



OFFICE OF THE  
ASSAM HIGHER SECONDARY EDUCATION COUNCIL  
BAMUNIMAIDAM :: GUWAHATI-781021

AHSEC/ACA/Syll-Covid/2020/24084

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**A brief report on AHSEC reduced syllabi due to Pandemic Covid-19**

It is our pleasure to inform all concerned that the AHSEC has uploaded in the official website of the Council [www.ahsec.nic.in](http://www.ahsec.nic.in) in the 30% **(reduced portion only)** syllabi for all subjects of H.S. First and Second year of Arts, Science & Commerce streams.

It is well known to all that due to Pandemic Novel Corona Virus (COVID-19) students of our state had already lost the valued academic time. After the CBSE decided to reduce the volume of the course for class XI & XII, the AHSEC was seriously deliberating upon the issue. In the month of July, the AHSEC has sought the views from different State Boards under COBSE, India, Universities of Assam, Principal of Colleges / H.S. Schools / Sr. Secondary Schools/General Secretary, All Assam Higher Secondary Teacher & Employee Association / Assam Junior College Teacher Employee Association / ACTA, eminent educationists of the State.

Most of them were in favour of reducing the volume of the course contents as well as more options in question paper. Based on their feedback and valued suggestions, the Academic Committee of AHSEC in its meeting held on 19/08/2020 had decided to reduce the 30% volume of the course contents of H.S. First & Second year to be made judiciously to remain acquiring comprehensive knowledge of the subject. It is also decided that the skill based subjects, including Music which carries 30 marks in theory must not be reduced. The subject 'Environmental Education/ is also not reduced as it carries 50 marks only.

After getting the approval of the Academic Committee, teachers from Arts, Science and Commerce institutions of Assam including Barak Valley are requested to submit their expertise knowledge where to curtail the courses. Finally, the selective subject experts of all the subjects from various reputed institutions are invited physically to finalise the reduced syllabus at AHSEC office.

**The main objective is to reduce the exam stress** of the students of the session 2020-21, due to this pandemic situation and to prevent learning gaps.

**This syllabi is only the reduced portion for the preparaiton of upcoming final exams of HS 1st and 2nd year to be held in 2021.**

  
(Manoranjan Kakati)

Secretary,

Assam Higher Secondary Education  
Bamunimaidam, Guwahati- 781021

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**ASSAMESE (MIL)****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****সাহিত্য সৌৰভ**

গোট - ১ :

- (ঘ) হস্তিবিদ্যাৰ্ণৱ পুথি
- (ছ) অসমীয়া চলচ্চিত্ৰৰ গতিধাৰা

গোট - ২ :

- (গ) মিলন
- (ঙ) কাঠমিস্ত্ৰীৰ ঘৰ
- (জ) কৰুণতম

গোট - ৩ :

- (ক) মূল্যবোধ শিক্ষা

গোট - ৪ :

বিভক্তি : ক্ৰিয়া বিভক্তি আৰু নাম বিভক্তি



**BENGALI (MIL)****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****Unit I (Poetry) : পদ্য**

- (ক) অভিসারের পূর্ব-প্রস্তুতি : গোবিন্দদাস
- (ঘ) মাতৃহৃদয় : প্রিয়ংবদা দেবী
- (ছ) পূব-পশ্চিম : অচিন্ত্য কুমার সেনগুপ্ত

**Unit II (Prose) : গদ্য**

- (ক) ফুলের বিবাহ : বঙ্কিমচন্দ্র চট্টোপাধ্যায়
- (ঙ) মাস্টার মহাশয় : প্রভাতকুমার মুখোপাধ্যায়
- (চ) দিবসের শেষে : জগদীশ গুপ্ত

**Unit III**

- (ক) 'মূল্যবোধ শিক্ষা' : ড<sup>o</sup> সুজিত বর্ধন

**Unit IV (Grammar) : ব্যাকরণ**

- (ঘ) সমাস

**Unit V (Essay & Composition) : রচনা ও সৃষ্টিধর্মী লিখন**

- i. সাম্প্রতিক সমস্যামূলক
- ii. ক্রীড়া বিষয়ক
- iii. ভ্রমণ বিষয়ক



## BODO (MIL)

### SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE (TOPICS TO BE DELETED)

#### Unit - 1 : Prose

4. बुथुवा थुंग्रि - नील कमल ब्रह्म
5. बर' राव थुनलाइयाव प्रमद चन्द्र ब्रह्मनि बिहोमा - मंगलसिं हाजवारी
7. कासारनि हरिटिकर - महनी महन ब्रह्म

#### Unit - 2 : Poetry

2. संसारनि अन्नाइ - प्रम'द चन्द्र ब्रह्म
6. गोथां गाब गार्थोंसै - अन्जु
7. दावदो दे दाव बर'हारि - नन्देस्वर बर'

#### Unit - 3 :

1. बेसेन मोन्दांनि सोल्लोंथाइ - ड० दुलुमणी गस्वामी  
रा.सो. बिरुपाक्षगिरि बसुमतारी

#### Unit - 4 : Grammar

सोदोब बेखेवफा आरो मावरिजा बेखेवफा



**GARO (MIL)****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****Unit - 1 : Prose**

- (v) Lekka Pora aro Gisik Bimik : K.A. Momin
- (vi) Gital Chasongo Janggi Tangani : L.R. Marak

**Unit-2 : Poetry :**

- (v) Seng nat : H.D. Momin
- (vi) Waimong Bri, Matchuni Simchi : Herilla Rechil

**Unit - 3 :**

**Not Deleted**

**Unit - 4 :**

**Not Deleted**



**HINDI (MIL)****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****Unit 2 : रचनात्मक लेखन एवं जन-संचार माध्यम**

- \* कार्यालयी पत्र (Karlyalai Patra)
- \* फीचर लेखन (Fichar Lekhan)

**Unit 3****आरोह भाग-2****काव्य-भाग**

- \* सहर्ष स्वीकारा है (Saharsh Swikara Hain)
- \* रूबाइयाँ (Rubaiya)
- \* छोटा मेरा खेत (Chota Mera Khet)

**गद्य-भाग**

- \* बाजार-दर्शन (Bazar-Darshan)

**वितान भाग-2**

- \* सिल्वर वैडिंग (Silver Wedding)





**HMAR (MIL)****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****Unit - 1 : PROSE**

- (iii) Chulram Fang : H F Nghakaka
- (v) Khuongpuitlur : S N Ngurte

**Unit-2 : POETRY :****Modern :**

- (iii) Zo Tlangsangah : L. Keivom
- (v) Zion Khawvar Nghaktuhai : Pautinkhup

**Unit-3 : Grammar & Composition**

- (i) Parts of Speech
- (ii) Noun
- (iii) Verb
- (iv) Tawng Upa (Idioms & Phrases)
- (v) Thumal Iniaichin Bikhai

**Unit-4 : Essay****Not Deleted**

**KHASI (MIL)****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****Unit - 1 : PROSE**

- (ii) U Men Mali

**Unit II : Poetry :**

- (ii) Ka Wah Umkrah

**Unit III : Grammar :**

Pieces (Lynnong) : VIII

**Unit IV : Essay Writing :**

(Not Deleted)



**MANIPRUI (MIL)****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****Unit - 1 : PROSE**

৩. মৈতৈ নুপী : এস, কৃষ্ণমোহন সিংহ

**Unit-2 :**

২. ভেলু এডুকেশনগী তঙায়ফদবা : এন, জি, ইবেতোম্বী সিংহ

**Unit-3 : POETRY (শৈরেং):**

১. মৈতৈ চনু : লামাবম কমল সিংহ
৬. মঙাল : এস, ধবল সিংহ

**Unit-4 : Grammar**

১. সমাস

**Unit-5 :**

(Not Deleted)



## **MIZO (MIL)**

### **SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE**

#### **(TOPICS TO BE DELETED)**

#### **Unit-1 : Prose (THU) :**

- (iii) Mizo nula huaisen pahnih : R.L. Thanmawia
- (vii) Zoram indopui pahnihua : C. Chhuanvawra
- (ix) Lungphang lo la : L. Keivom
- (x) Thlaa lawn : A. Sawihlira

#### **Unit-2 : Poetry (HLA) :**

- (iv) Piallci hmun rem kan bel e : Dozinga
- (v) Tleitirah : Dura Chongthu
- (ix) Khuavel i la chhing ngei ang : V. Thangzama
- (xi) Phungrual an tin ang a : Laithangpuia

#### **Unit-3 : Fiction :**

**Not Deleted**

#### **Unit-4 : Drama :**

**Not Deleted**

#### **Unit-5: Grammar and Composition :**

**Not Deleted**



## NEPALI (MIL)

### SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE (TOPICS TO BE DELETED)

#### Unit 1 : PROSE

- Lesson 5 : कुनै गुलाफ ओभानो छैन यहाँ (Page 44-53)  
(Kunai Gulaf Obhano Chhaina Yahan)
- Lesson 6 : चर्यापदर नेपाली भाषा (Page 54-61)  
(Charyapada Ra Nepali Bhasha)
- Lesson 7 : अव्यवस्थित संरचना (Page 62-72)  
(Abyavasthit Samrachana)

#### Unit 2 : POETRY

- Lesson 3 : तीजको बयान (Page 84-91)  
(Teejko Bayan)
- Lesson 5 : म रमाउन सक्ने मेरो देश (Page 92-98)  
(Ma Ramauna Sakne Mero Desh)

#### Unit 4 : GRAMMAR

- पक्ष (Paksha) (Page 154-163)  
आदरार्थी (Adararthi) (Page 163-166)

#### Unit 5 : ESSAYS

- परोपकार (Paropkar) (Page 173-175)  
बिज्ञानको चमत्कार (Vijnan ko Chamatkar) (Page 176-177)



**URDU (MIL)****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****Unit-1 : Prose :**

- (a) Marhoom ki yad main : Petros Bokhari

**Unit-2 : Poetry :****(i) Ghazals :**

- (b) Sheikh Ibrahim Zauq

- (d) Firaq Gorakhpoori

- (ii) Mathonawi (Duniya ki Be-thibati) : Nawab Mirza Shauq Lakhnavi

**(iv) Nazam**

- (a) Tarana-e-A'sam : Anjum Shujabadi (Abul Hussain Mazumder)

**Unit-3: Biographies :**

**Not Deleted**

**Grammar :**

- (iv) Muhawara

**Unit-4 : Translation (Tarjuma) from English to Urdu :**

**Not Deleted**

**Unit-5 : An Essay on general topics :**

**Not Deleted**



**ALTERNATIVE ENGLISH****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****Unit – 1 : Prose :**

1. The Verger
2. On Not Being a Philosopher

**Unit – 2 : Poetry :**

3. Sita
4. The Brook

**Unit – 3 : Grammar :**

5. Use of Tense.



**ENGLISH (CORE)****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****Section – B**

1. Designing or drafting posters.
2. Writing formal and informal invitations and replies.
3. Letters to the Editor.

**Section – C : Grammer**

1. Transformation of sentences.

**Section – D****(i) FLAMINGO****Prose :**

1. Memoirs of Chota Sahib
2. Going places

**Poetry :**

3. A Roadside Stand

**(ii) VISTAS**

4. The Tiger King
5. Memories of Childhood





## **ACCOUNTANCY**

### **SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE**

#### **(TOPICS TO BE DELETED)**

#### **Part A**

- Unit - I :** Incidental trading activities by a Not for profit Organisation.
- Unit - II :** Guarantee of profit to a partner, Past adjustments.
- Unit - III :** Capitalisation method of valuation of Goodwill. Adjustment of capitals, change in profit sharing ratio among the existing partners.
- Unit - IV :** Calculation of profit for the current period, Treatment of Joint Life Policy and Individual Life Policy in case of death of a partner.
- Unit - V :** No change.

#### **Part B**

- Unit - I :** Issue of shares for consideration other than cash. Buy back of shares – meaning.
- Unit - II :** Issue of debentures for consideration other than cash, issue of debentures as a collateral security.  
  
Accounting for Interest on Debentures, Writing off Discount/Loss on issue of Debentures.  
  
Redemption of Debentures by purchase in open market, by conversion, Sinking Fund Method.
- Unit - III :** No change
- Unit - IV :** No change
- Unit - V :** Types of Ratio – Liquidity Ratios, Solvency Ratios, Activity Ratio and Profitability Ratio.
- Unit - VI :** Preparation of cash flow statement (as per Accounting standards issued by ICAI)

Or

**Part C**

**Unit - I :** No change

**Unit - II :** No change

**Unit - III :** Using Queries, forms and Reports for generating accounting information, Application of DBMS in generating accounting information such as shareholders records, sales reports, customers profile, suppliers profile, pay roll, employees profile, petty cash register.

**Unit - IV :** Application of Eletronic spreadsheet in generating accounting information, preparing depreciation schedule, loan repayment schedule, pay roll accounting and other such applications.



**ADVANCE ASSAMESE****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****অসমীয়া উচ্চতৰ সাহিত্য সংকলন**

গোট - ১ : মোৰ গাঁও

গোট - ২ : বহাগ বিহুৰ পৰম্পৰা

গোট - ৪ : আমাৰ ছাৰ

গোট - ৫ : সাহিত্য সমালোচনা : উপন্যাস

গোট - ৬ : অলংকাৰ : শব্দালংকাৰ : শ্লেষ, অৰ্থালংকাৰ : অপ্ৰস্তুত প্ৰশংসা

গোট - ৭ : অসমীয়া সাহিত্যৰ বুৰঞ্জী (১৮৮৯-১৯৪০) : উপন্যাসৰ পৰিচয়



## ADVANCE BENGALI

### SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE

#### (TOPICS TO BE DELETED)

#### Unit I (Poetry) : পদ্য

- i. বংশীনাদে : বড়ু চন্ডীদাস
- ii. মেরুর ডাক : প্রমথনাথ বিশী

#### Unit II (Prose) : গদ্য

- i. ভালবাসার অত্যাচার : বঙ্কিমচন্দ্র চট্টোপাধ্যায়

#### Unit V (Rhetoric & Prosody) : অলংকার ও ছন্দ

- i. অলংকার : সংজ্ঞা ও উদাহরণ
  - (a) উৎপ্রেক্ষা
  - (b) সমাসোক্তি
  - (c) বিষম
- ii. ছন্দ :
  - (a) সংজ্ঞা : অক্ষর, মাত্রা, ছেদ, পর্ব, স্তবক।
  - (b) বৈশিষ্ট্য ও দৃষ্টান্ত : তানপ্রধান ও স্বাসাঘাত প্রধান।



## ADVANCE BODO

### SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE (TOPICS TO BE DELETED)

#### Unit - I : Poem ( खन्थाइ )

2. दै बाजुम - प्रमद चन्द्र ब्रह्म
3. दावस्त्रि गोबा नागिरदों आं - समर ब्रह्म चौधुरि
5. आरज - सुरत नारजारि

#### Unit - II : Prose ( राइथाइ )

3. बाथौ दोहोरोम आरो सानथौ - रामदास बसुमतारि

#### Unit - IV : Short Story

3. रोनाव फाग्ला - हरिभूषण ब्रह्म

#### Unit - V : Literary Criticism

2. सलमा

#### Unit - VI : Alankar

3. आनुप्रास, यमक, श्लेष, उपमा, रूपक, उतप्रेक्षा

#### Unit - VII : History of Boro Literature

1. बर' सुंद' सल'



**ADVANCE HINDI****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****Unit -1 : MODERN POETRY :**

1. Viplab Gayan - Balkrishna Sarma 'Navin'.
2. Gandhari Ka Abhishap - Dharmvir Bharti

**Unit -2 : DRAMA :**

Last 2 unit from the Drama Bhaskar Barman – Dr. Hiralal Tiwari.

**Unit -3 : NOVEL :**

Upanayas Kala Ki dristi se Samiksha.

**Unit -4 : POETICS**

- (i) Ras



**ADVANCE MANIPURI****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****Unit -1 : NON FICTION PROSE :**

- (ii) Meenungsi : Kh. Chaoba Singh
- (iv) Bharat Chanugi Adarsha : Thoibi Devi

**Unit -2 : SHORT STORIES :**

- (ii) Sahityakar : Sanasam Binod

**Unit -3 : HISTORY OF LITERATURE :**

**(Not deleted)**



**ADVANCE SANSKRIT****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****Unit -1 :****(Not deleted)****Unit -2 :**

Vedic Mantras

**Unit -3 :****(Not deleted)****Unit -4 :****(Not deleted)****Unit -5 :****(Not deleted)****Unit -6 :****(Not deleted)****Unit -7 :**

Translation





# **ANTHROPOLOGY**

## **SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE (TOPICS TO BE DELETED)**

### **THEORY**

#### **Unit 1 : PHYSIAL ANTHROPOLOGY**

- (iii) Racial classification and geographical distribution.

#### **Unit 2 : PRE HISTORIC ARCHAEOLOGY**

- (iv) A comparative study of the sailent features of Paleolithic and Neolithic cultures.

#### **Unit 3 : MATERIAL CULTURE AND ECONOMIC ANTHROPOLOGY**

- (iii) Brief outline of the methods of hunting, fishing and agriculture with reference to various communities of North East India as far as practicable.

#### **Unit 4 : A. SOCIAL ANTHROPOLOGY**

- (ii) Clustered relationship in nuclear family.
- (iii) Rules of residence : Patrilocal, matrilocal, neolocal, avancolocal, bi-local, matri-patri-local, Rules of descent, Patrilineal and matrilineal descent.

#### **B. Ethnography**

- (iii) A study of social organization of the Ao-Naga and the Apatani.

#### **Unit 5 : ECOLOGY**

- (ii) Elements of environment : Solid, liquid and gas
- (iii) Physical or abiotic environment, biological or biotic environment and socio-cultural environment.

**ANTHROPOLOGY****PRACTICAL****Unit 1 : PHYSICAL ANTHROPOLOGY****A. OSTEOLOGY**

- (ii) Occipital, Temporal, Innominate, Ulna, Fibula. (Total 5 bones)

**Unit 2 : SOCIAL SURVEY****C.**

- (ii) Marital status (Showing married, widow/widower, divorced/ diveroce and unmarried)



## ARABIC

### SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE

#### (TOPICS TO BE DELETED)

#### A. Literature :

5. الدرس الخامس : خديجة بنت خويلد (رض)  
 7. الدرس السابع : أغلى ما في الدنيا  
 8. الدرس الثامن : جود أعرابية  
 12. الدرس الثاني عشر : وفاة العرب

#### B. Language :

##### (i) Grammar (Applied)

- (c) Abwab Thulathi Mazid fih.  
 (d) Al-Murakkabaat.  
 (h) Adad wa Ma'dud.

##### (iii) Reading skills :

An unseen passage of about 80 words followed by some short questions for testing comprehension skill.



**BANKING****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)**

- Unit 1 :** Other banks, Progress of Nationalisation of banks, Lead Bank Scheme, Group Banking vs Chain Banking.
- Unit 2 :** Method of note issue, clearing functions of the RBI.
- Unit 3 :** Foreign exchange market, Non bank financial institution– meaning and features.
- Unit 4 :** IFCI, IDBI, UTI and Money market Mutual Fund.
- Unit 5 :** Hundies, Holder in due course, Payment in due course.
- Unit 6 :** Protection of collecting banker, material alteration.
- Unit 7 :** Principles of sound investment and lending, Hypothecation, Letter of credit.



## **BIOLOGY (BOTANY)**

### **SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE (TOPICS TO BE DELETED)**

#### **Unit- 6 : REPRODUCTION**

##### **Chapter - 1 : Reproduction in organisms : (Deleted)**

Reproduction, a characteristic feature of all organisms for continuation of species; modes of reproduction- asexual and sexual reproduction; asexual reproduction-binary fission, sporulation, budding gemmule formation, fragmentation; vegetative propagation in plants.

##### **Chapter - 2 : Sexual reproduction in flowering plants (Not Deleted)**

Sexual reproduction in flowering plants

#### **Unit- 7 : GENETICS AND EVOLUTION**

##### **Chapter -7 : Evolution (Deleted)**

Brief account of evolution.  
Origin and Evolution of man

#### **Unit- 8 : BIOLOGY IN HUMAN WELFARE**

##### **Chapter - 9 : Strategies for enhancement in food production (Deleted)**

Plant breeding, tissue culture, single cell protein.

##### **Chapter - 10 : Microbes in Human Welfare (Not Deleted)**

Microbes in Human Welfare

#### **Unit-9 : BIOTECHNOLOGY**

##### **Chapter - 11 : Biotechnology : Principles and processes (Not Deleted)**

Whole chapter

##### **Chapter - 12 : Biotechnology and its application (Not Deleted)**

Whole chapter

**Unit- 10 : ECOLOGY AND ENVIRONMENT**

**Chapter - 13: Organisms and Population**

**(Not Deleted)**

- i) Organism and its Environment.
- ii) Populations.

**Chapter - 16 : Bioresources of Assam**

**(Not Deleted)**

Medicinal and timber yielding Plants.



**BIOLOGY (ZOOLOGY)****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****Unit – 6 : Reproduction****Chapter – 3 : Human Reproduction**

- Pregnancy and embryonic development
- Parturition and lactation

**Chapter – 4 : Reproductive Health**

- Population stabilization and birth control
- Infertility

**Unit – 7 : Genetics & Evolution****Chapter – 5 : Principles of Inheritance & Variation**

(Not Deleted)

**Chapter – 6 : Molecular Basis of Inheritance**

- RNA world
- Regulation of gene expression
- Human Genome Project
- DNA Finger printing

**Unit – 8 : Biology and Human Welfare****Chapter – 8 : Human Health and Diseases**

(Not Deleted)

**Chapter – 9 : Strategies for enhancement in food production**

- Animal Husbandry

**Unit – 9 : Biotechnology & its Application****Chapter – 12 : Biotechnology and its application**

- Ethical issues

**Unit – 10 : Ecology****Chapter – 14 : Ecosystem (Deleted complete chapter 14)**

**Chapter – 15 : Biodiversity and conservation**

(Not Deleted)

**Chapter – 16 : Bioresources of Assam**

(Not deleted the portion included in Zoology)

**Chapter – 17 : Environmental Tissue**

- Solid waste management
- Agrochemicals and their effects
- Radioactive wastes
- Greenhouse effect and global warming
- Ozone depletion
- Deforestation
- Degradation by improper resource utilization and maintenance





**BIOTECHNOLOGY****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****Unit-1: Protein engineering and Bioinformatics**

Protein Designing  
Sequence and nomenclature

**Unit-2: Genetic engineering and genomics**

DNA Probes  
Hybridization Techniques: southern, Northern and Western DNA Sequencing

**Unit-3: Environmental Biotechnology and Bioethics**

Herbicides and fertilizers  
Biosensors to detect environmental pollution  
Ethical issue Patenting life forms

**Unit-4: Microbial technology**

Classification of microorganism  
Kinetics of microbial growth  
Application of Microbial culture

**Unit-5: Plant cell culture technology**

Cellular totipotency  
Transgenic Plants for crop improvement

**Unit-6: Animal cell culture technology**

Scale up of animals cell culture process  
Stem cell technology

**DELIMITATION OF PRACTICAL**

- Ion-exchange chromatography for protein
- Determination of bacterial growth curve
- Estimation of blood glucose by enzymatic method
- Isolation of bacterial plasmid DNA and its detection by gel electrophoresis
- Seminar



**BUSINESS STUDIES****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)**

- Unit I :** Management as an activity  
A process and a group  
Levels of management
- Unit II :** Teachiques of scientific management
- Unit III :** Economic Environment in India  
Privatisation and globalisation
- Unit IV :** Types of plans
- Unit V :** Structure of organisation  
Formal and Informal Organisation
- Unit VI :** Staffing as a part of Human Resource Management.
- Unit VII :** Maslow’s Hierarchy of Need theory  
Barriers to Effictive Commanication
- Unit VIII :** Teachniques of controlling  
Relationship between planning and controlling
- Unit IX :** Role and objectives of Financial Management  
Factors influencing capital structure
- Unit X :** NSEI, OTCEI, Trading Procedure  
SEBI – objectives
- Unit XI :** Physical Distribution  
Choice of Channel of Distribution  
Objectives against Advertising  
Methods of publicity
- Unit XII :** Legal Redressal with reference to Consumer Protection Act.  
Role of Consumer Organisations and NGOs.



**CHEMISTRY****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****Unit-1 : Solid State**

Electrical and magnetic properties. Band theory of metals, conductors, semiconductors and insulators and n and p type semi conductors.

**Unit-2 : Solutions**

Abnormal molecular mass, Van't Hoff factor.

**Unit-3 : Electrochemistry**

Lead accumulator, fuel cells, dry cells, electrolytic cells, Corrosion, Law of electrolysis (elementary idea), dry cell.

**Unit-4 : Chemical Kinetics**

Concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.

**Unit-5 : Surface Chemistry**

Emulsion – types of emulsions, catalysis : homogenous and heterogeneous, activity and selectivity of solid catalysts; enzyme catalysis.

**Unit-6 : General Principles and Processes of Isolation of Elements**

6.4 : Thermodynamics of Metallurgy

6.4.1 : Applications

6.6 : Oxidation Reduction

6.7 : Refining

**Unit-7 : p-Block Elements**

7.6 : Phosphorus – allotropic forms

7.7 : Preparation and properties of Phosphine

7.8 : Compounds of Phosphorus : Preparation and properties of Halides.

7.9 : Oxo acids of phosphorus.

7.17 : Sulphuric Acid : industrial process of manufacture, Oxides of Nitrogen  
(Structure only)

**Unit-8 : d and f-Block Elements**

Chemical reactivity of lanthanoids, Actinoids – Electronic configuration, oxidation states and comparison with lanthanoids. Preparation and properties of  $\text{KMnO}_4$  and  $\text{K}_2\text{Cr}_2\text{O}_7$

**Unit-9 : Coordination Compounds**

- 9.4 : Structure and stereoisomerism.
- 9.7 : Stability of coordination compounds and Organometallic compounds.
- 9.8 : Importance and application of coordination compounds.

**Unit-10 : Haloalkanes and Haloarenes**

- 10.7 : Polyhalogen compounds.

**Unit-11 : Alcohols, Phenols and Ethers**

- 11.5 : Some commercially important alcohols.

**Unit-12 : Aldehydes, Ketones and Carboxylic Acid**

No topic omitted

**Unit-13 : Amines**

- 13.7 : Diazonium salts : Preparation, chemical reaction, Importance in synthetic organic chemistry.

**Unit-14 : Biomolecules**

Oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen), importance of carbohydrates.  
Vitamins – classification and functions.  
Enzymes Hormones – Elementary idea excluding structure

**Unit-15 : Polymers**

Biodegradable and non-biodegradable polymers.

**Unit-16 : Chemistry in Everyday life**

Chemicals in food – preservatives, artificial sweetening agents, elementary idea of antioxidants. Cleansing agents – soaps and detergents, cleansing action.

**CHEMISTRY PRACTICAL****K. Qualitative Analysis**

Cations :  $\text{As}^{3+}$ ,  $\text{Co}^{3+}$

Anions :  $\text{SO}_3^{2-}$ ,  $\text{NO}_2^-$ ,  $\text{PO}_4^{3-}$ ,  $\text{C}_2\text{O}_4^{2-}$ ,  $\text{CH}_3\text{COO}^-$



**COMMERCIAL MATHEMATICS AND STATISTICS****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****Unit 1 : SIMPLE & COMPOUND INTEREST**

- \* Annuity

**Unit 2 : LINEAR INEQUALITIES**

- \* Linear inequalities & their graphical representation.
- \* Mathematical Induction.

**Unit 3 : (B) DETERMINANTS**

- \* Determinants (Problems using property of determinant)

**Unit 4 : STATISTICAL AVERAGE**

- \* Deciles and Percentiles.
- \* Graphic method of location of median, quartiles and mode
- \* Derivation of relationship between AM, GM, HM.

**Unit 5 : MEASURES OF DISPERSION**

- \* Lorenz Curve

**Unit 6 : (B) CORRELATION**

- \* Karl Pearson's Correlation co-efficient (Numerical problems should be excluded)



## **COMPUTER SCIENCE AND APPLICATION**

### **SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE**

#### **(TOPICS TO BE DELETED)**

#### **UNIT 1 : OBJECT ORIENTED PROGRAMMING IN C++**

- Data File Handling :Types of data files- Text file and Binary file
- Text File : Basic file operations on text file : Creating/Writing text into file, Reading and Manipulation of text from an already existing text file(accessing sequentially).
- Binary File : Creation of file, Writing data into file Searching for required data from file,  
Appending data to a file, Insertion of data in sorted file,Deletion of data from file,  
Modification of data in a file,  
Implementation of above mentioned data file handling in C++,  
Components of C++ to be used with file handling,  
Header file : fstream.h, ifstream, ofstreamstream classes,  
Opening a text file in in, out, and app modes,  
Using cascading operators(>><<) for writing text to the file and reading text from the file,  
open(), get(), put(), getline(), and close() functions, Detecting end-of-file (with or without using eof() function),  
Opening a Binary file using in, out and app modes,  
open(), read(), write() and close() functions, Detecting end-of-file (with or without using eof() function), tellg(), tellp(), seekg(), seekp() functions

#### **UNIT 2 : DATA STRUCTURES**

- Queue :  
Operations on Queue (Insert and Delete and its Implementation in C++)

#### **UNIT 3 : DATABASE MANAGEMENT SYSTEM AND SQL**

- Relational algebra: Selection, Projection, Union and Cartesian product.

**UNIT 4 : BOOLEAN ALGEBRA**

- Application of Boolean Logic : Digital electronic circuit design using basic Logic Gates (NOT, AND, OR, NAND, NOR)  
Use of Boolean operators (NOT, AND, OR) in SQL SELECT statements  
Use of Boolean operators (AND, OR) in search engine queries

**UNIT 5 : NETWORKING AND OPEN SOURCE SOFTWARE**

- Introduction to Web services : Web Scripting-Client side( VB Script, Java Script, PHP) and Server side(ASP, JSP, PHP), Web 2.0(for social networking)





**ECONOMICS****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****PART A – INTRODUCTORY MICROECONOMICS****Unit I : INTRODUCTION**

No topics deleted

**Unit II : CONSUMER’S BEHAVIOUR AND DEMAND**

Consumer’s equilibrium in terms of utility approach (in case of two commodities) and indifference curve approach.

Expenditure method of measuring price elasticity of demand.

**Unit III : PRODUCER’S BEHAVIOUR AND SUPPLY**

Returns to scale, Geometric method of measuring price elasticity of supply, Producer’s equilibrium with the help of marginal cost and marginal revenue.

**Unit IV : FORMS OF MARKET**

Price and output determination under monopoly and monopolistic competition.

**Unit V : SIMPLE APPLICATIONS OF TOOLS OF DEMAND AND SUPPLY CURVES**

Diagrammatic Presentation of Price Ceiling and Price floor.

**PART B – INTRODUCTORY MACROECONOMICS****Unit VI : NATIONAL INCOME AND RELATED AGGREGATES**

Private Income, Personal income, Personal Disposable income, National Disposable income.

Explanation of Methods of Measuring national Income–

Value Added Method (Product method), Expenditure Method and Income Method.

**Unit VII : DETERMINATION OF INCOME AND EMPLOYMENT**

Problems of excess and deficient demand – measures to correct them – challenges in Government spending.

**Unit VIII : MONEY AND BANKING**

Control of credit through bank Rate, Cash Reserve Ratio, Statutory Liquidity Ratio, Repo Rate, Reserve Repo Rate, Open Market Operations, Margin Requirement.

**Unit IX : GOVERNMENT BUDGET AND THE ECONOMY**

Measures of Government deficit – revenue deficit, fiscal deficit, Primary deficit and their meaning.

**Unit X : BALANCE OF PAYMENTS**

Meaning of Balance of Payment deficit, Foreign Exchange Rate – meaning of fixed and flexible exchange rates and managed floating, Determination of exchange rate in a free market.



**ECONOMIC GEOGRAPHY****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****Group - A : India**

- Unit-I : Introduction**  
No change
- Unit-II : Agriculture**  
Development of irrigation, Rubber, sugarcane
- Unit-III : Resources**  
Energy resources available in India
- Unit-IV : Manufacturing Industries**  
Ship building, Pulp and paper making
- Unit-V : Trade- Export and Import**  
Shipping and Airways
- Unit-VI : North-East India with special reference to Assam**  
Pulp and paper making, Coffee and Rubber

**Group - B : Other Countries**

- Unit-VII : U.S.A.**  
Mining
- Unit-VIII : China**  
Mineral resources
- Unit-IX : Japan**  
Sericulture, Ship building industry
- Unit-X : Bangladesh, Sri Lanka and Pakistan**  
Transport, Industries



## **EDUCATION**

### **SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE (TOPICS TO BE DELETED)**

**Unit-1 : Development of Secondary Education in India and Assam :**

- (c) National Policy of Education 1986 –Salient features.
- (d) Secondary Education in Assam in post-Independence period
  - Development after Independence

**Unit-2 : Non-formal Education**

- (a) Non-formal Education
  - Meaning, definition, Objective, scope and characteristics of Non-formal Education
  - Importance of Non-formal Education
  - Correspondance Education— Meaning, definition, Objectives and Importance

**Unit-3 : Current Trends in Education**

- (c) Physical Education
  - Meaning and definition
  - Need and Importance
  - Physical Education in Educational Institutions
- (e) Women Empowerment.
  - Meaning and definition
  - Status of women in Indian Educational system.
  - Education for Women Empowerment

**Unit-4 : Learning**

- Learning and Maturation
- Major Laws of Learning and their Educational significance

**Unit-5 : Memory and Forgetting, Attention and Interest**

- a)
  - Types and marks of good memory
  - Improvement of memory
- b) Attention and Interest – Sources of Interest

**Unit-6 : Mental Health and Hygiene**

The unit should remain as it is.

**Unit-7 : Educational Statistics**

- (b) Statistical Methods
  - Tabulation of data frequency distribution table
  - Graphic representation of data– Meaning, advantages and rules – Histogram and Polygon
  - Diagram– Bar Diagram
- (d) Various Measures of variability



**ENGINEERING DRAWING****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)**

- Unit-1 :** Objects having hole, free hand pictorial drawing from models and multi view projection drawings.
- Unit-2 :** Bar charts, pie charts.
- Unit-3 :** Sectional views.
- Unit-4 :** (vi) knuckle thread.
- Unit-5 :** (ii) Hexagonal and square nut and bolt, their proportional dimensional standards.
- Unit-6 : **(Not Deleted)**
- Unit-7 : **(Not Deleted)**

**ENGINEERING DRAWING (PRACTICAL)****Part-A****(Not Deleted)****Part-B**

1. Triangular chart, polar charts, alignment charts from a given problem.
2. **(Not Deleted)**
3. Drawing of sectional view of assembly with screwed fastenings involving nuts and bolts.
4. **(Not Deleted)**
5. Free hand drawing of bearing. Rod-joint, pipe, couplings ..... keys, gears, screw jack.



**ENTREPRENEURSHIP DEVELOPMENT****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)**

- Unit-1 :** \* SME Sector and its role in economic development.  
\* Enterprise and its classification.
- Unit-2 :** \* Market Strategy  
\* Input on resource mobilisation
- Unit-3 :** \* Management : Concepts and process  
\* Marketing management :  
(iii) Product mix.  
\* Human resource management  
\* Operational management
- Unit-4 :** **Not Deleted.**



**GEOGRAPHY****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****A. FUNDAMENTALS OF HUMAN GEOGRAPHY****Unit - I :**

**Chapter - 1 :** Naturalisation of Human and Humanisation of Nature.  
Human Geography through the Corridor of Time.

**Chapter - 2 :** Components of Population Change.  
Spatial Pattern of Population Change.  
Demographic Transition.

**Unit - II :**

**Chapter - 3 :** Age Structure, Age-sex Pyramid, Expanding Population, Constant Population, Declining Population.

**Chapter - 4 :** International Comparison (Countries with high, medium and low index value).

**Unit - III :**

**Chapter - 5 :** No change.

**Chapter - 6 :** The Ruhr Coal-field, Germany

**Chapter - 7 :** No change

**Chapter - 8 :** Trans-Continental Railways  
Inland Waterways.

**Chapter - 9 :** History of International Trade.  
Regional Trade Blocs.

**Unit - IV :**

**Chapter - 10 :** No change.



## **B. INDIA PEOPLE AND ECONOMY**

### **Unit - I :**

- Chapter - 1 :** Composition of Working Population.
- Chapter - 2 :** Spatial Variation of Migration.
- Chapter - 3 :** Indicators of Economic Attainments.  
Indicators of a Healthy Life.  
Indicators of Social Empowerment.  
Population, Environment and Development.

### **Unit - II :**

- Chapter - 4 :** No change.
- Chapter - 5 :** Type of Farming.
- Chapter - 6 :** Watershed Management.  
Rainwater Harvesting.
- Chapter - 7 :** No change.
- Chapter - 8 :** Liberalisation, Privatisation, Globalisation and Industrial development in India.
- Chapter - 9 :** Case Study

### **Unit - IV :**

- Chapter - 10 :** No change.
- Chapter - 11 :** Changing Pattern of the Composition of India's Export  
Changing Pattern of the Composition of Indian Import.

### **Unit - V :**

- Chapter - 12 :** No change.

**GEOGRAPHY PRACTICAL****Unit - I :**

**Chapter - 1 :** No change.

**Chapter - 2 :** Measures of Dispersion, Standard deviation.

**Chapter - 3 :** Flow Maps / Charts.

**Chapter - 4 :** Computer Assisted Mapping

**Unit - II :**

**Chapter - 5 :** No change.



## **GEOLOGY**

### **SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE**

#### **(TOPICS TO BE DELETED)**

#### **Unit-1 : PETROLOGY :**

- (i) Ophitic, Glassy, sheet, amygdaloidal Classification of igneous rocks on the basis of texture.
- (ii) Conglomerate, Grit and Shale.
- (iii) Depth zones of metamorphism (epizone, mesozone, katazone). Marble, Slate.

#### **Unit-2 : INDIAN STRATIGRAPHY :**

Mesozoic stratigraphy of N.E. India, Precambrian of Karnataka.

#### **Unit-3 : ECONOMIC GEOLOGY :**

Silliminite, Limestone.

#### **Unit-4 : GROUND WATER AND ENGINEERING GEOLOGY :**

Selection of bridge site.

#### **Unit-5 : PALEONTOLOGY :**

An outline of the important forms of life (plant and animal) through geological ages.  
Lamellibranchia.

## **GEOLOGY PRACTICAL**

#### **Unit-1 : CRYSTALLOGRAPHY :**

Tetragonal and hexagonal system.

#### **Unit-3 : IDENTIFICATION OF FOLLOWING MINERALS :**

Orthoclase, Tourmaline, Galena, Pyrite, Malachite, Silliminite, Asbestose, Cuprite

#### **IDENTIFICATION OF THE FOLLOWING ROCKS :**

Dolerite, Slate, Marble, Granite-gneiss, Muscovite-Schist, Amphibolites.



## **HISTORY**

### **SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE**

#### **(TOPICS TO BE DELETED)**

#### **PART-I**

- 1. Kinship, Caste and Class (Theme 03)**  
Complete Chapter
- 2. Thinkers, Beliefs and buildings (Theme 04)**  
Can we see every thing?

#### **PART-II**

- 1. Through the eyes of Travellers (Theme 05)**  
Complete chapter.
- 2. Bhakti-sufi Traditions (Theme 06)**  
Difference and conflict, Religious ferment in North India, Reconstructing histories of religious traditions
- 3. Peasants, Zamindars and the state (Theme 08)**  
Complete chapter
- 4. Kings and Chronicles (Theme 09)**  
The painted image, The ideal Kingdom, The Mughal Court, Titles and gifts, The Imperial household, Information and Empire, Beyond the frontiers, The Ottomans; Pilgrimage and trade, Jesuits at the Mughal Court, Questioning formal religion.

#### **PART-III**

- 1. Colonialism and Country Side (Theme 10)**  
Complete chapter
- 2. Colonial Cities, Unhanisation, Planning and Architecture (Theme 12)**  
Complete chapter



**HOME SCIENCE****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****Unit - I :****Chapter-4 : Special Needs of Disadvantaged and Disabled Children**

- (a) Children with missing limbs, Characteristics of children with missing limbs and special needs of children with missing limbs.

**Unit - II :****Chapter-6 : Planning Meals for Family**

- (a) Meal planning for expectant mothers and meal planning for lactating mother.

**Unit - III :****Chapter-10 : Savings and Investments**

- (a) Methods of depositing money in bank.

**Chapter -11 : Consumer Protection and Education**

- (b) Salient features of Consumer Protection Act.

**Unit - IV :****Chapter-15 : Selection of Readymade Garments**

- (a) Needs of taking body measurement, Points to be considered while taking body measurement, Methods of taking body measurement.

**Chapter-16 : Care of Clothes**

- (b) Methods of washing, Drying, storage of clothes – importance, general rules and methods.

**HOME SCIENCE (PRACTICAL)****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)**

- Unit I :** Observe a child in neighbourhood or at home for various milestones of physical and motor developments and prepare a chart.
- Unit-II :** Prepare one dish for pregnant and lactating mother.
- Unit-III :** Prepare one label each for three items or product bearing different standardization marks.
- Unit-IV :** (a) Make an apron and incorporate all the above.  
(b) Examine the quality of readymade garments.  
(c) Make a soap.



**INSURANCE****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)**

- Unit - 1 :** Marine Insurance Act 1963.
- Unit - 2 :** History of Fire Insurance, Distinction between Fire insurance and gambling.
- Unit - 3 :** Classification of risks, Fire tariff and fixation of rate of premium.
- Unit - 4 :** Ex-gratia payment, Rating and average condition and its effect on claim.
- Unit - 5 :** Origin of Marine insurance, Distinction between Marine insurance and Life insurance and Fire insurance.
- Unit - 6 :** Bottomry Bond, Respondentia Bond.
- Unit - 7 :** Distinction between actual and constructive total loss, Partial losses, Particular Average Loss and General Average Loss.
- Unit - 8 :** Fidelity insurance and employer liability insurance.



**LOGIC AND PHILOSOPHY****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****Group-A : Logic****Unit-1 : Induction, Its kind**

- (a) Value of Unscientific Induction
- (b) Value of analogy

**Unit-2 : Grounds of Induction**

- (a) Aristotles view on Causation
- (b) The Doctrine of Plurality of Causes

**Unit-3 : Hypothesis and Its kinds**

- (a) Ad Hoc Hypothesis
- (b) Working Hypothesis

**Unit-4 : Mill's Methods of Experimental Enguiry**

- (a) Method of Concomitant Variations
- (b) Method of Residues

**Group-B : Philosophy****Unit-5 : Realism**

- (a) Natve Realism

**Unit-6 : Idealism**

- (not deleted)

**Unit-7 : Ethics**

- (a) Object of Moral Judgement

**Unit-8 : Religion**

- (a) Religion and Morality





**MATHEMATICS****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****TEXT BOOK : MATHEMATICS (PART-I & PART-II)****Unit-I : 1. Relation and Functions**

Composite functions, Inverse of function and Binary operation

**2. Inverse Trigonometric Functions**

Graphs of Inverse Trigonometric Functions.

**Unit-II : 1. Matrics**

Concept of elementary row and column operations and invertable matrices.

**2. Determinants**

Consistency, inconsistency and number of solutions of system of linear equations by example.

**Unit-III : 1. Continuity and Differentiability**

Mean value theorem (Rolle's theorem and Lagrange's Mean value theorem and their geometric interpretations)

**2. Application of Derivations**

Increasing and decreasing functions

Approximations, Geometrical problems related to Maximum and Minimum values.

**3. Integrals**

Definite integral as the limit of a sum

**4. Application of Integrals**

Area bounded by two curves.

**5. Differential Equations**

Homogenous Equations and  $\frac{dy}{dx} + Py = Q$  where P, Q are functions of x.

**Unit-IV : 1. Vectors**

(Not deleted)

**2. Three-Dimensional Geometry**

Distance of a point from a plane and Angle between line and a plane.

**Unit-V : 1. Linear Programming**

All unbounded problems related to LPP

**Unit-VI : Probability**

Mean and variance of random variable, Repeated independent (Bernoulli) trials and Binomial Distribution



## **MULTIMEDIA & WEB TECHNOLOGY**

### **SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE**

#### **(TOPICS TO BE DELETED)**

#### **Unit 1: ADVANCED COMPUTER SYSTEM**

Database Tool: Using MS-Access, Creating and Saving Table, Defining Primary Key, Inserting and Deleting Column, Renaming Column, Inserting Records, Deleting Records, Modifying Records and Table Relationship.

#### **Unit 2: ADVANCED NETWORKING**

CIDR, Subnetting, CDMA, WLL.

#### **Unit 3: ADVANCED WEB TECHNOLOGY**

Review of HTML/ DHTML/XML, Other equivalent tools-JSP, PHP.

Conversion functions: CSng(), CLng (), CDate()

Manipulation functions: InStr(), RTrim(), LTrim()

Time & Date functions: Left(), Len(), Minute(), Now()

Arrays: 2 dimensional arrays.

Objects: Properties, Methods, Events, Setting object properties, Retrieving object properties, calling objects/methods.

Elementary Database Concepts: Concept of Table/ Relation, Relationship, Candidate Key, Primary Key, Alternate Key, Foreign Key.

#### **Unit 4: MULTIMEDIA AUTHORIZING TOOLS**

Normal/Guide/Mask, Outline Colour, Viewing Layer

As Outline, layer Height.

Frame: Concept of Frame

Symbol Property (Graphics/Button/Movie)

Publishing: Changing publish settings: Producing.

Macintosh Projector (\*.hqx). Testing with publish preview.

**MULTIMEDIA & WEB TECHNOLOGY (PRACTICAL)****1. ADVANCED WEB TECHNOLOGY**

Objects: Response/ Request/ Applications

Corel Draw

Windows Projector/Quick Time

**2. MULTIMEDIA**

Embedding walk through into web pages.



## PERSIAN

### SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE

(TOPICS TO BE DELETED)

TEXT BOOK : MATHEMATICS (PART-I & PART-II)

#### Unit-1 : Language

##### A. Advanced Reading skill

Comprehension of an unseen passage consisting of 120/100 words with  $\frac{3}{4}$  short questions including vocabulary testing

##### C. Applied Grammar

##### (ii) Formation of the following :

(a) Infinitives (Masdar)

#### Unit-2 : Literature :

##### A. Prose

##### (iii) Half paikar

(a) Dastan-i-khair wa shur-Awwal

(b) Dastan-i-khair wa shur-Duam

(c) Dastan-i-khair wa shur-Suam

(v) Tasir-i-Parsi bar Zaban wa

##### B. Poetry

(vi) Kulliat-i-sa'di

(c) Pand-i-Naushirwan ba Harmuz

(d) Yeki Qatra-i-Bran

(viii) Dar Chaman dil-i-murghan jaman

(ix) Kargharwa Karfarma



**PHYSICS****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****Chapter 1: Electric Charges and Fields**

Uniformly charged thin spherical shell (field inside and outside).

**Chapter 3: Current Electricity**

Carbon resistors; Colour code for carbon resistors; Series and parallel combination of resistors.

**Chapter 4: Moving Charges and Magnetism**

Cyclotron.

**Chapter 5: Magnetism and Matter**

Magnetic field intensity due to magnetic dipole (bar magnet) along its axis and perpendicular to its axis; Torque on a magnetic dipole (bar magnet) in a uniform magnetic field;

Para-, dia-, and ferro-magnetic substances with examples; Electromagnets and factors affecting their strength; Permanent magnets.

**Chapter 7: Alternating Current**

Power factor; Wattless current.

**Chapter 8: Electromagnetic Waves**

Basic idea of displacement current.

**Chapter 9: Ray Optics and Optical Instruments**

Reflection of light; Spherical mirrors; Mirror formula;

Scattering of light-blue colour of sky and reddish colour of the sun at sunrise and sunset;

Resolving power of microscope and astronomical telescope; Polarization;

Plane polarised light; Brewster's law; Uses of plane polarized light and Polaroids.

**Chapter 11: Dual Nature of Radiation and Matter**

Davisson-Germer experiment.

**Chapter 13: Nuclei**

Radioactivity; Alpha, beta and gamma particles/rays and their properties;  
Radioactive decay law; Half-life and mean life;  
Binding energy per nucleon and its variation with mass number.

**Chapter 14: Semiconductor Electronics: Materials, Devices and Simple Circuits**

Zener Diode and their characteristics; Zener diode as a voltage regulators.

**PHYSICS (PRACTICAL)**

No investigatory project and Activity to be demonstrated.  
8 Experiments in place of 12.



**POLITICAL SCIENCE****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****Part-A : CONTEMPORARY WORLD-POLITICS**

- Unit-I :** India and the cold war.
- Unit-II :** Other post-communist countries.
- Unit-III :** Dominance and challenge to the US in economy and ideology
- Unit-IV :** Rise of China as an economic power in post-Mao era
- Unit-V :** Conflicts and efforts for peace in South Asia.
- Unit-VI :** How democratic and accountable are the new institutions of global governance?
- Unit-VII :** Politics of disarmament.
- Unit-VIII :** Conflicts over traditional and common property resources.
- Unit-IX :** Debates on the nature of consequences of globalization. Anti-globalization movements.

**Part-B : POLITICS IN INDIA SINCE INDEPENDENCE**

- Unit-I :** First three general elections
- Unit-II :** Nehru's approach to nation-building
- Unit-III :** Famine and suspension of five year plans.
- Unit-IV :** Nehru's foreign policy.
- Unit-V :** Political succession after Nehru, Politics of 'Garibi Hatao'.
- Unit-VI :** Navnirman movement in Gujarat.
- Unit-VII :** Punjab crisis and the anti-Sikh riots of 1984.
- Unit-VIII :** Implementation of Mandal Commission report.
- Unit-IX :** UF and NDA governments. Elections 2004 and UPA government.
- Unit-X :** Ayodhya dispute, Gujarat riots.





**PSYCHOLOGY****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****Chapter 1 : VARIATIONS IN PSYCHOLOGICAL ATTRIBUTTS**

- (i) Triarchic theory of Intelligence (Pages 8-9)

**Chapter 2 : SELF & PERSONALITY**

NIL

**Chapter 3 : MEETING LIFE CHALLENGES**

- (i) Stress and Immun± system (Page 59)
- (ii) Lifestyle (Pages 60-61)

**Chapter 4 : PSYCHOLGICAL DISORDERS**

NIL

**Chapter 5 : THERAPEUTIC APPROACHES**

- (i) Psychodynamic Therapy (Pages 94-96)
- (ii) Existential Therapy (Page 101)
- (iii) Gestalt Therapy (Page 101)
- (iv) Biomedical Therapy (Page 102)

**Chapter 6 : ATTITUDE AND SOCIAL COGNITION**

- (i) Process of Attitude Change (Page 112-114)
- (ii) Attitude Behaviour Relationship (Pages 117-118)
- (iii) Schemas and Stereotypes (Page 120)

**Chapter 7 : SOCIAL INFLUENCES AND GROUP PROCESS**

- (i) Co-operation and competition (Pages 144-146)
- (ii) Social Identity (Pages 146-147)

(iii) Inter group conflict : Nature and causes (Pages 147-148)

(iv) Conflict Resolution Strategies (Pages 148-149)

**Chapter 8 : PSYCHOLOGY AND LIFE**

(i) Impact of television on Behaviour (Pages 173-174)

**Chapter 9 : DEVELOPING PSYCHOLOGICAL SKILLS**

(i) Observational skills (Pages 180-182)

(ii) Interview skills (Pages 188-190)

**PSYCHOLOGY PRACTICAL**

Removal of Case Profile

Removal of any 2 tests out of 5.

**SALESMENSHIP AND ADVERTISING****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****GROUP - (A) FUNDAMENTALS OF SALESMANSHIP****Units**

- 1 : Evaluation of salesmans' performance.
- 2 : Training of salesman.
- 3 : Importance of consumer protection  
Role of consumer organisation and NGO's.
- 4 : (No change)

**GROUP - (B) PABLICITY AND ADVERTISING**

- 5 : Elements of lay-out
- 6 : Competitors' Product Advertising  
Cost relation with other departments,  
Evaluation of effectiveness of advertisement.
- 7 : (No change)
- 8 : Creation of advertising materials, checking.
- 9 : Market research process, techniques and methods.



**SANSKRIT****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****Chapter-1 : Raghuvanmsam, Canto XIII**

From Verse 41 to Verse 57

**Chapter-2 : Srimadbhagavadgita, Canto II**

From Verse 54 to Verse 72

**Chapter-3 : Grammar : समास**

द्वन्द्व and द्विगु



**SOCIOLOGY****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE****(TOPICS TO BE DELETED)****INDIAN SOCIETY**

**Unit-I :** No change

**Unit-II :** (i) Family and Kinship  
(ii) Caste in the past, Colonialism and caste and its characteristics.

**Unit-III :** The Struggle for Women's Equality

**Unit-IV :** (i) Communities, Nations and Nation State  
(ii) Minority Rights & Nation building

**Unit-V :** Process of Cultural Change  
– Westernisation & Secularisation.

**Unit-VI :** Panchayati Raj and the Challenges of Social Transformation  
(Indian democracy– chapter)

**Unit-VII :** Land Reforms

**Unit-VIII :** Globalisation and Social Change

**Unit-IX :** Tribal Movements



## STATISTICS

### SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE

#### (TOPICS TO BE DELETED)

##### Unit-1 : Calculus of Finite Difference

- ❖ Idea of Numerical Integration
- ❖ General Quadrature Formula
- ❖ Statement and Application of Trapezoidal Rule, Simpson's  $1/3$ rd Rule and Simpson's  $3/8$ th rule along with the conditions under which they are derived.

##### Unit-2 : Theory of Probability

- ❖ Empirical and Axiomatic definition of Probability.
- ❖ Generalized Addition Rule of Probability (Upto 3 events).
- ❖ Representation of discrete probability distribution.
- ❖ Probability curve of a continuous distribution.
- ❖ Derivation of Poisson distribution.
- ❖ Derivation of Poisson distribution as a limiting form of Binomial distribution.
- ❖ Derivation of distribution of standard normal variate.

##### Unit-3 : Elementary Theory of Sampling and Test of Significance

- ❖ Large sample tests for differences of two means.
- ❖ Large sample test for proportion.
- ❖ Students' t-test for difference of two means.
- ❖ Paired t-test.
- ❖ Examples on use of frequency  $\chi^2$  (chi-square) for testing independence of attributes in  $2 \times 2$  table.

##### Unit-4 : Sample Survey

- ❖ Method of selection of SRS making use of Table of Random Numbers.
- ❖ Idea of Stratified Random Sampling.
- ❖ Estimation of population mean (method of allocation not included)
- ❖ Preparation of Questionnaire and Schedule.
- ❖ Idea of Pilot survey



**স্বদেশ অধ্যয়ন****SYLLABUS FOR HIGHER SECONDARY SECOND YEAR COURSE  
(TOPICS TO BE DELETED)****প্রথম ভাগ : ভূগোল**

প্রথম অধ্যায় :

অসমৰ মাটি (পৃষ্ঠা নং ৯-১০)।

দ্বিতীয় অধ্যায় :

ধৰ্মীয় জনগাঁথনিৰ পৰিৱৰ্তন, ভাষিক জনগাঁথনিৰ পৰিৱৰ্তন।

তৃতীয় অধ্যায় :

একেই থাকিব।

চতুৰ্থ অধ্যায় :

সম্পদৰ শ্ৰেণীবিভাগ।

পঞ্চম অধ্যায় :

মানচিত্ৰৰ ইতিহাস।

জৰীপ।

## দ্বিতীয় ভাগ : ইতিহাস

ষষ্ঠ অধ্যায় : ইয়াণ্ডাবু সন্ধি, পৰিক্ৰমা, চৰ্তাৱলী আৰু ফলাফল, ঐতিহাসিক পৰিক্ৰমা : আহোম শাসনৰ অৱনতি

ইয়াণ্ডাবু সন্ধিৰ পটভূমি, মিলচৰ প্ৰতিবেদন, অসম এছ'ছিয়েশ্বনৰ গুৰুত্বপূৰ্ণ পদক্ষেপসমূহ, মণ্টেগু-চেমচ ফোৰ্ড সংস্কাৰ আৰু অসম, অসহযোগ আন্দোলন, ঘূৰণীয়া মেজমেল, ভাৰত ত্যাগ আন্দোলনৰ পটভূমি, স্বৰাজ্যোত্তৰ ভাৰতীয় ৰাজনীতি আৰু অসম, অসমৰ আৰ্থ-ৰাজনৈতিক অৱস্থা।

সপ্তম অধ্যায় : অসমৰ জনসংখ্যা বিস্তাৰণ আৰু বিদেশী নাগৰিক প্ৰসংগ

অসমলৈ বাহিৰাগত আগমণৰ ৰূপৰেখা, চাহ বনুৱাৰ আগমণ, অসমৰ জনজীৱন আৰু সংস্কৃতিত অনুপ্ৰৱেশকাৰীৰ প্ৰভাৱ।

অষ্টম অধ্যায় : (ক) প্ৰাক-বৃটিছ যুগৰ অসমৰ শিল্প উদ্যোগ

পলু পোহা আৰু বোৱা-কটা শিল্প, তাঁতশালত বোৱা-কটা, সোণ কমোৱা শিল্প, সোণ কমোৱা পদ্ধতি, ৰূপ কমোৱা শিল্প, কাঠৰ শিল্প, সাঁচিপাত আৰু মহী প্ৰস্তুত শিল্প, নাও তৈয়াৰ শিল্প, বঞ্জৰ শিল্প, খাৰ তৈয়াৰ কৰা শিল্প, হাতী দাঁতৰ শিল্প, চূণ তৈয়াৰ কৰা শিল্প, লা তৈয়াৰ কৰা শিল্প, বহু তৈয়াৰ কৰা শিল্প, অন্যান্য শিল্প।

(খ) বৃটিছ যুগৰ অসমৰ শিল্প উদ্যোগ

জীৱন আৰু সংস্কৃতিত ঔদ্যোগিক বিকাশৰ প্ৰভাৱ।

নৱম অধ্যায় : ভাৰতৰ পাৰিপাৰ্শ্বিক আন্দোলন আৰু অসমৰ পাৰিপাৰ্শ্বিক পৰিৱৰ্তনসমূহ

মাজুলী, আহোম যুগৰ অসমৰ প্ৰকৃতি, আহোম যুগৰ বন বিষয়াসকল আৰু হাতী, পাইকপ্ৰথা, চাহ খেতিৰ আদি কথা, পাট-মুগা, ভূমি, বন আৰু নদী বিষয়ক বৃটিছৰ পাৰিপাৰ্শ্বিক আঁচনি আৰু ইয়াৰ প্ৰভাৱ, হাতী ধৰা নীতি, ১৯৪৭ চনৰ পৰৱৰ্তী কালৰ অসমৰ পাৰিপাৰ্শ্বিক পৰিৱৰ্তন : কাৰণ, প্ৰকৃতি আৰু প্ৰভাৱ, পৰিবেশ সজাগতা আৰু ভাৰতীয় পৰিবেশ আন্দোলনৰ সংক্ষিপ্ত ইতিবৃত্ত।

