th Semester

Course Code	Course Title	Course Type	Credit per course	Marks
SEC-3	Basics & Application of Computer in Chemistry	Skill Enhancement Course	2	50
Discipline 1 (Chemistry)	DSE-1A: Generic Elective T5 & Generic Elective P5 Transition metal & co-ordination chemistry, analytical and industrial chemistry (Theo+Prac)	Discipline Specific Elective	4+2	75
Discipline 2 (other subject)	DSE-2A: As to be offered by the other department(s)	Discipline Specific Elective	6	75
Discipline 3 (other subject)	DSE-3A: As to be offered by the other department(s)	Discipline Specific Elective	6	75
TOTAL			20	275

6th Semester

Course Code	Course Title	Course Type	Credit per course	Marks
SEC-4	Polymer Chemistry	Skill Enhancement Course	2	50
Discipline 1 (Chemistry)	DSE-1B: Generic Elective T5 & Generic Elective P5 Functional group organic chemistry and industrial chemistry (Theo+Prac)	Discipline Specific Elective	4+2	75
Discipline 2 (other subject)	DSE-2B: As to be offered by the other department(s)	Discipline Specific Elective	6	75
Discipline 3 (other subject)	DSE-3B: As to be offered by the other department(s)	Discipline Specific Elective	6	75
TOTAL			20	275

Details of Courses under Undergraduate Program (B.Sc.)

Course	*Credits	
	Theory+Practical	Theory+Tutorials
I. Core Course (12 Papers)	12X4= 48	12X5=60
04 Courses from each of the 03 disciplines of choice		
Core Course Practical / Tutorial* (12 Practical/ Tutorials)	12X2=24	12X1=12
04 Courses from each of the 03Disciplines of choice		
II. Elective Course (6 Papers)	6x4=24	6X5=30
Two papers from each discipline of choice including paper of interdisciplinary nature.		
Elective Course Practical/Tutorials (6 Practical / Tutorials)	6X2=12	6X1=6
Two Papers from each discipline of choice including paper of interdisciplinary nature		
III. Ability EnhancementCourses		
1. Ability Enhancement Compulsory Course (2 Papers)		
AECC- 1 : Environmental Studies	4X1=4	4X1=4
AECC- 2: Communicative English/ MIL	2X1=2	2X1=2
2. Skill Enhancement Course (Skill Based)		
	4X2=8	4X2=8
(4 Papers of 2 credits each)		
	Totalcredit=122	Total credit=122

Proposed scheme for choice based credit system in B. Sc. with Physics

SEM.	CORE COURSE	Ability Enhancement	Skill Enhancement	Discipline Specific Elective	
		Compulsory Course (AECC)	Course (SEC)	(DSE)	
I	CC- 1A: Mechanics CC- 2A CC- 3A	AECC- 1: Environmental Studies			
II	CC-1B: Electricity and Magnetism CC- 2B CC- 3B	AECC- 2: Communicative English/ MIL			
III	CC-1C : Thermal Physics and Statistical Mechanics		SEC-1		
	CC- 2C				
	CC- 3C				
IV	CC-1D: Waves and Optics		SEC -2		
	CC- 2D				
	CC- 3D				
V		SEC -3	DSE-1 A		
			DSE-2 A		
VI			DSE-3 A		
		SEC -4	DSE-1 B		
			DSE-2 B		
			DSE-3 B		

SEMESTER	COURSE OPTED	COURSE NAME	Credits
I	Ability Enhancement Compulsory Course (AECC -1)	Environmental Studies	4
	Core course-1A (Theory)	Mechanics	4
	Core Course-1A: Practical/Tutorial	Mechanics Lab	2
	Core course-2A (Other discipline)		6
	Core Course-3A (Other discipline)		6
II	Ability Enhancement Compulsory Course (AECC- 2)	Communicative English/ MIL	2
	Core course-1B (Theory)	Electricity and Magnetism	4
	Core Course-1B Practical/Tutorial	Electricity and Magnetism Lab	2
	Core course-2B (Other discipline)		6
III	Core Course-3B (Other discipline)		6
	Core course-1C (Theory)	Thermal Physics and Statistical Mechanics	4
	Core Course-1C Practical/Tutorial	Thermal Physics and Statistical Mechanics Lab	2
	Core course-2C (Other discipline)		6
	Core Course-3C (Other discipline)		6
IV	Skill Enhancement Course -1	Renewable Energy and Energy Harvesting	2
	Core course-1D (Theory)	Waves and Optics	4
	Core Course-1D Practical/Tutorial	Waves and Optics Lab	2
	Core course-2D (Other discipline)		6
	Core course-3D (Other discipline)		6
V	Skill Enhancement Course -2	Weather Forecasting	2
	Discipline Specific Elective -1A	Elements of Modern Physics OR Nuclear and Particle Physics	6
	Discipline Specific Elective -2A	DSE-2A	6
	Discipline Specific Elective -3A	DSE-3A	6
VI	Skill Enhancement Course -3	Computational Physics Skills	2
	Discipline Specific Elective -1B	Quantum Mechanics OR Digital, Analog and Instrumentation	6
	Discipline Specific Elective -2B	DSE-2B	6
	Discipline Specific Elective – 3B	DSE-3B	6
Total Credit	Skill Enhancement Course - 4	Electrical Circuits and Network Skills	2
			122

Physics

1 credit = 1 hour/week for theory; 2 hours/week for practical

Core papers Physics (Credit: 06 each):

CC- 1A Mechanics	Semester- I
CC- 1B Electricity and Magnetism	Semester- II
CC- 1C: Thermal Physics and Statistical Mechanics	Semester- III
CC- 1D: Waves and Optics	Semester- IV

Discipline Specific Elective papers (Credit: 06 each) (DSE 1A, DSE 1B): (One each from Semesters – V and VI)

DSE- 1:	Elements of Modern Physics OR Nuclear and Particle Physics	Semester- V
DSE- 2:	Quantum Mechanics OR Digital, Analog and Instrumentation	Semester- VI

Skill Enhancement Course (Credit: 02 each)- SEC 1 to SEC 4

SEC- 1.	Renewable Energy and Energy harvesting	Semester- III
SEC-2.	Weather Forecasting	Semester- IV
SEC- 3.	Computational Physics Skills	Semester- V
SEC- 4.	Electrical circuits and Network Skills	Semester- VI

For Papers having practical, distribution of 75 marks be as follows:

i) Class Attendance cum Internal Assessment : 20% of 75 marks = 15 marks of which 5 marks be reserved for theoretical class attendance in the following manner:

Attendance 50% & above but below 60% - 2 marks
Attendance 60% & above but below 75% - 3 marks

Attendance 75% & above but below 90% - 4 marks

Attendance 90% & above - 5 marks

and 10 marks be reserved for class test/assignment/seminar (theoretical-5 & practical-5).

ii) 20 marks be allotted for Semester-end- Practical Examination of each paper, distribution of which may be as under:

a) Lab. Note Book : 05 Marks

b) Viva- voce : 05 Marks

c) Experiment : 10 marks

iii) 40 marks be allotted for Semester-end-Theoretical Examination of each paper (Duration of Exam: 2 hours), distribution of which may be as under:

a) Answer 05 questions out of 08 carrying 02 marks each = $05 \times 02 = 10$

b) Answer 02 questions out of 04 carrying 05 marks each = $02 \times 05 = 10$

c) Answer 02 questions out of 04 carrying 10 marks each = $02 \times 10 = 20$

However, questions, carrying 5 or 10 marks, need not necessarily to be a single question.

For paper, having tutorial (PHY-DSE-2), distribution of 75 marks be as follows:

i) Class Attendance cum Internal Assessment : 20% of 75 marks = 15 marks of which 5 marks be reserved for class attendance (both theoretical + tutorial) in the following manner:

Attendance 50% & above but below 60% - 2 marks
Attendance 60% & above but below 75% - 3 marks

Attendance 75% & above but below 90% - 4 marks

Attendance 90% & above - 5 marks

and 10 marks be reserved for class test/ assignment/ seminar (theoretical- 5 & tutorial - 5).
Minimum 15 classes be allotted for tutorial portion.

ii) In the Semester-end- Examination of each paper (Duration of Exam : 3 hours), Question Paper be set for 60 marks, distribution of which may be as under:

a) Answer 10 questions out of 15 carrying 02 marks each = $10 \times 02 = 20$

b) Answer 04 questions out of 06 carrying 05 marks each = $04 \times 05 = 20$

c) Answer 02 questions out of 04 carrying 10 marks each = $02 \times 10 = 20$

However, questions, carrying 05 or 10 marks, need not necessarily to be a single question.

For each SEC paper, distribution of 50 marks be as follows:

i) Internal Assessment: 20% of 50 marks = 10 marks be reserved for class test/ assignment/ seminar.

ii) 40 marks be allotted for Semester-end-Theoretical Examination of each paper (Duration of Exam : 2 hours), distribution of which may be as under:

a) Answer 05 questions out of 08 carrying 02 marks each = $5 \times 2 = 10$

b) Answer 02 questions out of 04 carrying 05 marks each = $2 \times 5 = 10$

c) Answer 02 questions out of 04 carrying 10 marks each = $2 \times 10 = 20$

However, questions, carrying 5 or 10 marks, need not necessarily to be a single question.

Mode of Practical Examination

Centre: Concerned College

Convener: The convener for each practical paper is to be nominated by the UGBS.

Examiners: One internal examiner of the concerned college and one external examiner are to be nominated by the UGBS. However, if any nominated external examiner does not accept the offer due to unavoidable circumstances to be substantiated by the document through proper channel, the Chairman of the UGBS can nominate the external examiner with the consultation of the convener.

**OUTLINE OF THE SEMESTER WISE COURSE STRUCTURE OF B.Sc.
UNDER THE CHOICE BASED CREDIT SYSTEM (CBCS)**

SCHEME FOR CBCS CURRICULUM

SEMESTER	COURSE NAME	COURSE DETAIL	CREDITS
I	Ability Enhancement Compulsory Course –I	Environmental Studies	4
	Core course–I (Zoology)	Animal Diversity	4
	Core course –I Practical	Animal Diversity Lab	2
	Core course –I (Other Subject)		6
	Core course –I (Other Subject)		6
II	Ability Enhancement Compulsory	English communication /M I L	2
	Core course–II (Zoology)	Comparative Anatomy & Developmental Biology of Vertebrates	4
	Core course–II Practical	Comparative Anatomy & Developmental Biology of Vertebrates Lab	2
	Core course–II (Other Subject)		6
	Core course–II (Other Subject)		6
III	Core course–III	Physiology and Biochemistry	4
	Core course–III Practical	Physiology and Biochemistry Lab	2
	Core course–III (Other Subject)		6
	Core course–III (Other Subject)		6
	Skill Enhancement Course–I	Apiculture	2
IV	Core course–IV	Genetics and Evolutionary Biology	4
	Core course–IV Practical	Genetics and Evolutionary Biology Lab	2
	Core course–IV (Other Subject)		6
	Core course–IV (Other Subject)		6
	Skill Enhancement Course-II	Medical Diagnostics	2
V	Skill Enhancement Course- III	Sericulture	2
	Discipline Specific Elective–I (Zoology)	Aquatic Biology or Applied Zoology	4
	Discipline Specific Elective–I Practical	Aquatic Biology or Applied Zoology Lab	2
	Discipline Specific Elective–I (Other Subject)		6
	Discipline Specific Elective–I (Other Subject)		6

VI	Skill Enhancement Course 4	Community Nutrition and Health Statistics	2
	Discipline Specific Elective-2 (Zoology)	Immunology or Insects, Vectors and Diseases	4
	Discipline Specific Elective-2 Practical	Immunology or Insects, Vectors and Diseases Lab	2
	Discipline Specific Elective-II (Other subject)		6
	Discipline Specific Elective-II (Other subject)		6
			122

CREDIT DISTRIBUTION ACROSS COURSES

I	CC- Zoology 1 A (Animal Diversity) CC- Other Subject 2A CC- Other Subject 3A	Environmental Studies	_____	_____
II	CC- Zoology 1B (Comparative Anatomy and Developmental Biology of Vertebrates) CC- Other Subject 2B CC- Other Subject 3B	English Communication/ M I L	_____	_____
III	CC- Zoology 1C (Physiology and Biochemistry) CC- Other Subject 2C CC- Other Subject 3C	_____	SEC-I: Apiculture	_____
IV	CC- Zoology 1D (Genetics and Evolutionary Biology) CC- Other Subject 2D CC- Other Subject 3D	_____	SEC-II: Medical Diagnostics	_____
V	_____	_____	SEC-III Sericulture	DSE-1A Zoology (Applied Zoology or Aquatic Biology) DSE-2A Other Subject DSE- 3A Other Subject
VI	_____	_____	SEC-IV Community Nutrition and Health Statistics	DSE-1B Zoology (Immunology or Insect, Vector and Diseases) DSE-2B Other Subject DSE- 3B Other Subject

Course Type	Number of Courses	Credits		
		Theory	Practical	Theory + Practical
Core course (CC)	12 Papers (4 Papers each in 3 Disciplines of Choice)	4×12=48	2×12=24	72
Discipline specific elective courses (DSE)	6 Papers (2 Papers each in 3 Disciplines of Choice)	4×6=24	2×6=12	36
Ability Enhancement compulsory course (AECC)	2 Papers (Compulsory Language Paper & Environmental Studies)	4×1=4 2×1=2		6
Skill Enhancement Course (SEC)	4 Papers	4×2=8		8
Total		86	36	122

CORE COURSES

CC- 1A: Animal Diversity

CC- 1C: Physiology and Biochemistry

CC- 1B: Comparative Anatomy and Developmental
Biology of Vertebrates

CC- 1D: Genetics and Evolutionary Biology

DISCIPLINE SPECIFIC ELECTIVE COURSES (DSE)**(Any two)**DSE 1A: Applied Zoology or
Aquatic BiologyDSE 1B: Immunology or
Insect, Vector and Diseases**SKILL ENHANCEMENT COURSES: ZOOLOGY**

SEC 1: Apiculture

SEC 2: Medical Diagnostics

SEC 3: Sericulture

SEC 4: Community Nutrition and Health Statistics