Syllabus

Skill Enhancement Courses

for

Four-Year Undergraduate Programme (FYUGP)

2023-24 Academic Session:: Second Semester

Gauhati University

Gopinath Bardoloi Nagar :: Guwahati-14

Skill Enhancement Courses (SEC) Syllabi for

Four-Year Undergraduate Programme

2023-24 Academic Session:: Second Semester

Gauhati University

Gopinath Bardoloi Nagar, Guwahati- 781014

List of Courses for Second Semester

- **ONLY the RED Coloured Titles are having Detailed Syllabus. These (Titles in Red) Courses only are to be offered in the Current (Second) Semester: 2023-24 Academic Session.**

Sl.	Skill Course Name	Paper Code	Credit	Evaluation
1	Academic Reading in English	SEC0200103	3	40-60
2	Advertising and Public Relations	SEC0200203	3	40-60
3	Analytical Clinical Biochemistry	SEC0200303	3	40-60
4	Android App Development	SEC0200403	3	40-60
5	Animation and Media Design	SEC0200503	3	40-60
6	Art of Acting: BUILDING A CHARACTER	SEC0200603	3	40-60
7	Basic Programmin in C++	SEC0200703	3	40-60
8	Basic Skills on Archives and Museum Management	SEC0200803	3	40-60
9	Basic Skills on Electronic Equipment	SEC0200903	3	40-60
10	Basic Skills on Historical Tourism in North-East India	SEC0201003	3	40-60
11	Basics of Adobe Pagemaker	SEC0201103	3	40-60
12	Basics of Scriptwriting I	SEC0201203	3	40-60
13	Biofertilizers	SEC0201303	3	40-60
14	Biofertilizers and Biopesticides	SEC0201403	3	40-60
15	Business Leader/ Multi Outlet Retailer	SEC0201503	3	40-60
16	Byabaharik Asomiya	SEC0201603	3	40-60
17	বাংলাভাষাওসাহিত্য-পাঠপদ্ধতিওসাহিত্যেররূপান্তর	SEC0201703	3	40-60
18	Catering Technology and Hotel Management	SEC0201803	3	40-60
19	Commercial Clothing	SEC0201903	3	40-60
20	Commercial Correspondence in Persian	SEC0202003	3	40-60
21	Computer Assembling and Networking	SEC0202103	3	40-60
22	Computer Oriented Financial Accounting	SEC0202203	3	40-60
23	CONFLICT AND PEACE BUILDING	SEC0202303	3	40-60
24	Costume and Textile Design of the Bodos	SEC0202403	3	40-60
25	Creative Writing	SEC0202503	3	40-60
26	Creative Writing in Persian	SEC0202603	3	40-60
27	Critical Thinking	SEC0202703	3	40-60
28	CV Writing and Interview Skills	SEC0202803	3	40-60
29	Cyber Ethics	SEC0202903	3	40-60
30	Developing Emotional Competence	SEC0203003	3	40-60
31	DEVELOPING TEACHING SKILLS	SEC0203103	3	40-60
32	Drama and Mime	SEC0203203	3	40-60
33	DTP	SEC0203303	3	40-60
34	DUCK RAISING AND BUSINESS	SEC0203403	3	40-60
35	E-Commerce	SEC0203503	3	40-60

36	Educational Psychology	SEC0203603	3	40-60
37	ELT Skill-2	SEC0203703	3	40-60
38	Emotional Intelligence	SEC0203803	3	40-60
39	English Reading & Comprehension	SEC0203903	3	40-60
40	Envirnmental Impact Assessment	SEC0204003	3	40-60
41	Environmental Geology	SEC0204103	3	40-60
42	Enzymology	SEC0204203	3	40-60
43	Extension Activities	SEC0204303	3	40-60
44	Farm Management	SEC0204403	3	40-60
45	Fishery Management	SEC0204503	3	40-60
46	Floristic Methods of Vegetation Description	SEC0204603	3	40-60
47	Folk Music of Goalpara	SEC0204703	3	40-60
48	Food Fermentation Techniques	SEC0204803	3	40-60
49	Fundamentals of Ecology & Wildlife Management	SEC0204903	3	40-60
50	FRONT OFFICE MANAGEMENT	SEC0205003	3	40-60
51	Fundamentals of Social Statistics	SEC0205103	3	40-60
52	Gardening	SEC0205203	3	40-60
53	Geo Chemistry	SEC0205303	3	40-60
54	Geographical Information Systems	SEC0205403	3	40-60
55	Geoinformatics in Geology	SEC0205503	3	40-60
56	Guest Relation Executive	SEC0205603	3	40-60
57	Herbal Technology	SEC0205703	3	40-60
58	Heritage Study of India	SEC0205803	3	40-60
59	Hindi Advertisement	SEC0205903	3	40-60
60	Hindi Patrakarita	SEC0206003	3	40-60
61	Historical Tourism in North East India	SEC0206103	3	40-60
62	HTML Programming	SEC0206203	3	40-60
63	Intellectual Property Rights	SEC0206303	3	40-60
64	Introduction to COREL Draw	SEC0206403	3	40-60
65	Introduction to Drug Delivery System	SEC0206503	3	40-60
66	Karyalini Anuvad in Hindi	SEC0206603	3	40-60
67	Laptop/Desktop/Tab/Mobile/DSLR Repairing	SEC0206703	3	40-60
68	LaTeX	SEC0206803	3	40-60
69	Management of Human Microbial Diseases	SEC0206903	3	40-60
70	MANIPURI TRANSLATION	SEC0207003	3	40-60
71	Manuscript Preparation in Bodo	SEC0207103	3	40-60
72	Marketing of Indigenous Agricultural Products	SEC0207203	3	40-60
73	Maternal and Child Nutrition	SEC0207303	3	40-60
74	Measurement & Evaluation in Sports	SEC0207403	3	40-60
75	Medicinal Botany	SEC0207503	3	40-60
76	Microbial Diagnosis in Health Clinics	SEC0207603	3	40-60
77	Microsoft Excel (Advance)	SEC0207703	3	40-60
78	Natyakala- Abhinay Kaukhal aru Rasanasoili	SEC0207803	3	40-60

79	Nepali Anubad Sahitya	SEC0207903	3	40-60
80	New Venture Planning	SEC0208003	3	40-60
81	Open Source Software	SEC0208103	3	40-60
82	Operation Theater Technology & Dialysis	SEC0208203	3	40-60
83	Oral Culture and Oral History	SEC0208303	3	40-60
84	Pandulipi Prostuti in Bengali	SEC0208403	3	40-60
85	Personal Selling and Salesmanship	SEC0208503	3	40-60
86	Pharmaceutical Chemistry	SEC0208603	3	40-60
87	Photogeology and Remote Sensing	SEC0208703	3	40-60
88	Plant diseases and their Management	SEC0208803	3	40-60
89	Practical Assamese-1	SEC0208903	3	40-60
90	Preparation of Lesson Plan	SEC0209003	3	40-60
91	Print Journalism Production	SEC0209103	3	40-60
92	Proofreading	SEC0209203	3	40-60
93	PSYCHOLOGY IN EDUCATION	SEC0209303	3	40-60
94	Public Speaking Skill	SEC0209403	3	40-60
95	Radio Programme Production	SEC0209503	3	40-60
96	Remote Sensing, GIS and GPS	SEC0209603	3	40-60
97	Research and Technical Writing	SEC0209703	3	40-60
98	Sakhyatkar- Prastuti aru Karyakarita	SEC0209803	3	40-60
99	SANSKRIT GRAMMAR and TRANSLATION	SEC0209903	3	40-60
100	Science Communication	SEC0210003	3	40-60
101	SERICULTURE AND ITS PROSPECTS	SEC0210103	3	40-60
102	Soft Skill-2	SEC0210203	3	40-60
103	Spoken Arabic-2	SEC0210303	3	40-60
104	Sports Technology	SEC0210403	3	40-60
105	Statistical Techniques for Research Methods	SEC0210503	3	40-60
106	Statistical Techniques in Geography	SEC0210603	3	40-60
107	Surface Ornamentation	SEC0210703	3	40-60
108	Technical Drawing	SEC0210803	3	40-60
109	Technical Writing	SEC0210903	3	40-60
110	Techniques in Social Research	SEC0211003	3	40-60
111	Testing and Calibration	SEC0211103	3	40-60
112	Textile Processing	SEC0211203	3	40-60
113	Translation : Principles & Practice	SEC0211303	3	40-60
114	Vermicomposting and Organic Farming	SEC0211403	3	40-60
115	Video and Photo Editing	SEC0211503	3	40-60
116	Visual Merchandiser	SEC0211603	3	40-60
117	Web Designing	SEC0211703	3	40-60
118	Wildlife photography and Ecotourism	SEC0211803	3	40-60
119	Proof Sangshodhan in Bengali	SEC0211903	3	40-60
120	French Language, Level-II	SEC0212003	3	40-60

Detail Syllabi

1	**Academic Reading in English**	**SEC0200103**	**3**	**40-60**

Department of English Language Teaching
Gauhati University

Academic Reading in English

FYUGP Year 1 Semester
Skill Enhancement Course (SEC)

Level: 100-199	**Total marks:100 (External:80 + Internal: 20)**	**Nature of Course: Skill Enhancement Course**	**No. of Theory Credits: 3 No. of classes: 36**

Medium of instruction: English (However, local languages will be used in the class along with English for ease of students' understanding.)

Course Description

This course introduces students to basic skills in reading required for success in academic studies. It prepares students to read effectively for various purposes based on their needs. It provides practice in using reading strategies such as reading for specific information, reading to get an overall idea and to read for details that will help the students read the texts of their own discipline more effectively and efficiently. It also equips students with important reading skills such as reading for important points, inferencing and critical reading that will help them comprehend both simple and complex passages across disciplines.

Graduate attributes/Learning outcomes

After completing the course the students will be able to:

- demonstrate their understanding of using effective reading strategies
- identify the purpose for reading
- locate specific information in a text
- identify discourse markers

- distinguish different types of text structures
- interpret graphical information form a text
- compare viewpoints expressed in a text
- participate in group discussions confidently

Pre-requisites

There are no prerequisites for this course.

Mode of delivery

Interactive lectures using class discussion, personalized topics, exercises and activities based on class texts and real-life language contexts, collaborative pair and group work, and sharing of feedback. Interactions and discussions can take place in blended mode, through face-to-face classroom teaching and online platforms such as Google Classroom.

Evaluation plan

This course will be assessed through an External(summative) of 80 marks and an Internal (formative) component of 20 marks.

The Internal assessment will be formative, and will be conducted throughout the semester through internal evaluation. It will comprise class assignments, home assignments, participation in class discussions, oral presentations etc. to measure how well students are learning.

Summative assessment will be conducted through a written External examination of 80 marks at the end of the semester to evaluate how far students are able to use the skills and strategies practised in the course.

Course Content

Units	Topics	Credit Hours
1.	What involves Academic Reading? ● Active reading ● Strategies for effective reading ● Purpose for reading ● Making predictions ● Surveying the text: organisation, style etc. ● Interacting with the text (using effective strategies)	2
2	Reading strategies: scanning ● Purpose (Why) ● Identifying the text (looking for keywords, phrases, etc,) ● Reading quickly ● Determining the relevance ● Reading in detail	4
3	Reading Strategies: skimming ● Purpose (Why) ● Getting a general idea ● Reading conclusions, summaries ● Reading topic sentences for main idea	4
4	Reading strategies: reading for details ● Close reading ● Reading each sentence carefully ● Contextualising words	5
5	Reading for important points ● Identifying discourse markers ● Identifying topic sentences and supporting details	5
6.	Making inferences ● Identifying text structure ● Using context clues ● Collocations	4
7.	Reading graphical representations ● Types ● Identify what the graph represents ● Locating specific information ● Mapping textual information with the graph	3

6.	Critical reading ● Identifying forms of arguments ● Identifying text discourse (disciplinary variations) ● Comparing viewpoints	6
7.	Making notes ● Why do we make notes? ● When do we make notes? ● What are the different types of notes?	3
	Total Hours	**36**

References:

Driscoll, L. (2008). *Real Reading 2*. Cambridge University Press

Soar, (2012). *Headway Academic Skills: 1. Reading, Writing, And Study Skills Student'S Book*. Oxford University Press

Glendinning, E. & Holmstrom, B. (2004). *Study Reading 2ED: A Course in Reading Skills for Academic Purposes (Study Skills).* Cambridge University Press

Richards, J.C. (2003). *Strategic Reading 2: building effective reading skills*. Cambridge University Press

Rogers, L. & Chazal, E. (2013). *Oxford EAP: intermediate*. Oxford University Press

https://www.youtube.com/watch?v=RtcXr0_201A

https://www.youtube.com/watch?v=u5-EIeXskOs

https://www.youtube.com/watch?v=Dy69pPGDeIg

Course developers:

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Syllabus 2

SEC: SEC0200103

PAPER TITLE: ACADEMIC READING IN ENGLISH

Credit: 3

Introduction to the Course: Reading as language skill or an activity hardly draws serious academic attention in the context of Indian classrooms and hence appears as one of the most negligible or ignored aspects, especially for tertiary level students. Teachers in HEIs assume that students are already well versed in reading and students hold the impression that there is only one way to read. But there are multiple ways and strategies for learning to read that can lead to better information processing by saving time. Academic reading is nothing but an act of performance. Students should know that quality information originates in reputable sources. Academic reading in English refers to reading as a special kind of activity and "how to read" demands urgency. This course aims at enabling the students to be independent readers. Teachers will try to hone the potentials of the students with a view to applying these skills for diverse reading acts. Of course, focus should be on reading for academic purposes. This paper will lead the students for thinking reading as a part of habit formation in academic and non-academic contexts. Effective reading strategy not only motivated the students towards quality information processing but develops an urge for critical thinking. Academic reading makes students respond to the information or viewpoints that the texts seek to convey. By this skill, students will be entitled to respond to a text (literary or non-literary) cognitively and make mental notes for future use. The paper will lay a foundation for any future academic pursuit you may choose to undertake later.

Course Objectives: The paper aims

i. To prepare students towards independent reading.

ii. To engage the students through reading in effective meaning making process.

iii. To generate interests in the learners for career prospects as an effective reader in diverse sectors.

iv. To integrate language skills development in content courses.

v. To facilitate the students for close reading of texts for critical thinking

vi. To make students enable to use reference sources (electronic dictionaries, thesauri, glossaries etc) for learning to read.

Course Learning Outcomes: Students will be able to apply reading strategies in understanding texts of diverse genres. They will explore the stated or implied main idea and the supporting ideas in basic academic texts, charts, graphs etc. Students can also think about future careers in the field of emerging job sectors.

Course Contents:

Unit-1: Reading for Different Purposes and Contexts: (Reading for aesthetic pleasure, Reading newspapers, magazines, blogs for access of current information or reading for fun, Reading notices, announcements for information, Reading textbooks or reference materials, Reading official documents for specific purpose, Reading business texts and advertisements, Reading seminar papers, reading legal documents.

Unit-2: Reading Strategies (Mapping, Outlining, Paraphrasing etc. in understanding academic texts.), Circling Keywords, Underlining unfamiliar phrases and terms, highlighting key concepts, writing notes in course of reading, reflecting etc., Previewing (read the title, the back of the book and table of contents), Keep pen and pencil in hand while reading, Write questions or comments in the margins or in a notebook. Summarizing or Jotting down the main ideas grasped during reading. Reviewing, Construction of a mental framework that holds new information in an organized way, Predicting answers by reading, Applying reading skill for various resources used in course of conducting research.

Unit-3: **Styles of Reading: Scanning, Skimming, Detailed Reading, Intensive Reading & Extensive Reading**

Unit-4: **Vocabulary Building Techniques**: Familiarization with terminology in different disciplines, Incorporation of Vocabularies from reading towards enhancement of speaking and writing skill.

(Students should be engaged in more advanced level reading activities by preparing lesson plans)

Reading list:

1. Tamuli, Anita : English Language for Undergraduate Students, Cambridge University Press

2. Jordan, R.R (1997). English for Academic Purposes: A Guide and Resource Book for Teachers, Cambridge University Press.

3. Greenall, S. & Michael,S.(2001). Effective Reading: Reading Skills for Advanced Students. Cambridge University Press.

4. Bailey, S.(2004). Academic Writing: A Practical Guide for Students .London: Routledge.

Designed by

1. Dr Arup Sarma, Assistant Professor & HoD, English, Chilarai College
2. Mainul Hoque, Assistant Professor, English, Chilarai College
3. Sujan Barman, Assistant Professor, English, Chilarai College
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3	**Analytical Clinical Biochemistry**	**SEC0200303**	**3**	**40-60**

Analytical Clinical Biochemistry

Paper Code: SEC0200303

Total lectures:35

(Total Credits: 03, Theory: 02 and Practical: 01)

Course objective: This course is intended to apprise students of various clinically relevant biomolecules, their structures, and physiological roles. Students are also expected to learn the basics of analysis of pathological samples (blood and urine).

Course outcome: Students will be able to identify various molecules relevant to a particular pathological condition and their estimation protocols.

Theory

Unit 1 10 lectures

Carbohydrates: Biological importance of carbohydrates, metabolism, the cellular currency of energy (ATP), glycolysis, alcoholic and lactic acid fermentations, Krebs cycle, Isolation and characterization of polysaccharides.
Proteins: Classification, biological importance, primary and secondary, tertiary and quaternary structures of proteins: α-helix and β- pleated sheets, denaturation of proteins.

Unit 2 06 lectures

Enzymes: Mechanism of enzyme action, effect of pH, temperature on enzyme activity, enzyme inhibitors, coenzymes, and cofactors,biocatalysis.
Lipids: Classification, biological importance of triglycerides and phosphoglycerides and cholesterol, lipid membrane, liposomes.

Unit 3 06 lectures

Structure of DNA (Watson-Crick model) and RNA, biological roles of DNA and RNA, replication, transcription, and translation, genetic code.

Unit 4 05 lectures

Urine: Collection and preservation of samples, formation of urine, composition, and estimation of constituents of normal and pathological urine.

Blood: Composition and functions of blood, blood coagulation, blood collection and preservation of samples, anemia, regulation, estimation, and interpretation of data for blood sugar, urea, creatinine, cholesterol, and bilirubin.

Practicals: (any four) 08 lectures

Identification and estimation of the following:

1. Isolation of protein from milk
2. Isolation of DNA from onion/cauliflower/peas
3. Determination of the iodine number of oil.
4. Separation of amino acids by chromatography.
5. Determination of the saponification value of an oil or fat
6. Determination of concentration of protein by the Biuret reaction.

Recommended Books:

1. David L. Nelson and Michael M. Cox: Lehninger Principles of Biochemistry
2. T.G. Cooper: Tool of Biochemistry.
3. Keith Wilson and John Walker: Practical Biochemistry.
4. Alan H Gowenlock: Varley's Practical Clinical Biochemistry.
5. Thomas M. Devlin: Textbook ofBiochemistry.
6. Jeremy M. Berg, John L Tymoczko, LubertStryer:Biochemistry.
7. G. P. Talwar and M Srivastava: Textbook of Biochemistryand Human Biology.
8. O. Mikes, R.A. Chalmers: Laboratory Handbook of ChromatographicMethods.

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6	**Art of Acting: BUILDING A CHARACTER**	**SEC0200603**	**3**	**40-60**

Art of Acting: BUILDING A CHARACTER

Skill Course: ART OF ACTING

Semester-2

Paper 2: 'BUILDING A CHARACTER'

Total Credits=3

Total Marks=100

Theory=30, Practical=50, Internal=20 (Sessional=10, Practical Demo=6, Attendance=4)

Course Objective:

This is a skill course for students who want to learn skills of acting across various media – theatre, feature films, advertisements, documentaries, short films, television/OTT series, etc. This paperseeks to build up essential performanceskills in theatre: communication, control over body, mind and voice; emotional rendering, versatility, language skills etc. in order to negotiate with themes and narratives and build the characterization through the skills acquired.

There will be no rigid demarcation between theory and practical classes as the idea is to develop practical knowledge.

Course Learning Outcome: This course will enable the students -

i. To intensely involve immerse themselves in their roles through a reading of specific scripts.
ii. To hone their body, voice & diction to render clarity to their performance in different media.
iii. To understand the tools of the actor in order to build a given character.

Course Content:

THEORY: CREDITS – 1: MARKS –30; PRACTICAL: CREDITS – 2; MARKS – 50

UNIT I:The Actor's Body (theory and practice)

- Understanding the Actor's Body
- Voice & Music:
  - Speech: Enunciation, Clarity & Diction
  - Speech: Accents and Dialects
  - Singing:To develop voice range, scale, rhythm etc.
- Body Movement & Yoga: To develop flexibility of body, impulse, reflexes.
- Introduction to Dance / Dance Theatre

UNIT II: Characterization& Improvisation(theory and practice)

- **The Text:**
  - Scriptreading andAnalysis
  - Character Analysis and Graph
  - Texts (any onecharacter each from one film and one play)
    - William Shakespeare,*Macbeth*
    - Arun Sarma, *Siyor*
    - Mohan Rakesh,*AshadKaEk Din*

        - Anton Chekhov,*The Cherry Orchard*
        - Sofia Coppola, *Lost in Translation*
        - RiteshBatra, *The Lunchbox*

- **Actor's Preparation:**
    - The Embodied Voice
    - Acting: Scene Study
    - Movement: Exploration

- **Improvisation Skills:**
    - *Active listening*
    - *Being in the moment*
    - *Following intuition and making strong choices*
    - Spontaneity in Action & speech

<u>UNIT III</u>: ACTIVITY [this component may require the student to put in extra hours]

- Body,Voice & Movement Workshop (Theatre)
- Body, Voice & Movement Workshop (Film)
- Term-end Performances

<u>Suggested Reading:</u>

Sonia Moore, *The Stanislavsky System*
Badal Das,*NatyakalaaruAbhinoySilpo*
Bruce Bartlett and Jenny Bartlett,*Practical Recording Techniques*
Tarit Choudhury,*Manchakala*
Robert Blumenfeld,*Acting with the Voice*
James Thomas*Script Analysis for Actors, Directors and Designers*
Moni Yakim*, Creating a Character: A Physical Approach to Acting*

NOTE ON PEDAGOGY, EXAMINATION & GRADING:

Teaching Modes: This is a skill course and therefore most of the theory components are also expected to be taught through the experiential mode – where theory would be taught both through given texts and practical work. Students may be divided into groups and work distributed.

EXAMINATION & GRADING:

- There will be a term-end theory (written) examination where students will have to answer questions from the various units taught (20 marks) and to write an essay on any of the roles they have chosen to play (10 marks).

- Students will have to vocalize their character analysis of any one role (10 marks) after acting out a particular monologue.
- Students will have to dissect and analyse a scene they have interpreted and performed from any of the prescribed texts (10 marks). They can work solo, in pairs and groups of three/four.
- All Workshops will end with an objective-type examination (10 marks)
- A term-end Performance / Production will carry 20 marks and will involve the entire class. Suitable play-texts / film scripts must be identified to enable this. Students will be marked on the basis of involvement, creativity and ingenuity.

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7	**Basic Programmin in C++**	**SEC0200703**	**3**	**40-60**

FYUGP, SEC syllabus, 2nd Semester
SEC0200703: Basic Programming in C++

Credit: 3 **Evaluation: 40-60**

Program Outcome (PO):

Students, who choose FYUGP SEC Computer related Programme will develop the ability to think critically, logically, analytically and to use and apply current technical concepts and practices in the core development of solutions in the form of Information Technology. The knowledge and skills gained with a FYUGP graduates for a broad range of jobs in Education sector, Research field, Government sector, Business sector and Industry.

Hands on sessions in Computer Lab using C++ Programming languages and tools will enable students to deal with real life problems which will lead to better understanding of the topics and will also widen the horizon of students' self-experience.

Program Specific Outcomes (PSOs) :

Completion of FYUGP SEC Programme shall enable a student:–

(1) An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
(2) Apply the knowledge gained in Computer related SEC courses to a broad range of advanced topics in Computer Science & IT, to learn and develop sophisticated technical products independently.

(3) To design, implement, and evaluate computer-based system, process, component, or program to meet desired needs by critical understanding, analysis and synthesis.
(4) Identify applications of Computer Science in other related fields in the real world to enhance the career prospects.

Course Outcome (CO):

On successful completion of this subject the students have the Basic fundamental concepts of the Computer Programming ability in C++ Language.

This paper helps students to inculcate knowledge on the basic concepts of C++ programming includes arrays, structures, function, strings, and files.

- Understand the basic terminology used in computer programming.
- Write, compile and debug programs in C++ language.
- Create programs involving decision structures & unions, loops, strings and functions.
- Design programs involving structures and pointers.

Course Designer:

Dr. Masih Saikia, HoD, CSC Department,

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Detail Syllabus:

Unit-1: Data Types, Variables, Operators and Statements

C++ Character Set, Concept of Data-types, Identifiers and Keywords, Variables (declaration and initialization), Constants: (String, Numeric, and Character Constants), Operators: (Arithmetic, Assignment, Increment and Decrement, Comparison/Relational, Logical, Bitwise, Special Operators), Type Conversion.

Unit-2 : Writing a Program in C++

Declaration of Variables, Statements, Simple C++ Programs, Features of iostream.h, Keyboard and Screen I/O, Using I/O Operators: (output operator "<<", Input operator ">>") Cascading of I/O operators.

Unit-3 : Control Statements / Flow of Control

Conditional Expressions/Selection Statements: (if, if-else, switch-case-default statements), Iteration/Loop Statements: (for, while, do-while loops, nested loop), Breaking Control/Jump Statements: (break, continue, goto statement, exit( ) function)

Unit-4 : Functions and Program Structures

Defining of a Function, return statement, Types of Functions, Accessing a Function : Actual and Formal Parameters/Arguments, Local and Global Variables. Default Arguments, Multi-function Program, Recursive Function. Common C++ Preprocessor directives, Header Files: (stdio.h, iostream.h, ctype.h, strings.h, maths.h, stdlib.h)

Unit-5 : Arrays

Array Notation, Array Declaration, Array Initialization, Processing with Array, Array and Functions, Multi-dimensional Arrays.

Unit-6 : Character handling in C++ and Strings

Character Array, Declaration of String variables, Reading strings, String handling [without using library functions] : (1) finding the length of the string, (2) String concatenation, (3) String reverse, (4) String copy, (5) Combining/Joining strings together, (6) String comparison, (7) Extraction of a string from another string. Using of the String handling C++ library functions: strcpy(), strcat(), strlen(), strcmp().

Unit-7 : Structure and Union

Declaration of Structure, Initialization of Structure, Referencing Structure Elements, Arrays of Structures, Arrays within a Structure, Unions, typedef keyword.

Unit-8 : Data File Handling in C++

Input/Output operations on files, Opening and Closing of Files, Writing and Reading Characters using put() and get() functions, Binary input/output file operation using read() and write().

Unit-9:

Concept of objects and classes. structure versus class, member functions, simple example of classes with member function.

Practical / Lab work to be performed

(N.B: Student has to perform **any twenty** of the following experiments**)**

1. Write a C++ program to find the maximum, minimum and sum of n given numbers without using array.
2. Write a C++ program to print Multiplication Table of a given number.
3. Write a C++ program to input number of Week's day (1-7) and translate to its equivalent name of the day of the week (e.g., 1 to Sunday, 2 to Monday, … 7 to Saturday).
4. Write a C++ program to perform Arithmetic Calculator using switch-case statement. This Program inputs two operands and an operator and then displays the calculated result.
5. Write a C++ program for Temperature conversion that gives the user the option of converting Fahrenheit to Celsius or Celsius to Fahrenheit and depending upon the user's choice carries out the conversion.

6. Write a C++ program to calculate area of a Circle, a Rectangle or a Triangle depending upon the user's choice.

7. Write a C++ program to checks whether a given number is Palindrome or not.

8. Write a program in C++ to calculate **Factorial** of a number : (i) using *recursion*, (ii) using *iteration*

9. Write a program in C++ to display **Fibonacci** series (i) using *recursion*, (ii) using *iteration*

10. Write a function in a C++ program to find the **L.C.M.** and **G.C.D.** of given two numbers.

11. Write a program in C++ to find the sum of the digits of given number.

12. Write a C++ program to check whether a given number is **Armstrong** number or not.

    (Hint : Armstrong number is one which is equal to the sum of cube of the individual digits.

    For example : 153 = 1^3 + 5^3 + 3^3 = 1 + 125 + 27 = 153)

13. Write a C++ program to check whether a given number is a **Perfect** number or not.

    (Hint : Perfect number is one which is equal to the sum of its factors.

    For example : Factors of 28 : 1, 2, 4, 7, 14. Sum of the factors of 28 = 1+2+4+7+14 = 28)

14. Write a C++ program to find the Roots of a Quadratic Equation. Include all possibilities.

15. Write a C++ program to check whether a given number is prime or not using exit() function.

16. Write a C++ program to print the first 'n' prime numbers.

17. Write a C++ program to sort the elements of an array (one-dimensional) in ascending order [use 'Bubble sort' method].

18. Write a C++ program to merge two arrays after eliminating duplicate elements.

19. Write a C++ program to transpose a matrix.

20. Write a C++ program to multiply two matrices of order L×M and M×N.

21. Write a C++ program to find row sum and column sum of an N×M matrix.

22. To demonstrate the use of three-dimensional array, write a C++ program to input semester wise marks of different papers for different test exams. (Say you have 2 semesters; 4 subjects per semester; and 3 tests per subject). Now display (i) paper-wise total marks, (ii) Semester-wise total marks and (iii) Grand total of the Marks awarded to the student.

23. Write a C++ program to convert number into words. (say when you input 3926, you will get the output as THREE THOUSAND NINE HUNDR AND TWENTY SIX ONLY)

24. Write a function in a C++ program to find the maximum number in an array.

25. Write a program in C++ to demonstrate the use of some of the frequently used mathematical functions (say sqrt(), pow(), exp(), sin(), cos(), tan(), log(), abs(), fabs(), floor(), ceil()]

26. Write a program in C++ to convert a Binary number to a Decimal:

27. Write a program in C++ to convert Decimal number to any base.

28. To demonstrate the use of two-dimensional array of strings, write a C++ program to input a few strings (say input the names of 5 different Cities), sort them, and display the strings in alphabetical order.

29. Write a program in C++ to find and replace a string.

30. Write a program in C++ to check whether a given string is palindrome or not.

31. Write a C++ program to find number of vowels in a given line of text.

32. Write a program in C++ to count the number of letters and words in a given string.

33. Write a program in C++ to compute the **sine** series :

    sin(x) = x – (x^3)/3! + (x^5)/5! – .. (x^n)/n!

34. Write a C++ program to count the number of spaces in a string.

35. To Demonstrate the **sorting** of Arrays of Structures, Create a structure ***School*** containing fields for *Name*, *RollNo*, *Gender, Height,* and *Weight.* Enter at least 4 **School** data records, sort the records alphabetically on the basis of the names in ascending order; display them records neatly.

36. To Demonstrate the use of Arrays of Structures, Create a structure ***Employee*** containing fields for *EmpName*, *EmpNo*, *BasicPay.* Enter at least 5 employees' data records and display them neatly.

37. Write a C++ program (Telephone Directory simulation) that can sort a list of names and telephone number alphabetically. Names to be treated as a unit. (define them inside a structure). Persons are sorted alphabetically by their last names. Persons with the same last name are sorted by their first names.

38. Write a C++ program to count number of vowels present in a text file.

39. Write a C++ program to Write and Read a structure using write() and read() functions using a binary file.

40. Define a class named "rectangle" to represent rectangles in a 2- dimensional plane. For each rectangle, its length and breadth are to be stored. Write 2 different member functions, one to computer the area of a rectangle and its perimeter and the other to check if a rectangle is a square.

Reference Books :

1. Herbtz Schildt, "C++: The Complete Reference", 4th Edition, McGraw Hill, 2017.

2. Bjarne Stroustrup, "The C++ Programming Language", 4th Edition, Pearson Education, 2022.

3. E Balaguruswamy, "Object Oriented Programming with C++", 8th Edition, Tata McGraw-Hill Education, 2020.

5. D. Ravichandran, "Programming with C++", Tata McGraw-Hill Publishing Co. Ltd, 3rd Edition, 2017.

6. P. Radha Ganesan, “Programming with C++”, Scitech Publications (India) Pvt. Ltd, 2005.

7. Ashok N. Kamthane, “Object-Oriented Programming with ANSI & Turbo C++”, Pearson Education, 2008.

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9	**Basic Skills on Electronic Equipment**	**SEC0200903**	**3**	**40-60**

Basic Skills on Electronic Equipments

Objective of the Course:

This course aims at making the students introduced to the working of electronic equipments used in daily life and to repair and maintenance of these equipments

Course Outcome:

At the end of the course, the students shall be able to identify the fault, repair & do maintenance of daily use electronic equipment’s.

Credits: 03 (Theory: 01, Lab:02)

Course Outline:

Unit-1: Basic Electronic Components **Lecture: 02**

Introduction to Resistor, Capacitor, Inductor, Diode, Transistor, Transformer, battery / cell **(Brief idea, use and application only)**

Unit-2: Basic Electronic Circuits

Lecture: 02

Ohm’s Law, Kirchhoff’s current & voltage law, series and parallel circuit’s connection, rectifier circuit using diode

Unit-3: Use of laboratory instrument **Lecture: 02**

Use of vernier slide calliper, screw gauge, spherometer, Digital Multi-Meter (DMM), Testers, different type of fuse, electronic balance, breadboard

Unit-4: Soldering Technique **Lecture: 02**

Introduction to Soldering and Desoldering Techniques: Soldering tools, Soldering iron, Solder joint, Dry solder joint, Cold solder joint, Good and bad solder joints

Unit-5: Electrical switch board, Power Supply and PCB
Lecture: 03
Circuit design for electrical switch board. Circuit design and principle of regulated power supply (AC to DC). Fabrication of PCB (Printed Circuit Board): Types of PCBs-Steps involved in development of PCB using FeCl3 solution.

Lab Skill: **Lecture: 12**

1. Identification of electronic components (Active or Passive)
   (a) Resistor (b) Capacitor (c) Inductor (d) Diode (c) LED (d) Transistor (e) IC
2. Use Multimeter to measure the followings:
   (a) AC/DC current (b) AC/DC voltage (c) Resistance (d) capacitance
3. Use Multimeter to check the continuity of the following:
   (a) Diode (b) Transistor (c) LED (d) Cable wire
4. Use of vernier slide calliper, screw gauge, spherometer to measure the following physical quantity of given specimen:
   (a) Length (b) radius (inner /outer) (c) volume (d) thickness (e) depth
5. Soldering and de-soldering of given circuit board
6. Circuit connection of house hold switch board containing both socket, plug and switch
7. To convert AC to DC using (a) Half-wave rectifier (b) full-wave rectifier (c) bridge rectifier
8. Fabrication of printed circuit board (PCB) using FeCl3 solution.

References:
A text of Applied Electronics, R.S. Sedha – S.Chand (2005)
Basic Electronics, B.L Theraja (S.Chand)
EASY Laser Printer Maintenance & Repair By Stephen J. Bioelow

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12	**Basics of Scriptwriting I**	**SEC0201203**	**3**	**40-60**

Basics of Scriptwriting I

BASICS OF SCRIPTWRITING - I

3 credits; Class/week: 3
THEORY 2, PRACTICAL 1
Level: 200-399 (UGC)

If you have a story to tell,
if you want to convert your ideas into onscreen moving images,
and think like a filmmaker, this course is for you!

'Basics of Scriptwriting' teaches you to write the poignant logline and a compelling script even if you have no prior experience of writing. It has been designed to train you in writing forthe screen and offers a schematic outline of the stages of scriptwriting and its primary aspects. Throughout the semester, the student will attend theory classes, workshops and engage in rigorous writing exercises. The points of focus will be plot, character arc, scene structure, dialogue and setting as they move from an original impulse toa concept and then, to a film/television script. It will be a truly hands-on experience on writing where peer feedbacks, group activities and brainstorming will be available.

Objectives of this Course are:

- To inculcate the skill of writing a scriptin students
- To guide students to think, express and write logline
- To encourage them to explore their creative energies
- To make them turn an idea into a script
- To make them understand the significance of a script and research in writing any good script
- To read & learn from award winning scripts
- To write a short script as part of the course
- To initiate discussion online and assess scripts of their peers
- To develop analytical thinking
- To learn from peer assessments

Expected Learning Outcomes:

After completion of the course, the student will be able to

- Understand the fundamental elements of a script.
- Analysefilm scripts and identify assumptions, flaws, gaps.
- Ability to create and think in diverse ways.
- Adopt innovative, imaginative and lateral thinking.
- Work independently or with others as a team member.
- Develop an idea to a script.
- Understand the basic structure of a script
- Write a script using software
- Learn different elements ofstorytelling
- Pitch ideas

Pre-requisites:

The course is open to all students who are curious to learn scriptwriting but have no prior experience to those who have written scripts before. It has been designed for all students who have a story to tell and dream of seeing it on the big screen.

A basic knowledge of photography and an enthusiast in cinema will be an added booster though not mandatory.

SECTION A: CONCEPTS (2 credits; 2 contact classes /week)

- What is a script and why do we need one?
- Plot; Character Arc; Dialogue; Conflict/Drama; Denouement.
- Structure (3 part of a script)
- Types of story; Realistic; Fantasy; Horror; Detective; Mystery; Quest/Travel.
  [Story in Images; Dramatic story; Using sound to tell stories;
  Stages of a story; Endings and beginning; Basic concepts of photography & film making;
  Writing an original script]
- Feature film; Documentary; Shorts.

READING (non-contact hour)

- Any <u>one</u> script of an award winning or blockbuster film
  (Script will be mentioned in class)

<u>Evaluation</u>:
Written examination 20%
-MCQs (1x10=10) -Short questions (5x2=10)
Assignment: 20%
-show the 5 fundamental features of agiven film script. (4x5=20)

SECTION B: DEVELOPING YOUR SCRIPT: (1 credit; 1 workshop/week)

- Workshop:
  Logline &Writing a script
  Brainstorm-develop a concept-write-discuss- rewrite.
- Assessing scripts of peer groups
- Learning to use apps to write scripts

Assignment: 40%
-Submission of a script (original &10 -- 20 pages including cover page) 20
-Pitching ideas and a log line in a workshop (3+5=8)
-2 peer script reviews to be submitted by each student (6x2=12)

<u>Recommended readings</u>:

- Screenplay- The foundations of Screenwriting- Syd Field.

- The Hero's Journey- Joseph Cambell
- Short essays and audio/visual links will be provided in class.

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13	**Biofertilizers**	**SEC0201303**	**3**	**40-60**

Bio-fertilizers

Total Lectures : 33 Credits : 3 (Theory -2, practical -1)

THEORY:

Unit 1: General account about the microbes used as biofertilizer - Rhizobium - isolation, identification, Biological nitrogen fixation and Actinorrhizal symbiosis. **(4 lectures)**

Unit 2: *Azospirillum:* isolation and mass multiplication - carrier based inoculant, *Azotobacter*: classification, characteristics - crop response to *Azotobacter* inoculum, maintenance and mass multiplication. **(4 lectures)**

Unit 3: Cyanobacteria (blue green algae), *Azolla* and *Anabaena azollae* association, nitrogen fixation, factors affecting growth, blue green algae and *Azolla* in rice cultivation **(4 lectures)**

Unit 4: Mycorrhizal association and types, taxonomy, occurrence and distribution, phosphorus nutrition, growth and yield - colonization of VAM and its influence on growth and yield of crop plants. **(5 lectures)**

Unit 5 : Organic farming - Green manuring and organic fertilizers, Recycling of bio-degradable municipal, agricultural and Industrial wastes, biocompost making methods, vermicomposting - field Application. **(5 lectures)**

PRACTICAL:

1. Isolation of root nodule bacteria from leguminous plants. Gram staining. **(3 lectures)**
2. Isolation and inoculum production of VAM, **(3 lectures)**
3. Preparation of vermicompost and field application.. **(5 lectures)**

Suggested Readings

1. Dubey, R.C., 2005. A Text book of Biotechnology S.Chand & Co, New Delhi.
2. Kumaresan, V. 2005, Biotechnology, Saras Publications, New Delhi.
3. John Jothi Prakash, E. 2004. Outlines of Plant Biotechnology. Emkay Publication, New Delhi.
4. Sathe, T.V. 2004. Vermiculture and Organic Farming. Daya publishers.
5. Subha Rao, N.S. 2000, Soil Microbiology, Oxford & IBH Publishers, New Delhi.
6. Vayas,S.C, Vayas, S. and Modi, H.A. 1998 Bio-fertilizers and organic Farming Akta , Prakashan, Nadiad

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15	**Business Leader/ Multi Outlet Retailer**	**SEC0201503**	**3**	**40-60**

Business Leader/ Multi Outlet Retailer

Credit 3 **Total Marks: 100**
Theory classes :17 classes (one hour each-17 hrs) **Theory:50 marks**
Practical classes:16 classes (Two hours each-32 hrs) **Practical:50 Marks**

Practical classes will include: 12 hours of Retail Lab practical, 12 hours of presentation preparation, 6 hours of Group Discussion. 2 hours of assignment preparation

Thiscourseon"**BusinessLeader/Multi-outletRetailer**"for undergraduatestudentsbuildsbasicallyonthesoftskillsandleadershipqualitiesalreadydevelopedbythestudentsapartfrompreparingthemforaprofessionintheretailindustry.Itaimstodevelopthetechnicalskillsrequiredfortheirresponsibilitiesapartfromimprovingtheircommunicationandproblem-solvingskills.

CourseObjective:

Thiscourseisaimedattrainingstudentsfortheroleof"**BusinessLeader/Multi-outletRetailer**",inthe"Retail"Sector/Industryandbytheendofthesemesteraimsatbuildingthejobspecifickeycompetencies amongst thelearners.

SpecificObjectives:

The courseaims to enablestudents to–

- Understand theimportanceoflegalcompliance
- Understand therole and responsibilitiesofa "**BusinessLeader/Multi-outletRetailer**"
- Understand theprinciples ofleadership
- Understand thebasicsof retailbusinessoperations
- Gives an idea ofvariousproblem-solvingskills related to theretailindustry
- Givean exposure tothe practicalaspectsoftheindustry
- Develop soft skills

CourseOutcome:

After thecompletionofthecourse, thestudents will beableto

- Understand theprinciples ofleadership
- Understand importanceoflegalcompliance
- Understand thebasicsof retailbusinessoperations
- Know therequirements oftheroleof**BusinessLeader/Multi-outletRetailer**
- Developthe skillsrequiredfor beinga successful**BusinessLeader/Multi-outletRetailer**
- Communicatewith peoplewith confidence

CourseContent:

Unit1: Legal Compliance Marks:15

* Statutory Law, Concept of "Law of theLand",ImportanceofLegalCompliance
* ImportanceofProcess,Policyadherence and accurateReporting
* Laws orActs essentialfor Retail Business
* Definition:Agreement,kinds ofAgreements,
* Definition:Contract,kinds ofContracts

Unit 2: IntroductiontoLeadership Marks:15

* Understanding Leadership,
* Concept ofLeader
* Differencebetween Manager andLeader
* QualitiesofaGood &EffectiveLeader
* LeadershipStyles

Unit 3:IntroductiontoBusinessLeader/Multi-outlet Retailer Marks:10

* Business Leader/Multi-outletRetailer:Definition,Job Description, Duties

Unit 4:Retail BusinessOperations Marks:10

* Increasing operating efficiency, Reducing inventory shrinkage,
* Space management, InventoryManagement,Sales Management,
* SWOTAnalysis,Concept ofCrossselling& Upselling
* Marketing:Meaning, Importance, Strategies
* Concept ofCRM,
* Manpower Planning&Training, Team Management

Readerlist:

Pradhan,S.,RetailingManagement:Textand CasesMadanR.L., A Textbook ofRetailManagement

Levy Michael Barton Weitz Ajay Pandit : Retailing management

QualificationPackofBusinessLeader/Multi-outletRetailerprescribed byRASCI

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16	**Byabaharik Asomiya**	**SEC0201603**	**3**	**40-60**

Byabaharik Asomiya

(Syllabus 1)

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NB: As directed (by HoD, Dept. of Assamese, GU) Fourth Unit ( ) has been dropped.

Syllabus 2

Byabaharik Asomiya

SEC Syllabus of FYUGP

Gauhati University

B.A 1st semester

Subject: Assamese

Paper Name : ব্যৱহাৰিক অসমীয়া

Total Marks : 100

প্রথম গোট : ২০

আৰ্হি পাঠ : পদ্ধতি আৰু কৌশল

দ্বিতীয় গোট: ২০

ছপা আৰু বৈদ্যুতিন মাধ্যমৰ বাবে বিজ্ঞাপন লেখন, ইংৰাজী হিন্দী বিজ্ঞাপনৰ অসমীয়া অনুবাদ।

তৃতীয় গোট : ২০

অনুবাদ : সংবাদ , প্রবন্ধ , সাক্ষাৎকাৰ

চতুর্থ গোট : ২০

চিত্রনাট্য নির্মাণ: সাহিত্যৰ চিত্রায়ণ

পঞ্চম গোট :

বৈদ্যুতিন মাধ্যমৰ বিজ্ঞাপনৰ ভিডিঅ'গ্রাফী/ চিত্রনাট্য প্রদর্শন ২০

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17	বাংলাভাষাওসাহিত্য-পাঠপদ্ধতিওসাহিত্যেররূপান্তর	SEC0201703	3	40-60

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FYUGP SEC SYLLABUS IN BENGALI

COURSE DETAILS

SEMESTER 2

Paper Code – BEN SEC PAPER- 2 **Credits**-3 **Paper Title –** - **External Marks—80** **Internal Marks—20***		
Units	**Topics**	**Marks**
I	- , , , , , , , ,	20
II	, , ,	20
III	– , , ,	20
IV	-) - : , ,) ,)	20

*Candidates have to attend one Sessional Exam, of 40 marks and submit two Home Assignments each of 20 Marks for Internal Assessment Marks. Internal Assessment marks will be given out of 20 marks by averaging the marks obtained in Sessional Examination and Home Assignments.

Reference Books:

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I –

I : – ,

I – (.)

Outcome: The course will enable students to develop real-life skills about various applications of Bengali language. They will gather theoretical knowledge about proof reading, Bengali terminologies and journal and book editing.

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21	Computer Assembling and Networking	SEC0202103	3	40-60

Computer Assembling and Networking

Course Code: SEC0202103

Semester-2

Total Credits=3 Total Marks=100 Theory=30, Practical=50, Internal=20 (Sessional=10, Practical Demo=6, Attendance=4)

Objective of the Course

The objective of the Scheme is to generate qualified manpower in the area of Information Technology (IT) which will enable such person to work seamlessly at any Offices, whether Govt. or Private or for future entrepreneurs in the field of IT. Computer Hardware and Network Maintenance trade a candidate is trained on professional skill, professional knowledge &Employability skill related to job role. In addition to this a candidate is entrusted to undertake project work and extracurricular activities to build up confidence. The broad components covered under Professional Skill

Unit 1: (Theory and Practical)

Introduction to Windows

2.1What is an operating system and basics of Windows

2.2 The User Interface

1. Using Mouse and Moving Icons on the screen
2. The My Computer Icon
3. The Recycle Bin
4. Status Bar, Start and Menu & Menu-selection
5. Running an Application
6. Windows Explorer Viewing of File, Folders and Directories
7. Creating and Renaming of files and folders
8. Opening and closing of different Windows

2.3 Windows Setting

1. Control Panels
2. Wall paper and Screen Savers
3. Setting the date and Sound
4. Concept of menu Using Help

2.4 Advanced Windows

1. Using right Button of the Mouse
2. Creating Short cuts
3. Basics of Window Setup

4. Notepad
5. Window Accessories

Unit 2: (Theory and Practical)

PC Assembly and Maintenance.

i. Introduction to PC Hardware:
Study of basic I/O systems, Types of Memories- Static RAM and Dynamic RAM, ROM, PROM, EPROM, EEPROM, CPU (Central Processing Unit)- ALU and control unit.

ii. Motherboard and Processor:
Study of different types of Motherboards, Motherboard Configuration, Identifying Internal and External connectors, Types of data cables, Types of Processor- Intel Pentium IV, Dual core, Core 2 Duo, Quad processor etc,.

iii. BIOS Configuration:
Study of BIOS Set-up- Advance set-up, Boot configuration, Boot Menu.

iv. Installation of OS (Operating Software)
Windows XP, installation of different types of Service Packs, Vista and Windows-7 etc.

v. Hard Disk:
Formatting of Hard disk, Partitioning of Hard disk in different logical drives, Disk defragmentation, Disk clean up, Scan disk etc,.

vi. Installation of Device Drivers:
Different types of Motherboard drivers, LAN, Audio, and Video.

vii. Configuration of External devices:
Physical set-up of Printers- Performing test print out, Printing of document etc, Scanner set-up, Webcam, Bluetooth device, Memory card reader etc.

viii. Diagnostic and troubleshooting of PC:
POST (Power on Self Test), Identifying problems by Beep codes errors, Checking power supply using Multi-meter, Replacement of components etc.

ix. Maintenance of PC

x. Utilities
Compression Utilities: WinZip, PKZIP, Concept of compression, Defragmenting Hard, disk using defrag, Scan Disk for checking disk space, lost files and recovery, Formatting Hard disk, Floppy Disk, Setting System Date and Time, Antivirus Package CD Writing Software – Nero etc.

Lab-Assignment/ Test

Unit 3: (Theory and Practical)

Basic networking Concept

I. What is Networking, Local Area Networking (LANs), Metropolitan Area Network , MAN),
II. Wide Area Network (WAN),

III. Networking Topologies
IV. Transmission media & method of communication
V. Cabling: straight through and cross over
VI. Study of components like switches, bridges, routers, Wi-Fi router etc.
VII. TCP/IP, IP addressing, MAC address, Subnet
VIII. To create a Crossover cable using standard color-coding (RJ-45, UTP, Crimping tools).
IX. To create a straight cable using standard color-coding. (RJ-45, UTP, Crimping tools)
X. To create a simple LAN with two PCs using a single crossover cable to connect the
XI. workstations.
XII. To create a simple LAN with two PCs using an Ethernet hub and two straight thru cables
XIII. to connect the workstations.
XIV. To setup a LAN with a number of PCs using 8/16 port HUB.
XV. To set up a WLAN (Wi-Fi) router.
XVI. To use the ICMP Ping command (with switches) to verify the TCP/IP connection
XVII. between the two workstations.
XVIII. To share and access a file/folders over a

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23	**CONFLICT AND PEACE BUILDING**	**SEC0202303**	**3**	**40-60**

Syllabus
Conflict and Peace Building
SEC0202303
(Credit 3)

Prepared by
Borsha Changmai
Bhrigu Kalita
Department of Political Science
Ratnapith College

Course Objectives: This course is designed to build an understanding of a variety of conflict situations and peace building among students in a way that they can relate to them through their lived experiences. It is an interdisciplinary course that draws its insights from various branches of social science and seeks to provide a lively learning environment for teaching and training students how to bring about political and social transformations at local, national and international levels. The course encourages the use of new information technologies and innovative ways of understanding these issues by teaching these issues by teaching students skills of managing and resolving conflicts and building peace through techniques such as role play, simulations, street theatre, cinema and music on the one hand and by undertaking field visits, interacting with different segments of the civil society including those affected by conflicts as well as diplomats, journalists and experts, on the other.

Unit I: Conflict and its concept Credit 1
1.1 Understanding Conflict
1.2 Forms of Conflict
1.3 Conflict Resolution and Peace Building

Unit II: Conflict Analysis and Conflict Management Credit 1
2.1 Structural Conditions
2.2 Traditional Management Strategies
2.3 Negotiation and Mediation
2.4 Gandhian Methods

Unit III: Approaches to the Study of Peace Credit 1
3.1 Feminist Approach
3.2 The Political Economy Approach
3.3 The Environmental Approach

Modalities for Practical Component: Project Report/Field Study Report on any issues i.e. ethnic/religious/gender based conflict issues, awareness campaign on sustain peace etc.

Reference Books:

- O. Ramsbotham, T. Woodhouse and H. Miall, (2011) 'Understanding Contemporary Conflict', in Contemporary Conflict Resolution, (Third Edition), Cambridge: Polity Press, pp. 94-122.
- S. Ryan, (1990) 'Conflict Management and Conflict Resolution', in Terrorism and Political Violence, 2:1, pp.3-29.

- R Rubenstein, (2003) 'Sources', in S. Cheldelin, D. Druckmen and L. Fast (eds.) Conflict:From Analysis to Intervention, London: Continuum, pp.55-67.

- P. Le Billon, (2009) 'Economic and Resource Causes of Conflicts', in J. Bercovitch, V. Kremenyuk and I. Zartman (eds.) The Sage Hand Book of Conflict Resolution, London: Sage Publications, pp. 210-224.

- N. Behera, 'Forgoing New Solidarties: Non-official Dialogues', in M. Mekenkamp, P. Tongeren and H. Van De Veen (eds.), Searching For Peace In Central and South Asia, Landan: Lynne Rienner Publisher, pp. 210-236.

- H. Bugress and G. Bugress, (2010) Conducting Track II, Washington D.C: United States Institute of Peace.

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24	**Costume and Textile Design of the Bodos**	**SEC0202403**	**3**	**40-60**

Costume and Textile Design of the Bodos

FYUGP
BOD-Skill Enhancement Course
Marks= 50 (Theory) + 50 (Practical)=100

Paper Title: Costume and Textile Design of the Bodos (2nd)

Course outcomes:

- Can come to know about costume and textile design of the Bodos
- Can come to know about changing trend of costume and textile design from designing to modernity

Unit I: Traditional costumes, Weaving Designing, adaptation of emerging designing technology in the global perspective 20

Unit II: Traditional ornaments, body adornment and decoration, scope and validation in the changing needs of modern perspective 20

Unit III: Bodo textile: Scope of marketing and employment opportunity 10

Note: practical will be taken from prescribed topics given below:

1. Presentation of traditional costume designing
2. Presentation on Bodo adornment and decoration
3. Identification of Bodo textile implement and designs

Suggested readings:

1. Bodo KacharirSomajAruSanskriti: Bhaben Narzaree
2. An Introduction to Cultural and Social Anthropology:Hammond Peter B
3. Anthropology: Carol R &Ember,Melvin
4. Traditional Indian Costume &Textile:ParulBhatnagar
5. BoroAgor : SukumarBasumatary

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25	**Creative Writing**	**SEC0202503**	**3**	**40-60**

Creative Writing

Introduction to Creative Writing

Credits: 3

Objectives:

- To acquaint students with the essential facts and chronology of the history of literatures in English.
- To expose students to well-known literary classics which may act as models to be emulated.
- To train students in writing in different literary forms or genres such as long and short fiction, non-fictional prose works, plays and poems.
- To familiarize students with aspects such as imagining (and writing for) an audience, finding a voice, doing self-editing, peer-editing and revising, keeping a journal, etc.

Expected Learning Outcomes:

After completion of the course the students will not only have an idea about the literary achievements of great writers whose works serve as inspiring models, but also develop some basic and essential skills to do some good writing of their own across genres.

Course Requirements:

FIRST PART: CONCEPTS AND TEXTS FOR EXAMINATIONS,

1 credit, 1 class a week

1. Students will study one or more recommended history of literature and be expected to answer a single question on some outstanding literary movement or literary school.
   Recommended: Andrew Sanders, *The Short Oxford History of English Literature*

2. Students will study the following texts and answer questions on them:
   Charles Dickens, *A Christmas Carol*
   R.K. Narayan, *The English Teacher*
   William Dalrymple, *The City of Djinns,* Chapter 3
   Zadie Smith, "Grand Union," in *Grand Union*

3. As grammatical correctness is a prerequisite to becoming a creative writer, students will be taught some grammar andalso encouraged to study grammar on their own and be expected to answer a few short questions that will test their grammatical skills.
   Recommended texts: *High School English Grammar and Composition* by Wren and Martin
   Intermediate English Grammar by Raymond Murphy
   Evaluation: Written Examination (combination of MCQs and short essays):
   Grammar: 10 marks, Literary history 10 marks, interpretation/analysis of prescribed literary texts 20 marks

SECOND PART: PROJECTS

2 credits, 2 classes a week, including workshops

1. Translations: As translations ensure close engagement with the nuances of language (both host and target), translations of select works in Assamese will have to be done. The translation will be of a poem, a part of a play, an excerpt from a novel, and an essay, and will be decided by the teacher for the particular semester. Workshops may be held to mentor and tutor the students.

2. Writing creatively:

   The students will write (choice of any one from the following four)

a) 1 novella (20000 words)
b) 10 personal essays
c) 10 poems
d) 1 one act play with scope for divisions into scenes (15000-20000 words)

The themes/topics for the above will be decided in consultation with the teacher. Peer-review sessions and discussions in workshops will guide the students.

Evaluation:
Translation: 10 marks
Discussion and peer-edit: 10 marks
Manuscript: 40 marks

Recommended works for the entire course:
George Orwell, "Why I Write"
Joan Didion, "Why I Write"
Ruskin Bond, "How to be a writer"
Morley, David, and Phillip Neilsen. *The Cambridge Companion to Creative Writing*

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Syllabi-2 by other

TITLE: Introduction to Creative Writing

Target Group: Open for all (Arts, Science, Commerce)

Theory = 2 credit, **Practical** = 1 credit

Learning Objectives:

- To introduce the concept of creative writing
- To familiarize students with the different genres of literature
- To acquaint students with the basic principles and techniques involved in the modes of creative writing
- To introduce creative writing for communication
- To prepare students for professional career in creative writing
- To encourage students to write for publication

Course Outcomes:

The course will explore and hone the creative skills of the students. They will learn and practice the craft elements of writing poetry, fiction and / non-fiction, examine the works of writers in the genres and receive and offer critique in classroom setting/assignments. At the end of the semester, students would be able to use their creative skills for all types of formal communication.

Unit wise Syllabus

THEORY

UNIT I – (6 hours)

INTRODUCTION TO CREATIVE WRITING

Meaning and significance of creative writing, What makes a good piece of creative writing?, Techniques used in creative writing, Genres of creative writing: poetry, fiction, drama

UNIT II – (8 hours)

THE ART AND CRAFT OF WRITING

Rhetoric and prosody, Images and symbols, Figurative language, Sensory details, Imagery, Vocabulary, Paragraph development, Observe the outside world, Use of imagination, Sentence variety, Creative thinking, Memories

UNIT III – (8 hours)

MODES OF CREATIVE WRITING

Poetry: What is good poetry?, Why poetry?, Reading poetry, Modes of poetry – narrative, dramatic and lyrical, Form and technique

Fiction: What is fiction?, What is a good story? Plot, Setting, Character, Dialogue, Point of View, Elements of style

Drama: Types of drama, Plot/sub plot, Characterization

PRACTICAL (22 hours)

- Read aloud sessions: recitation of a poem/ reading aloud a story or article with expression
- Rereading content for better fluency
- Composing lyrics
- Emphasis on correct pronunciation
- Enacting of different scenes/characters from plays
- Presentation of short skits of social relevance
- Critical appreciation of any literary text chosen in consultation with the concerned teachers
- Peer critiquing

Reading list:

a) *Creative writing: A Beginners Manual* by AnjanaNeiraDev, AnuradhaMarwah, Swati Pal. Delhi, Pearson Longman. 2009.

b) *Elements of Literature: Essay, Fiction, Poetry, Drama, Film*. Robert Scholes, Nancy R. Comely, Carl H. Klaus, Michael Silverman. Delhi, Oxford University Press. 2007.

c) *Glossary of Literary Terms*. M. H. Abrams. Boston: Wadsworth Publishing Company. 2005.

d) *The Creative Writing Course-Book* by Steven Earnshaw (ed). Edinburgh: EUP, 2007.

e) *If You Want to Write* by Brenda Ueland. India: General Press, 2019.

f) *Negotiating with the Death: A Writer on Writing* by Margaret Atwood. Cambridge: CUP, 2022.

Paper name: **TSC-SE-5014 – Creative Writing**

Credits: 3 **Total Marks: 100**
Theory classes: 17 classes (one hour each – 17 hrs) Theory: 50 Marks
Practical classes: 16 classes (two hours each – 32 hrs) Practical: 50 Marks

Course Description: Creative writing is a form of artistic expression. This course is designed to teach students about the tools and technicalities of creative writing and creative thinking.
Students will learn how to craft their thought, imagination and thinking. They will learn about writing fiction, poetry, screenplay, Drama and non- fiction.

Course Objective: This course is designed for the students to prepare them to take writing as their career in various sectors. They can practice their role as Play writer, Screen play writer, Story writer, Poet, Novelist, Non fiction writer in Literature, Media & Entertainment Industry.

Specific Objectives: The course aims to enable students to –

- Know and understand the various aspects of literature.
- Know the History of Assamese Literature along with Indian and World Literature.
- Understand the different form of creative writing
- Know and understand the true value of creative writing
- Know and understand the tools of excellent writers
- Be familiar with different types of nonfiction
- Know and understand how to write memories, biographies and autobiographies; how to write articles for newspaper, blogs, journal etc.
- Understand the craft and elements of Basic Storytelling, Screenplay writing, Poetry, Novel etc.
- Understand how to generate Idea—Observation Imagination—Creative Thinking
- How to develop creativity in writing.
- How to get the creative work recognized and published
-

Course Outcome: After the completion of the course, the students will be able to

- Understand the basics of creative writing skills.
- They will be able to work as Professional writer in Literature, Theatre, Media, and Film Industry.
- Develop the skills required for being a Creative Writer.

Course Content:

Unit 1: About Creative Writing **Marks: 10**

- Process of Creative writing
- Concept of Creative Writing: Understand What is Creative Writing— Short Stories, Short Plays, Poetry, Novel, Biography;

Understand why it is Called Creative Writing-Creative Expression, CreativePresentation.

- Understand how to generate Idea—Observation Imagination—Creative Thinking
- How to develop creativity in writing.

Unit 2: How todevelop the concept. **Marks: 10**

- Detailing out the concept
- Outline key elements of concept
- Story- telling
- The basic principles of story-telling and character psychology

Unit 3: The Different Types or forms of Creative Writing **Marks: 10**

- Fiction
- Journal or Diaries
- Poetry
- Article
- Memories
- Screenplay
- Drama etc.

Unit 4: How to write – **Marks: 20**

- Memories
- Biography
- Autobiography
- Articles for newspaper, blogs, journals
- Poetry
- Fiction
- Screenplay
- Drama
- Documentary Film Script

PRACTICAL(Writing skills-Fiction,Screenplay,Drama etc.): **50 marks**

Reading List:

1. Becoming a writer: Dorothea Brande
3. Natyashastra: Bharatmuni
2. Poetics: Aristotle

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27	**Critical Thinking**	**SEC0202703**	**3**	**40-60**

SKILL ENHANCEMENT COURSE

PAPER CODE: SEC0202703

PAPER NAME: CRITICAL THINKING

By -DEPARTMENT OF PHILOSOPHY, GAUHATI UNIVERSITY

Unit No.	Unit Content	No. of Classes	Marks
I (Theory)	• Critical thinking, Benefits and Barriers of Critical Thinking • Asking Right Questions	15	25
II (Theory)	• Introduction to Critical and Analytical Writing • Paraphrasing—(a) Short quotes and (b) Clarifying texts	15	25
III (Practical)	• Formulation of Title • Paraphrasing quotes • Asking Questions	15	25

h. Reading list:

Anderson, Marilyn, Pramod K. Nayar, & Madhucchanda Sen, (2010). *Critical Thinking, Academic Writing and Presentation Skills,* Pearson Education

Cottrell, Stella. (2005). *Critical Thinking Skills—Developing Effective Analysis and Argument,* Palgrave Macmillan

M. Neil Browne & Stuart M. Keeley (2007). *Asking the Right Questions—A Guide to Critical Thinking,* Pearson Prentice Hall

Paul, Richard & Linda Elder (2019) *How to Write a Paragraph—The Art of Substantive Writing,* Rowman & Littlefield

Russell, B. (1956). 'How I Write' in *Portraits from Memory and Other Essays*, Simon and Schuster: New York.

Russell, B. (1999). 'The Value of Philosophy' in *The Problems of Philosophy*, Oxford University Press.

Sen, Madhucchanda (2010). *An Introduction to Critical Thinking,* Pearson India

Website Link

https://bradford.instructure.com

All practical exercises relating to Unit II are to be worked out from among the books listed below.

Dasgupta, S.N.: A History of Indian Philosophy (Vol I-IV)

F. Copleston: History of Philosophy (Vol I to VIII))

Frankenna, Williams: Ethics

Hick, John: Philosophy of Religion

Kenny, Anthony: A New History of Philosophy

Neog, Maheswar: Sankardeva and His Times
Radhakrishnan, S.: Indian Philosophy (Vol I & II)
D. M. Datta: The Philosophy of Mahatma Gandhi
Singer, Peter: Applied Ethics
H. J. Blackham: Six Existentialist Thinkers

i. Graduate Attributes

i. Course Objectives-

The Course aims at developing the traits and skills of:

- seeing issues from alternative viewpoints
- reading a text both sympathetically and critically
- bridging ideas of thinkers
- developing logical rigor in building an argumentative case
- inculcating the habit of questioning, framing the right question
- applying critical standpoint in writing
- rephrasing original thoughts of others

ii. Learning outcome:

At the completion of the Course the student is expected to be able to:

- Analyze the original and primary ideas of various thinkers
- Write in comprehensible, unambiguous language
- Present ideas in organized, efficient, methodical ways
- Develop ancillary skills of observation, reasoning, decision making etc.
- Put forth logically sound and persuasive arguments
- Develop effective communication skill

j. Theory Credit 02
k. Practical Credit 01
l. No. of Required Classes 45
m. No. of Non-Contact Classes 00
n. Particulars of Course Designer (Jahnabi Deka, Ph.D., Gauhati University, jahnabideka@gauhati.ac.in)

Syllabus 2:

Course Description:
The course is designed to introduce and inculcate critical thinking (CT) among students with a view to developing the skill in practical contexts, this being the essence of philosophising. The skill is to be learnt and applied in writings. Thus the course is divided into two parts: (a) theory, comprised of introduction to CT and reading model critical literatures (units I & II); and (b)

practical, comprised of application of the skill in writing (units III & IV).

Course Objectives:
The Course aims at developing the traits and skills of:
• seeing issues from alternative viewpoints
• reading a text both sympathetically and critically
• bridging ideas of thinkers
• developing logical rigor in building an argumentative case
• inculcating the habit of questioning, framing the right question
• applying critical standpoint in writing
• rephrasing original thoughts of others

Course Outcomes:
At the completion of the Course the student is expected to be able to:
• Analyze the original and primary ideas of various thinkers
• Write in comprehensible, unambiguous language
• Present ideas in organized, efficient, methodical ways
• Develop ancillary skills of observation, reasoning, decision making etc.
• Put forth logically sound and persuasive arguments
• Develop effective communication skill

The Syllabus
Part A (Theory) Marks 50

Unit I Introduction to Critical thinking 25
Thought and Training of Thought
Critical thinking, Benefits and Barriers of Critical Thinking
Asking Right Questions

Unit II Critical Writing 25
Introduction to Critical and Analytical Writing
Paraphrasing—(a) Short quotes and (b) Clarifying
texts Making Effective Notes

Part B (Practical) Marks 50

Unit III
Formulation of Title **10**
Making Effective Notes **15**

Unit IV
Paraphrasing quotes **16**
Asking Questions **09**

GUIDELINES FOR PRACTICAL COMPONENT (UNIT III & UNIT IV)
1. Formulation of title: students will be asked to go through some related passages; then they will be asked to formulate one title to suit the main idea(s) set through the passages. In case of compiling passages from multiple texts, sufficient care is to be taken for not getting compiled conceptually unrelated passages. For example, along with a passage on Existentialism no passage on Vaisesika category of abhava can be clubbed.

2. Making effective notes: students will be asked to go through some passages, and then they will be asked to make one effective note highlighting the cardinal points contained in the passages. Conceptual conformity among the passages must be looked into as in case of the above point.

3. Paraphrasing quotes: students will be asked to paraphrase four original quoted passages

in their own words. This means that students need to extend the quoted thought without altering the meaning of any word originally cited in the quote.

4. Framing right questions: students will be asked to go through some given passages, and will be asked to frame three right questions.

5. All the passages, and passages within quotes, will be chosen only from the recommended books for **unit III and Unit IV**.

BOOKS RECOMMENDED
UNIT I & UNIT II

Anderson, Marilyn, Pramod K. Nayar, & Madhucchanda Sen, (2010). Critical Thinking, Academic Writing and Presentation Skills, Pearson Education

Cottrell, Stella. (2005). Critical Thinking Skills—Developing Effective Analysis and Argument, Palgrave Macmillan

Dewey, J. (1933). How We Think, Boston, New York.

M. Neil Browne & Stuart M. Keeley (2007). Asking the Right Questions—A Guide to Critical Thinking, Pearson Prentice Hall

Paul, Richard & Linda Elder (2019) How to Write a Paragraph—The Art of Substantive Writing, Rowman & Littlefield

Russell, B. (1956). 'How I Write' in Portraits from Memory and Other Essays, Simon and Schuster: New York.

Russell, B. (1999). 'The Value of Philosophy' in The Problems of Philosophy, Oxford University Press.

Sen, Madhucchanda (2010). An Introduction to Critical Thinking, Pearson India

Website Link
https://bradford.instructure.com
(UNIT III & UNIT IV)
All practical exercises relating to Unit III and Unit IV are to be worked out from among the books listed below.

Dasgupta, S.N.: A History of Indian Philosophy (Vol I-IV)
F. Copleston: History of Philosophy (Vol I to VIII))
Frankenna, Williams: Ethics
Hick, John: Philosophy of Religion
Kenny, Anthony: A New History of Philosophy
Neog, Maheswar: Sankardeva and His Times
Radhakrishnan, S.: Indian Philosophy (Vol I & II)
D. M. Datta: The Philosophy of Mahatma Gandhi
Singer, Peter: Applied Ethics
H. J. Blackham: Six Existentialist Thinkers

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28	CV Writing and Interview Skills	SEC0202803	3	40-60

CV Writing and Interview Skills

TITLE: FRAMING BIO-DATA, CURRICULUM VITAE AND RESUME

Theory = 2 credit, Practical = 1 credit

Learning objectives:

- Framing Bio-data, Curriculum vitae and Resume
- Using power point
- Appearing Interview

Course Outcome: At the end of the course the students will be able to write Bio-data, Curriculum Vitae and Resume. They will become confident for facing an interview**.**

Unit wise Syllabus:

THEORY (22 Hours)

Unit – 1 (11 hours)

CONCEPT OF BIO-DATA /CV/RESUME: Definition of Bio-data, Curriculum Vitae and Resume. Need of Bio-data, Curriculum Vitae and Resume. Difference between Bio-Data, Curriculum Vitae and Resume. Bio-data for students. Creation of Bio-data to apply for job.

Unit – 2 (11 hours)

INTERVIEW – Meaning, nature and types. Important interview skills.

PRACTICAL (22 Hours))

POWERPOINT PREPARATION AND PRESENTATION of the format of Bio-data/Curriculum vitae/ Resume.

Mock Interview within the classroom.

References / Suggested Reading

Sidhu K.S (1984) ; Methodology of Research in Education, Sterling Publishers private limited.

Syllabi 2:

FRAMING BIO-DATA, CURRICULUM VITAE AND RESUME

Learning objective : To develop the skill of **-**

- Framing Bio-data, Curriculum vitae and Resume
- Using powerpoint
- Appearing Interview

Target students : 50 (Open for all)

Course Outcome : At the end of the course the students will be able to write Bio-data, Curriculum Vitae and Resume. They will become confident for facing an interview**.**

Target students : First semester students (Open for all)

Syllabus :

1	**Concept of Bio-data/CV/Resume (11 classes)**	• Definition of Bio-data, Curriculum Vitae and Resume. • Need of Bio-data, Curriculum Vitae and Resume. • Difference between Bio-Data, Curriculum Vitae and Resume. • Bio-data for students. • Creation of Biodata to apply for job. • Interview – Meaning, nature and types. • Important interview skills.	15 (Theory)	50
2	**Power point and Interview.**	• Power point preparation and presentation of the format of Biodata/Curriculum vitae/ Resume. • Mock Interview within the classroom.	15 (Practical)	25 25

Syllabi 3

PAPER TITLE: - SKILLS ON WRITING BIODATA AND CURRICULUM VITAE (C.V) FOR FACING INTERVIEW.

UNIT 1: Concept of Biodata – Meaning and its types, Concept of Curriculum Vitae (CV), Differences between Biodata and Curriculum Vitae, Skills on writing various types of Bio-data, Skills on writing a good Curriculum Vitae (CV).

UNIT 2: Meaning and types of Interview, Characteristics of good interview, skills of facing interview.

UNIT 3: Preparation of Bio-data for facing an interview (PRACTICAL).

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29	**Cyber Ethics**	**SEC0202903**	**3**	**40-60**

Cyber Ethics

Introduction:

The evolution of Information Communication Technology (ICT) and growing security concerns demands flexible and generally comprehensive approach to the issue of cyber security. The rapid growth of ICT has raised various complex questions which need to be addressed. A need has been felt to address cyber security broadly, as also in sufficient depth so that even students from non-technical streams will develop a more complete picture of the cyber security issues. The syllabus has been prepared with an aim to create more aware, responsive and responsible digital citizens, thereby contributing effectively to an overall healthy cyber security posture and ecosystem.

Why take this course?

- Get an introduction to ethical theory
- Learn how to apply ethical theory to ethical issues arising in the use of the internet
- Develop critical thinking and skills in written expression

Program Educational Objectives:

The exposure of the students to Cyber Security program at Graduate and Post Graduate level should lead to the following: -

(a) Learn the foundations of Cyber security and threat landscape.

(b) To equip students with the technical knowledge and skills needed to protect and defend against cyber threats.

(c) To develop skills in students that can help them plan, implement, and monitor cyber security mechanisms to ensure the protection of information technology assets.

(d) To expose students to governance, regulatory, legal, economic, environmental, social and ethical contexts of cyber security.

(e) To expose students to responsible use of online social media networks.

(f) To systematically educate the necessity to understand the impact of cyber crimes and threats with solutions in a global and societal context.

(g) To select suitable ethical principles and commit to professional responsibilities and human values and contribute value and wealth for the benefit of the society.

This course introduces students to a selection of important topics in the rapidly developing field of cyber ethics. The topics considered are:

1. Net neutrality
2. The use of Block chain technology
3. War and the use of autonomous weapons
4. Information warfare
5. Cyberspace and intelligence gathering
6. Digital health and cyberspace
7. Cyber bullying
8. Computer crime and computer security
9. Software theft and intellectual property rights
10. Computer hacking and the creation of viruses
11. Computer and information system failure
12. Invasion of privacy. Privacy in the Workplace and on the Internet
13. Social implications of artificial intelligence and expert systems
14. The information technology salesman issues
15. Social Media Overview and Security

Introduction to Social networks. Types of Social media, Social media platforms, Social media monitoring, Hashtag, Viral content, Social media marketing, Social media privacy, Challenges, opportunities and pitfalls in online social network, Security issues related to social media, Flagging and reporting of inappropriate content, Laws regarding posting of inappropriate content, Best practices for the use of Social media, Case studies.

REFERENCES:

1. Auditing IT Infrastructures for Compliance By Martin Weiss, Michael G. Solomon, 2nd Edition, Jones Bartlett Learning
2. Bynum, T, W; Rogerson, S, Computer Ethics and Professional Responsibility, Blackwell, 2004.
3. Cyber Crime Impact in the New Millennium, by R. C Mishra, Auther Press. Edition 2010.
4. Cyber Laws: Intellectual Property & E-Commerce Security by Kumar K, Dominant Publishers.
5. Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives by Sumit Belapure and Nina Godbole, Wiley India Pvt. Ltd. (First Edition, 2011)
6. Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives by Sumit Belapure and Nina Godbole, Wiley India Pvt. Ltd.
7. Data Privacy Principles and Practice by Natraj Venkataramanan and Ashwin Shriram, CRC Press.
8. Electronic Commerce by Elias M. Awad, Prentice Hall of India Pvt Ltd.
9. Fundamentals of Network Security by E. Maiwald, McGraw Hill.
10. Information Security Governance, Guidance for Information Security Managers by W. Krag Brothy, 1st Edition, Wiley Publication.
11. Information Warfare and Security by Dorothy F. Denning, Addison Wesley.
12. Johnson, D, G, Ética Informática, Universidad Complutense de Madrid, 1996; original as Computer Ethics, Englewood Cliffs, New Jersey: Prentice Hall, 2003. The first version of the book is published as Computer Ethics, Prentice-Hall, 1985.
13. Maner, W, Starter Kit in Computer Ethics, Helvetia Press, 1978.

14. Moor, J, "What Is Computer Ethics", Metaphilosophy, Vol. 16, No. 4, October 1985, pp. 266-275. Republished at [6].
15. Network Security Bible, Eric Cole, Ronald Krutz, James W. Conley, 2nd Edition, Wiley India Pvt. Ltd.
16. Parker, D, "Rules of Ethics in Information Processing", ACM, Vol. 11, 1968, pp. 198-201.
17. Rogerson, S, "The Ethics of Computing: The First and Second Generations", The UK Business Ethics Network News, Spring 1996.
18. Security in the Digital Age: Social Media Security Threats and Vulnerabilities by Henry A. Oliver, Create Space Independent Publishing Platform. (Pearson , 13th November, 2001)
19. Security in the Digital Age: Social Media Security Threats and Vulnerabilities by Henry A. Oliver, Create Space Independent Publishing Platform.
20. Weizenbaum, J, Computer Power and Human reason: From Judgment to Calculation, Freeman, 1976.
21. Wiener, N, Cybernetics: or Control and Communication in the Animal and the Machine, Technology Press, 1948.
22. Wiener, N, The Human Use of Human Beings: Cybernetics and Society, Houghton Mifflin, 1950; second edition revised, Doubleday Anchor, 1954.

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31	**DEVELOPING TEACHING SKILLS**	**SEC0203103**	**3**	**40-60**

DEVELOPING TEACHING SKILLS

PAPER TITLE: - SKILLS ON PRACTICE TEACHING.

UNIT 1: Concept of teaching and teaching skills, Introduction of some important teaching skills, Phases of Teaching.

UNIT 2: Meaning, nature and importance of Lesson Plan, Criteria of good lesson plan, Herbartian Steps of Lesson Plan.

UNIT 3: Preparation of Lesson Plan for practice teaching (PRACTICAL).

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32	**Drama and Mime**	**SEC0203203**	**3**	**40-60**

Syllabus- Semester II
Skill Enhancement Course (FYUGP)
Skill Course: Drama and Mime SEC0203303
Total Credits: 3

Course Objective:
The course is designed to apply knowledge and understanding in the process of making, performing and responding to drama and mime. Thus, this course would explore performance texts, understand their social, cultural and historical context including the theatrical conventions of the period.

Course Outcome:

i. To gain an insight in the history of Western as well as Indian Performance Arts
ii. To understand the process of performing, making and responding to performance arts
iii. To develop the creative genius among the students
iv. To understand and analyse the roles and processes undertaken in contemporary theatrical practices

Course Content:

Unit I: Theory of Drama Credit: 1

Origin of Theatre (Indian and Western Context), Definition of Drama, Elements of Drama, Structure of Drama, Drama in relation to other Art forms

Classification of Drama: (i) Formal: Tragedy, Comedy, Satire, Farce (ii) Thematic: Historical, Mythological, Romantic (iii) Stylistic: Realistic, Symbolic, Expressionistic, Epic, Absurd

Unit II: Theory of Mime Credit 1

Introduction, Nonverbal Communication, Theory of Pantomime, Speech, Play, Art, Gestures, Energy, Matter, Stillness, Society, Theory of Improvisation (Expression and Movement: Different Improvisation task, Use of Limbs, Eyes and Face, Expressions)

Unit III: Activity Credit 1

Term-end performance of a drama (duration to be specified) and a mime

Suggested Reading:

Aristotle, *Poetics*
Alexandar Iliev, *Towards a Theory of Mime*
Edward Nye, *Mime, Music and Drama on the Eighteenth-Century Stage*
George W. Brandt, *Modern Theories of Drama - A Selection of Writings on Drama and Theatre*
Michael Hays, *Theory of the Modern Drama*
M. H. Abrams, *A Glossary of Literary Terms*

Prepared and submitted by,
Paddaja Roy
Assistant Professor, Department of English
Ratnapith College
Contact No: 8474055349

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33	**DTP**	**SEC0203303**	**3**	**40-60**

DTP

Credits: 3
Teaching Method: Theoretical & Practical

The Post- Graduate Department of Assamese offers a Skill based course on "Assamese DTP & Proofreading".

Objectives:

- To provide the students understanding skills and professional knowledge about computer programs.
- To familiarize different computer software related to typing (specially Ramdhenu) and proofreading in Assamese language.
- To give knowledge on proofreading and making a competent proofreader.

Course Outcome:

- Acquire a basic understanding about various typing software.
- Be familiar with different Assamese fonts.
- Be proficient in the skills of Assamese typing & layout design.
- Eligible for careers in Print & Electronic media also in publication house.
- Be a freelance proofreader through web content, eBooks, blog posts etc.

Unit: I

Basic knowledge of computer, types of software (MicrosoftWord &Adobe PageMaker)

Unit: II

Uses of Assamese Software Ramdhenu & different Fonts specially Gitanjali

Unit: III

Skills & techniques of Proofreading, different types of proofreading and challenges of a proofreader.

Unit: IV

Practical work and Project

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37	**ELT Skill-2**	**SEC0203703**	**3**	**40-60**

SEC: ELT SKILL-II

Code: SEC0203703

Total Credit: 3 **Contact Classes: 30 hrs**

Examinations/Tests: 2 hrs (written and oral/viva)

Language is a skill based subject. The emphasis is on how to learn and teach this skill based subject including the skills of speaking, listening, reading and writing. The objectives set on to prepare students with hands on knowledge of English language teaching by using ICT and other Tools. After completion of the course students will be able to cope up with the modern teaching of English language.

Detail Course Plan with Syllabus

Sl No	Topics	Classes Required	Remarks
1	Nature, Scope and Definition of Language	2	
2	General Principles of Language Learning and Teaching	2	
3	Aims and Objectives of Teaching English in India	2	
4	Place of Mother Tongue in Teaching English	1	
5	Methods of Teaching English	2	
6	Phonetics	10	
7	Four Skills of Teaching English	3	
8	Teaching Poetry and Prose	2	
9	Lesson Planning	3	
10	Presentation Skills	3	
11	Examinations/Tests/VIVA	2	

Recommended Books:

1) Better English Pronunciation- O'Connor J D
2) Introduction to Linguistics- Varshney R L
3) English Language Teaching- Nagaraj G

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39	English Reading & Comprehension	SEC0203903	3	40-60

English Reading & Comprehension

PAPER: English Reading and Comprehension

Objectives: This paper is designed

- for students who have had inadequate exposure to English and hence exhibit a very low level of proficiency in the language
- to help students comprehend simple texts and improve vocabulary
- to enable students from all to broaden their skill-sets in textual interpretation, reading, and writing about texts.

Outcomes (Graduate attributes)

- enhance comprehension skills and enrich vocabulary through the reading of short and simple passages with suitable tasks built around these
- students can engage in short independent compositions

Course Content:

Unit 1: Reading (1 Credit)

- Short and simple passages from the prescribed books
- These texts are to be used to enhance reading and comprehension skills of learners through various textual tasks such as reading aloud, sentence completion, true / false activities, re-ordering jumbled sentences, identifying central ideas, supplying alternative titles, attempting short comprehension questions, etc.

Texts:

1. Short Story: Ismat Chughtai, *Kallu*
2. Essay: VS Naipaul, *East Indian*
3. Poem: AK Ramanujan, *Obituary*

Unit 2: Comprehension (1 Credit)

This unit aims to help students understand that we are surrounded by texts, so thinking about texts, reading, writing, and comprehension are necessary life skills and not merely language skills. Use the texts from Unit 1 to help students enhance the following skills:

- Writing: Descriptive passage making notes drafting points, creating paragraphs outlines, drafts etc
- Speaking: Make short presentations 2-3 minutes long showcasing their understanding of any topical issues
- Listening and responding to short presentations
- Improve their vocabulary

Unit 3: Writing (1 Credit)

This section will introduce students to the structure of a paragraph; they will write a short-guided composition of variable word limits (100- 1000). These skills are to be practiced through activities such as supplying topic sentences to given paragraphs, completing given paragraphs, expressing given facts or information from tables and expressing it in paragraphs, re-ordering jumbled sentences, and then re-writing them as connected paragraphs, using suitable linking devices etc. Relevant sections from the recommended texts in Unit 1 should be used to make students write about contemporary issues like race, gender, caste and violence. Students should be taught to:

- Express concepts through writing
- Think critically and write with clarity
- Write essay length assignments

Reference Books and Materials:

1. Selections from *Individual and Society: Essays, Stories and Poems*, (Pearson/Longman, 2005)
2. *Everyday English*, Delhi: Pearson, 2005
3. *Developing Language Skills I*, Delhi: Manohar, 1997
4. *A Foundation English Course for Undergraduates: Workbook* I, Delhi: Oxford University Press, 1991

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43	Extension Activities	SEC0204303	3	40-60

EXTENSION ACTIVITIES

Total Marks- 75 (30+25+20)

Credit- 3

COURSE OBJECTIVES:

1. To develop positive attitude towards extension activity.
2. To develop the skill of report Writing.

COURSE OUTCOME:

After completion of this course, students will be able to do extension activities.

COURSE CONTENTS:

A. THEORY

UNITS	CONTENTS

Unit-1	Extension Activities: • Meaning, characteristics and objectives of Extension Activity • Principles and importance of Extension • Extension Methods with Particular reference to- Group Discussion, Awareness Campaign, Field Visit.
Unit-2	Role and responsibilities of different stakeholders: • Role of higher educational institutions in Extension Activities. • Role of mass media in extension activities.

B. PRACTICAL

Students will have to involve in any of the following extension activities-

- Visit the nearby village/ area and conduct survey on educational and economic status of the community people.
- Creating awareness of women health, sanitation, social issues, environment etc. in the locality.

GUIDELINES:

- The teachers will have to guide the students in extension activities.
- Teachers will explain the concept and different types of extension activities and help the students to prepare field report.

MODE OF DELIVERY:

Teachers should use lecture, demonstration and any other method as per required for explaining the contents for the students.

EVALUATION PLAN:

- For theory part, written examination will be conducted with 30 marks.
- For Practical Part, evaluation (submission of field report + viva voice examination) will be done by an External Examiner with 25 marks. • Internal assessment will be conducted with 20 marks.

RECOMMENDED READINGS:

Jalihal, K., & Veerabhadriah, V. (2007). *Fundamentals of Extension Education and management in extension.* Concept Publication Co.

Kundu, C. (1986). *Adult Education.* New Delhi: Sterling Publisher Private Limited.

Roychoudhury, B. (2000). *Extension education in Higher Education System.* Guwahati.

Supe, S. (1999). *Introduction to extension education.* Oxford & Ibh Publishing Co. Pvt Ltd.

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44	**Farm Management**	**SEC0204403**	**3**	**40-60**

Farm Management

Credit: (2+1)

Course Description: This course is designed to familiarise the students to the fundamentals of farm management, various types of farming that exist and introduce them to the recent developments in this aspect. The course also expects to enhance the existing knowledge of use of statistical tools of the students and helping them to use such knowledge in practical works.

Unit 1- Farm management: Factors of production, Types of farming: capitalistic farming, specialized farming, dry farming, collective farming, cooperative farming, mixed farming, Integrated Farming, Shifting cultivation, Role of a farm manager, Record keeping, Budgeting for agricultural production,

Farmers' producers' organisation, Marketing of produces, Seed production and certification, Protected cultivation and Precision farming, Agri-preneurship development.

Unit 2- Statistical methods, Central tendency - mean, median, mode,,Use of statistical tools in agriculture- standard deviation, regression and correlation, Methods of data collection, Tabulation, Processing and presentation of data- textual, tables and diagrammatic. Sampling Techniques, probability.

Unit 3- Practical - Project preparation in Agriculture, Horticulture and Integrated Farming, Visit to Agri-preneurs

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46	**Floristic Methods of Vegetation Description**	**SEC0204603**	**3**	**40-60**

Floristic Methods of Vegetation Description

Total Lectures: **36** Credits: **3**

THEORY

UNIT 1: Introduction- Historical account, Functions, biogeography and ecologyof NE India, Terrestrial ecosystem and flora, Wetland flora.Quantitative study and floristic analysis by quadrat methods, Protected areas in NE India. (6 lectures)

UNIT 2: Assessment of Floristic Diversity- Consultations of Herbaria and Literature, Field and Herbarium Methods, Vegetation survey and characterization, Identification and Taxonomic Documentation, Documentation of Endemic, Rare and Threaten plant Taxa, Assessment of anthropogenic factors causing depletion of plant resources.(10 lectures)

UNIT 3: Role ofFloristic studies in Biodiversity conservation. (2 lectures)

UNIT 4: Writing of Flora, Monographs, Revisionary works, Research papers, Description of New taxa. (6 lectures)

UNIT 5: PRACTICAL/ PROJECT (12 lectures)

Assessment of floristic diversity in University/ College campus, Local areas, Wetland, Hills, etc.

Suggested Readings:

1. Jain S K and Rao RR 1977. A Handbook of Field and Herbarium Methods. Today & Tomorrow's Printers and Publishers, New Delhi.

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47	**Folk Music of Goalpara**	**SEC0204703**	**3**	**40-60**

Syllabus- Semester II
Skill Enhancement Course (FYUGP)
Skill Course: Folk Music of Goalpara- SEC0204703
Total Credits: 3

Course Objective: The course is designed to familiarise the students with the socio-cultural aspects in the folk music of Goalpara. Providing an in-depth study of the folk music and songs prevalent in the region and vicinity of Goalpara, this course would not only look into the cultural aspects but would also take into account the historicity and the social life through the platform of songs and music.

Course Outcome:

i. To familiarise the students about the socio-cultural nuances, themes and musical instruments associated with the folk song and music of Goalpara
ii. To reflect upon the society and daily life as presented in the folk songs/music of Golapara
iii. To study the representation and role of nature and woman in the folk songs of Goalpara

Course Content:

Unit I: Introduction Credit: 1

An overview of Folk music and songs prevalent in India with special reference to Assam, Songs and Culture, Characteristics, Prevalent Themes, Social and Cultural Relevance

Unit II: Songs and Music of Goalpara Credit 1

Goalpariya Lokageet, Overview, Types and genres (*bhawaiya, chatka, moishali, mahout*), Songs of Pratima Barua Pandey, Socio-cultural background, Musical Instruments (Dotara, Sharida, Dhol, Ektara, Bahi, Khonjoni, Ghungra, Ghultong), Themes and Imageries, Contemporary folk songs of Goalpara

Unit III: In-depth Study of Select Songs Credit 1

Analysing a few folk songs of Goalpara (*Hastir Kanya, Sonar boron Pakhi, Tomra geile ke ashiben, Goalini Goalini*)
A feminist and ecocritical reading of select folk songs and music of Goalpara
Or
Music Workshop (optional)

Suggested Reading:

Dr. Somenath Bhattacharjee, Dr. Nijora Sharma, *Socio-Cultural Perspective of Goalpariya Folk Song in Assam*
Birendranath Datta, *A Study of the Folk Culture of the Goalpara Region of Assam*
Dwijen Nath, *Goalpariya Lokgeet*
Praphulladatta Goswami, *Folk-Song of Assam*
Dr. Birinchi Kumar Barua, *Axomor Loka-Sanskriti*

Prepared and submitted by,
Paddaja Roy
Assistant Professor, Department of English
Ratnapith College
Contact No: 8474055349

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54	**Geographical Information Systems**	**SEC0205403**	**3**	**40-60**

Course Name: Geographical Information Systems
SEC: Paper Code: SEC0205403
Total Marks: 75 Marks (Theory=45, Internal Assessment=30 Marks)
(By Pandu College)
Credits: 3 Total Lectures: 45

Course Outcomes: This intensive course covers different components of GIS that are necessary to work with geospatial data. This basic concept will help students to proceed and adopt for future engagement in the study of different dimension of earth surface like changing land use landcover, flood zonation, groundwater studies, mapping air quality index both in local, national and international level.

Course Outline:

Unit I: Meaning and Concept of GIS; History, Components of GIS and its products

Unit II: Significance and application of GIS in geographical studies; Remote Sensing: Definition and scope Importance, types

Unit III: Aerial photography and satellite imagery; Concept of Electromagnetic Radiation

Unit IV: Data types: Spatial and non-spatial (Raster and Vector); Concept and techniques Geo-referencing

Unit V: Preparation of report using GIS software: A project file using GPS points, lines and polygon of nearby village/Interpretation of Aerial Photography and Satellite imagery/Anyone exercise from the above mentioned themes using GIS software. (Field/Project work)

Reading List:

1. Cambell J.B.,2007: Introduction to Remote Sensing, Guildford Press.
2. Chang K.T.,2012: Introduction to Geographic Information Systems, sixth edition, McGraw Hill
3. Joseph G.2005: Fundamentals of Remote Sensing, United Press India
4. Patel A.N & Singh S.,2018:Remote Sensing, Principles and Application, Scientific Pulishers (India)
5. Sarkar A.2015:Practical Geography, A systematic approach. Orient Black swan Private Ltd., New DElhi

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56	Guest Relation Executive	SEC0205603	3	40-60

Guest Relation Executive

Skill Enhancement Course (SEC)

Semester II

Paper Name: **Guest Relation Executive**

Credits: 3
Theory classes: 17 classes (one hour each – 17 hrs)
Practical classes: 16 classes (two hours each – 32 hrs)

Total Marks: 100
Theory: 50 Marks
Practical: 50 Marks

Practical classes will include: 16 hours of survey, 4 hours of presentation preparation, 4 hours of group discussion, 8 hours of project work preparation.

Unit – 1: Understanding the Hotel Industry **Marks: 15**

- Different types of accommodation and their significance in hospitality industry
- Categories of hotels
- Different departments of a hotel and functions
- Understanding the Front Office – Departments and functions

Unit – 2: Functions of Guest Relation Executive **Marks: 10**

- Guest relation Executive – definition
- Training of front office employees
- Activity upon arrival of guest
- Activity at the time of guest check out

Unit – 3: Communication **Marks: 15**

- Types of communication
- Communication with guest
- Interacting with superior and colleagues
- Etiquettes and personal grooming

Unit – 4: Dealing with customers **Marks: 10**

- Customer relationship management
- Handling complaints
- Feedback of guest
- Establishing customer rapport

Reading List:

Bhatia, A.K., (2002)*Tourism Principles and Practices.*Sterling Publishers.

Sharma, Sunil., (2005) *Managing Hotel and Tourism Operation*.Akansha Publishing.

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Herbal Technology

Total Lectures : 33 Credits : 3 (Theory -2, practical -1)

THEORY

Unit 1: Herbal medicines: history and scope - definition of medical terms - cultivation harvesting-processing- storage -marketing and utilization of medicinal plants. **(4 Lectures)**

Unit 2: Pharmacognosy - systematic position and medicinal uses of the following herbs in curing various ailments; Tulsi, Ginger, Black pepper, Turmeric. **(6 Lectures)**

Unit 3: Phytochemistry - active principles and methods of their testing -identification and utilization of the medicinal herbs; *Catharanthus roseus* (cardiotonic), *Clerodendron phlomoides* (anti-rheumatic) and *Centella asiatica* (memory booster). **(6 Lectures)**

Unit 4: Analytical pharmacognosy: Biological testing of herbal drugs - Phytochemical screening tests for secondary metabolites (alkaloids, flavonoids, steroids, triterpenoids, phenolic compounds) **(6 Lectures)**

PRACTICAL

1. preparation of herbarium of the medicinal plants included in the syllabus **(5 lectures)**
2. Preliminary Phytochemical screening tests for secondary metabolites (alkaloids, flavonoids, steroids, triterpenoids, phenolic compounds) **(6 lectures)**

Suggested Readings

1. Glossary of Indian medicinal plants, R.N.Chopra, S.L.Nayar and I.C.Chopra, 1956. C.S.I.R,New Delhi.
2. The indigenous drugs of India, Kanny, Lall, Dey and Raj Bahadur, 1984. International Book Distributors.
3. Herbal plants and Drugs Agnes Arber, 1999. Mangal Deep Publications.
4. Ayurvedic drugs and their plant source. V.V. Sivarajan and Balachandran Indra 1994.Oxford IBH publishing Co.
5. Ayurveda and Aromatherapy. Miller, Light and Miller, Bryan, 1998. Banarsidass, Delhi.
6. Pharmacognosy, Dr.C.K.Kokate et al. 1999. Nirali Prakashan.
7.

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58	Heritage Study of India	SEC0205803	3	40-60

Heritage Study of India

Paper Code SEC 0205803

Sub: History (Skill Enhancement Course)

-by Department of History Mahatma Gandhi College, Chalantapara

Unit – 1 Indian Culture: An Introduction 30 mark

1. Characteristics of Indian Culture, Significance of geography on Indian Culture.
2. Society in India through ages – ancient period-varna and Jati, family and marriage in India, position of women in ancient India, contemporary period; caste system and communalism.
3. Religion And philosophy in India: ancient period: pre- vedic and vadic religion, Buddhism and Jainism, Indian philosophy- Vedanta and Mimansa School of philosophy.

Unit- 2 Indian Languages and Literature 30 mark

1. Evolution of script and languages in India: Harappan Script and Brahmi Script.
2. Short history of Sanskrit literature: the Vedas, the Brahmanas and Upanishad and Sutras, epic; Ramayana and Mahabharata and porans.
3. History of Buddhist and Jain literature in Pali, Prakrit and Sanskrit, Sangam literature and odia literature.

Unit- 3 A brief history of Indian Arts and Architecture 15 Mark

1. Indian Arts and Architecture: Gandhar School And Mathure School of Arts ; Hindu temple architecture, Buddhist architecture, medieval architecture and colonial architecture.
2. Indian painting tradition: ancient, Medieval, Modern Indian Painting and Odishan Painting tradition

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59	Hindi Advertisement	SEC0205903	3	40-60

Hindi Advertisement

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61	Historical Tourism in North East India	SEC0206103	3	40-60

Part-1 Theory

Unit I: Theoretical aspects of tourism, Elementary geography and bio – diversity of North East India

[a]: Tourism – Concept, meaning and significance
[b]: Different types of Tourism
[c]: Physiographical divisions, water bodies and climatic conditions
[d]: Important wildlife habitats : Kaziranga, Manas, Orang, Nameri, Dibru Saikhowa, Namdapha, Keibul Lamjao, Rain forests of Assam.

Unit II: Ancient remains and Important tourist places of the North – East India
[a]: Ancient remains: Goalpara, Ambari, Tezpur, Deopahar, Malinithan,Doyang– Dhansiri Valley
[b]: Tourist places: Shillong, Cherapunjee, Aizwal, Gangtok, Kohima, Tawang, Poa Mecca (Hajo), Azan Pir Dargah, Jatinga

Unit III: Architectural Heritage
[a]: Dimapur, Kasomari, Maibong, Khaspur
[b]: Charaideo, Garhgaon, Sivasagar and Rangpur
[c]: Ujayanta palace, NeerMahal
[d]: Kamakhya, HayagrivaMadhava, Tripura Sundari Temple, Rumtek monastery
[e]: Kangla fort

Part-2 Practical

1. Preparation of a Tourist Map of North- East India showing important Historical Tourist Destinations.
2. Trend of growth of Foreign Tourist arrivals in North- East India since 2002 using line graph.
3. Preparation of a Tourist Guide Map of Assam showing locations of National Parks and Wildlife sanctuaries.
4. Preparation of a Tourist Map of North-East India showing Archeological Sites.

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62	HTML Programming	SEC0206203	3	40-60

HTML PROGRAMMING

Total credit: 03(Theory: 01, Practical: 02) **Total Marks: 100**
Theory:30, Practical: 50, Internal: 20(Sessional: 10, Practical Demo: 6, Attendance: 4)

Course objective:

1. To introduce the fundamentals of Internet, and the principles of web design.
2. To construct basic websites using HTML and Cascading Style Sheets.
3. To build dynamic web pages with validation using Java Script objects and by applying different event handling mechanisms.

Course learning outcome:

1. Insert a graphic within a web page.
2. Create a link within a web page.
3. Create a table within a web page.
4. Insert heading levels within a web page.
5. Insert ordered and unordered lists within a web page.
6. Use cascading style sheets.
7. Create a web page.
8. Validate a web page.
9. Publish a web page.

Course Content:

UNIT 1: The Basics (3 Lectures)

Introduction to HTML, the Head, the Body, Colors, Attributes, Check box, Radio Button, Text, Text Area, Lists, ordered and unordered.

UNIT 2: HTML Formatting (3 Lectures)

New Paragraph, Line Break, Blank Space, Preformatted text, Div element Bold text, Important text, Italic text, Emphasized text, Marked text, Small text, Deleted text, Inserted text, Subscript text, Superscript text, HTML quotations, HTML Comments, HTML colors

UNIT 3: Links (3 Lectures)

Introduction, Relative Links, Absolute Links, Link Attributes, Using the ID Attribute to Link within a Document

UNIT 4: Images (2 Lectures)

Putting an Image on a Page, Using Images as Links, Putting an Image in the Background

UNIT 5: Tables (5 Lectures)

Creating a Table, Table Headers, Captions, Spanning Multiple Columns, Styling Table

UNIT 6: Forms (4 Lectures)

Basic Input and Attributes, Other Kinds of Inputs, Styling forms with CSS, Whereto Go fromHere.Form validation using JavaScript.

Practical/Lab work to be performed:

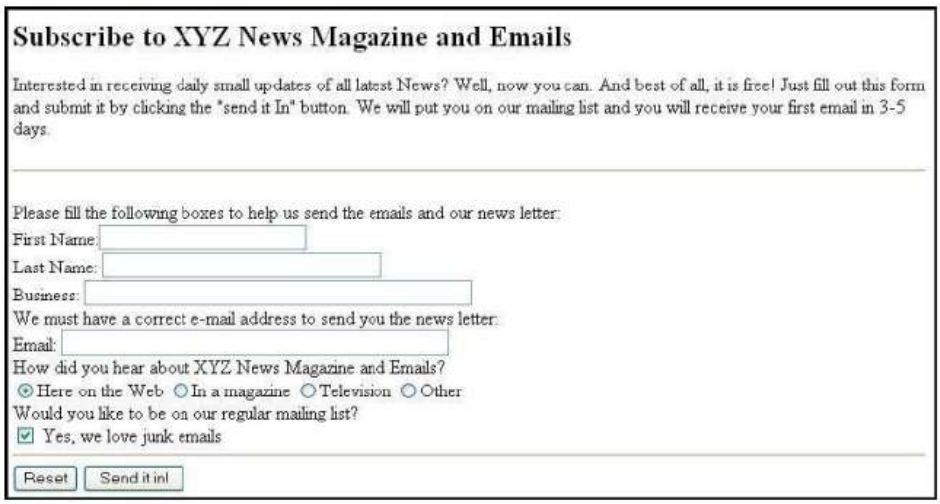
1. Create an HTML document with the following formatting options: (i) Bold (ii) Italics (iii) Underline (iv) Headings (Using H1 to H6 heading styles) (v) Font (Type, Sizeand Color) (vi) Background (Colored background/Image in background) (vii) Paragraph (viii) Line Break (ix) Horizontal Rule (x) Pre tag.
2. Create an HTML document which consists of: (i) Ordered List (ii) Unordered List (iii) Nested List
3. Create an HTML document which implements Internal linking as well as External Linking.
4. Create a table using HTML which consists of columns for Roll No., Student's name and grade.

Result		
Roll No	Name	Grade

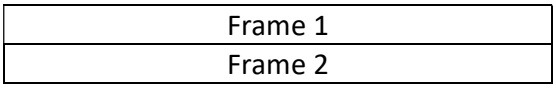
5. Create a Table with the following view:

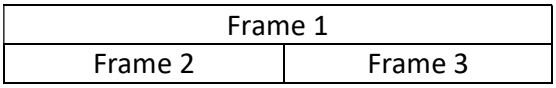
<table>
<tr><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td colspan="3"></td><td colspan="2" rowspan="3">Place an Image Here</td></tr>
<tr><td colspan="3"></td></tr>
<tr><td colspan="3"></td></tr>
</table>

6. . Create a form using HTML which has the following types of controls: (i) Text Box (ii) Option/radio buttons (iii) Check boxes (iv) Reset and Submit buttons.



7. Create HTML documents (having multiple frames) in the following three formats:





Suggestion Books:

1. Virginia DeBolt, Integrated HTML and CSS A Smarter, Faster Way to Learn Wiley / Sybex , 2006

2. Cassidy Williams, Camryn Williams Introduction to HTML and CSS, O'Reilly, 2015

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68	**LaTeX**	**SEC0206803**	**3**	**40-60**

PAPER NAME: LaTeX
PAPER CODE: SEC0206803
Total Credits: 3 (Theory: 2 + Practical: 1)

THEORY:
Total lectures: 30

COURSE OBJECTIVES:
This course aims to familiarize the students with typesetting software LaTeX which will enable them to prepare documents especially with mathematical equations, graphs and figures. This course will also acquaint them with the Beamer presentation techniques.

COURSE OUTCOME:
After studying this course the student will be able to:

a. Create and typeset a LaTeX document.

b. Typeset a mathematical document using LaTeX.

c. Learn about creating simple pictures using LaTeX.

d. Create a beamer presentation.

Unit 1: Elements of LaTeX (Lectures: 15)
Typing a LaTeX document, typing a mathematical document.

Unit 2: Graphics in LaTeX (Lectures: 10)
Creating simple pictures, PS Tricks.

Unit 3: Beamer (Lectures: 5)
Beamer presentation.

[1] Chapter 9, [1,2] Chapter 10, [3] Chapter 11.

PRACTICAL: (Hours: 15)

At least six practical should be done by each student. The teacher can assign practical from the exercises from [1].

BOOKS RECOMMENDED:

1. Erickson, M. J. and Bindner, D., *A Student's Guide to the Study, Practice and Tools of Modern Mathematics*, CRC Press, Boca Raton, FL, 2011.

REFERENCE BOOKS:

1. Lamport, L., *LATEX: A Document Preparation System, User's Guide and Reference Manual.* Addison-Wesley, New York, second edition, 1994.

Syllabus 2

Guwahati College

Skill Enhancement Course: LaTeX

(Syllabus for 2nd Semester GU-FYUGP)

Objectives : To introduce students with a software that is being widely used for typesetting specially in Mathematics field. To make students know importance of this software for publishing research articles, papers, project reports and books and thereby help them to be comfortable with the software .

Unit I : Installation of LaTeX 8 Hours

i) Installation of TexStudio/TexMaker and MikTeX/TexLive.
ii) Class and packages
iii) Latex programming and commands, sample packages
iv) Error messages : Some sample errors, list of LaTeX error messages

Unit II : Formating of output document : 8 Hours

i) Fonts, symbols, indenting, paragraphs, line spacing, word spacing, titles and subtitles
ii) Document class, page style, parts of the documents, table of contents
iii) Command names and arguments, environments, declarations
iv) Theorem like declarations, comments within text,

Unit –III : Mathematical formulae : 8 Hours

i) Mathematical environments, math mode , mathematical symbols
ii) Graphic package, multivalued functions, drawing matrices
iii) Tables, tables with captions
iv) References to figures and tables in text

Unit –IV : Drawing with LaTeX 8 Hours

i) picture environments
ii) extended pictures, other drawing packages
iii) Preparing book, project report in LaTeX.

Unit –V : Slide Presentation 8 Hours
i) Introduction of Beamer
ii) Slide preparation and presentation

Reference Book :
Guide to LATEX, fourth edition, Helmut Kopka,Patrick W.Daly

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71	**Manuscript Preparation in Bodo**	**SEC0207103**	**3**	**40-60**

Manuscript Preparation in Bodo

Marks: 80 (Theory) + 20 (Internal Assessment) Total =100

Course outcomes:
- Come to know about manuscript preparation and use of punctuations and symbols
- About benefits of editing and taking into MS word & PageMaker

Unit: I Types of Manuscript: Use of Punctuation, Sign and Symbols 20
Unit: II Importance of Editing and Proof Reading; Symbols used in Proof reading, Proofreader, Proof reading process 20
Unit: III Process, Purpose and benefits of Editing 20
Unit: IV Taking Manuscripts in MS Word Format and Page Maker etc. 20

Suggested readings:
A Few Suggestions to McGraw-Hill Authors-McGraw Hill Book Company, Forgotten Books
Guidelines for manuscript preparation-Gayle Giese & Pick Edmondson

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72	Marketing of Indigenous Agricultural Products	SEC0207203	3	40-60

Marketing of Indigenous Agricultural Products

Unit -I Agricultural Marketing:

Nature and Scope of Agricultural Marketing, Objectives of Agricultural Marketing, Classification of Agricultural Products and Markets, Distinction between Agricultural Marketing Vs Rural Marketing, Agricultural Marketing Scenario in India, problems and prospects of Agricultural Marketing in India.

Unit- II Marketing Institutions of Agricultural Products:
Agricultural Produce Market Committee: Meaning, Objectives, History of Market regulation, Features of regulated Market, advantages of regulated Markets, defects of regulated Markets (Mandi Samiti), Government e marketplace (GEM), Cooperative Marketing: Need of cooperative marketing, organization of cooperative marketing and its functions, Pricing- pricing strategies for agricultural products methods of pricing, factors affecting agricultural products price.

Unit -III Agricultural Market Information & channel of Distribution:
Meaning and Importance of market Information in Agricultural Commodities, Types of Information, Essential characteristics of good marketing information, sources of marketing information, Meaning and definition of marketing channels, study of marketing channels for different agricultural committee.
Information Technology: E- Trading, e-choupals, websites and IT tools for marketing, Applications of IT in agricultural marketing.

Unit-IV Value Chain Agricultural Marketing:
Meaning, type, advantages of grading & labeling, AGMARK producers, warehousing, meaning & functions of warehousing, types of warehousing, central warehousing corporation, state warehousing corporation, role of transportation in agricultural marketing, means of transportation, problems in transpiration in agricultural marketing and packaging of different agricultural products.

Unit- V Project related work:
a. Visiting to agricultural product processing unit,
b. Visiting to rural go downs and cold storage,
c. Visiting to fair price shop,
d. Visiting to fertilizers Marketing agencies,
e. Identification of marketing charurels for agricultural commodities
f. Any other related fields.

References:
l. Agricultural Marketing in India, S.S. Acharya & N. L. Agarawal, CBS Publishers
2. Marketing of Agricultural Produce in India, A. P. Gupta
3. Agricultural Marketing, H. R. Krishna Gauda

4. Principles and Practices of Marketing, C. B. Memoria and R. L. Joshi
5. Agricultural Marketing, Trade and Prices, Devendra Prasad & Om Prakash Murya, Rama Publishing House
6. Marketing of Agricultural produces, Richard L Kohis & Joseph N Uhi, Pearson

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73	**Maternal and Child Nutrition**	**SEC0207603**	**3**	**40-60**

Home Science

SEMESTER : II
SEC(MATERNAL AND CHILD NUTRITION)
Paper Code: SEC0207303
CREDITS: 3 (2+1)

THEORY LECTURES: 30 hrs
PRACTICAL CLASSES:15 (30 hrs)
Evaluation Pattern: Internal Evaluation: 20; External Evaluation: Theory: 30, Practical:25)

Course Objectives:

- To have a concept of maternal health, maternal mortality and nutritional status.
- To acquire knowledge on child health, child mortality and malnutrition.
- To get familiarised with nutitional concerns and guidelines for infants and child feeding.

Course Outcomes:

- Students will understand the importance of nutritional needs for pregnant women, nursing mothers and children.
- Understand the concept of assessment and management of malnutrition among children.
- Students will have an overview of maternal and child nutrition policies and programmes.
- Acquire practical knowledge in preparing nutritional diets for pregnant women, lactating women and children.

Unit I 8

- Nutritional needs during pregnancy, common disorders of pregnancy (Anaemia, HIV infection,Pregnancy induced hypertension).
- Maternal health and nutritional status,maternal mortality and issues relating to maternal health.

Unit II 7

- Nutritional needs of nursing mothers and infants, determinants of birth weight and consequences of low birth weight.

Unit III 10

- Nutritional concerns, guidelines for infant and young child feeding, Breastfeeding, weaning and complementary feeding.
- Assessment and management of moderate and severe malnutrition among children.
- Child health and child mortality

Unit IV 5

Overview of maternal and child nutrition policies and programmes.

PRACTICAL (30 hrs)

1. Planning and Preparation of nutritious Diets and calculate the important nutrients for:
   a) Infants
   b) Pre- Schooler
   c) Pregnant Women
   d) Lactating Women

REFFERENCE

- Wadhwa A and Sharma S (2003). Nutrition in the Community-A Textbook. Elite Publishing House Pvt. Ltd. New Delhi.
- Bamji M S, Krishna swamy K and Brahmam G N V (Eds) (2009). Textb of Human Nutrition, 3rd edition. Oxford and IBH Publishing Co. Pvt. Ltd New Delhi.72
- National Guidelines on Infant and Young Child Feeding (2006). Ministry Women and Child Development, Government of India.
- Srilakshmi B (2012). *Nutrition Science*. 4th Revised Edition, New Age International Publishers.

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76	Microbial Diagnosis in Health Clinics	SEC0207603	3	40-60

Microbial Diagnosis in Health Clinics
Paper Code: SEC0207603

Total lectures: 33 Credits: 3 (Theory-2, Practical-1)

THEORY:

Unit 1 Importance of diagnosis of diseases (5 lectures)

Bacterial, Viral, Fungal and Protozoan Diseases of various human body systems and their causative agents.

Unit 2 Collection of Clinical Samples and transport (4 lectures)

Collection of clinical samples (oral cavity, throat, skin, urine and faeces) and precautions required. Method of transport of clinical samples to laboratory and storage.

Unit 3 Direct microscopic examination and culture. (5 lectures)

Examination of sample by staining - Gram stain, Ziehl-Neelson staining for tuberculosis, Giemsa stained thin blood film for malaria. Preparation and use of culture media - Blood agar, Chocolate agar, Lowenstein-Jensen medium, MacConkey agar. Distinct colony properties of various bacterial pathogens.

Unit 4: Serological and Molecular methods (4 lectures)

Serological Methods - Agglutination, ELISA, immunofluorescence

Unit 5: Testing for Antibiotic sensitivity in Bacteria (5 lectures)

Importance, Determination of resistance/sensitivity of bacteria using disc diffusion method.

PRACTICAL:

1. Identification of human blood groups . (4 lectures)
2. Study of composition of Mannitol salt agar , EMB agar, Mac Conkey agar. (3 lectures)
3. Collection of sample from skin by swab method. (3lectures)

Suggested Readings:

1. Ananthanarayan R and Paniker CKJ (2009) Textbook of Microbiology, 8th edition, Universities Press Private Ltd.
2. Brooks G.F., Carroll K.C., Butel J.S., Morse S.A. and Mietzner, T.A. (2013) Jawetz, Melnick and Adelberg's Medical Microbiology. 26th edition. McGraw Hill Publication
3. Randhawa, VS, Mehta G and Sharma KB (2009) Practicals and Viva in Medical Microbiology 2nd edition, Elsevier India Pvt Ltd
4. Tille P (2013) Bailey's and Scott's Diagnostic Microbiology, 13th edition, Mosby
5. Collee JG, Fraser, AG, Marmion, BP, Simmons A (2007) Mackie and Mccartney Practical Medical Microbiology, 14th edition, Elsevier

Syllabus 2:

Total Marks: 75(External-30, Internal-20, Practical-25)

Credit: 3(2+1) **Theory- 2 Credit**

Course Outcome: After completing this course student will be able to acquire the capacity of Microbial Diagnosis in Health Clinics

Objective : To make the students to understand the fundamental knowledge of clinical diagnosis of microbial disease		
Unit No.	**Content**	**Hrs**
1	A) Common diseases and their causative agents: Typhoid, cholera, malaria and AIDS. Causative agents: Bactria, viruses, parasites, fungi and sporozoites. B) Collection and processing and of clinical samples: Blood, Urine, Sputum, CSF and Faeces.	10
2	A) Steps in disease diagnosis: Microscopy, smear preparation, staining and staining types–Grams staining, acid fast staining. B) Cultivation of microorganisms: preparation of nutrient media–Nutrient agar, Blood agar, salmonella shigella agar, EMB agar and McConkey's agar, Inoculation and incubation in brief.	10
3	Serology– definition and role of serum, plasma, serological methods–Agglutination, precipitation, common tests– WIDAL test, VDRL test and ELISA test. B) Rapid disease diagnosis tests and kits–HIV, Dengue kit, swine flu kit.	10

Practicals(1 Credit): 25 marks.

1. Demonstration of Widal Test.
2. Demonstration of VDRL test.
3. Demostration of HbsAg.
4. Perform Gram Staining.
5. Perform Acid fast staining.

Reference Book:

SL No	Title	Authors	Publisher
1	Test Book of microbiology	Ananthanarayan and Panikar	Universities Press(India) Private limited
2.	Test Book of mnicrobiology	Sunindar Kumar	Jaypee
3.	Medical Laboratory technology Methods & interpretation	Ramnik Sood	Jaypree
4.	Microbiology	Prescott	Tata McGraw Hill

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77	Microsoft Excel (Advance)	SEC0207703	3	40-60

Microsoft Excel (Advance)

(Dept. of Mathematics, Madhab Choudhury College, Barpeta)
Paper Code: SEC0207703
Paper Cradit:3
(Theory mark:30, Practical mark:25)

Course Description: This course is designed to provide comprehensive training in Microsoft Excel, from basic to advanced levels. Participants will learn to navigate the Excel interface, perform calculations, manage data effectively, create charts and graphs, and automate tasks using advanced functions and formulas. By the end of the course, students will have the skills to efficiently use Excel for various tasks, including data analysis, financial modeling, and report generation.

Course Objectives:
1. Understand the Excel interface and navigation.
2. Learn basic to advanced formulas and functions.
3. Master data management techniques, including sorting, filtering, and data validation.
4. Create and customize charts and graphs for data visualization.
5. Utilize advanced features such as PivotTables and Pivot Charts for data analysis.
6. Develop proficiency in Excel automation using macros and VBA.
7. Explore data analysis tools like What-If Analysis and Goal Seek.
8. Learn best practices for organizing and optimizing Excel workbooks.

Course Duration: 10 Weeks (20 Sessions)

Unit 1: Introduction to Excel, Formulas and Functions (Mark: Th-10, Prac-5)

- Introduction to Excel interface and navigation
- Basic spreadsheet operations (entering data, formatting cells)
- Simple calculations and functions (SUM, AVERAGE, MAX, MIN)
- Managing worksheets and workbooks
- Understanding cell references (relative, absolute, mixed)
- Using built-in functions (IF, VLOOKUP, INDEX-MATCH)
- Logical functions (AND, OR, IFERROR)
- Text functions (CONCATENATE, LEFT, RIGHT)
- Date and time functions

Unit 2: Data Management and Data Visualization (Mark: Th-10, Prac-10)

- Sorting and filtering data
- Data validation and drop-down lists
- Removing duplicates and data cleaning techniques
- Working with tables and structured references
- Introduction to named ranges
- Creating and customizing charts (bar, line, pie, scatter)
- Advanced chart elements (trendlines, error bars)
- Using Sparklines for in-cell data visualization
- Conditional formatting for visual data analysis

Unit 3: Advanced Techniques (Mark: Th-10, Prac-10)

- PivotTables and PivotCharts for data analysis
- Introduction to Macros and VBA (Recording macros, basic coding)

• Data analysis tools (What-If Analysis, Goal Seek)
• Protecting and securing workbooks
• Optimizing workbook performance and file size

Resources:
• Textbook: "Excel 2023: From Beginner to Expert" by Richard Wilson
• Online tutorials and video demonstrations
• Microsoft Excel Help Center and support forums

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83	Oral Culture and Oral History	SEC0208303	3	40-60

Course Name: Oral Culture and Oral History
SEC: Paper Code: SEC0208303
Total Marks: 75 (Theory= 45, Internal Assessment= 30)
Credits= 3 Total Lectures= 45

Course Outcome:
After this course the students will be able to explain complex interrelationships of structures or events in the context of broader social and cultural framework of societies through 'public memory' and use oral history to preserve oral culture and local history The students will be able to espouse the relevance to the northeastern region of India with its diverse culture and ethnic communities whose history is largely oral. The students will be able to use 'Public memory' as a tool and a source not only to write public history but also to explore new knowledge in the humanities , social sciences and even in disciplines like architecture, communication studies, gender studies, English, history, philosophy, political science, religion, and sociology.

Unit I. Concepts:

Unit II. History and Historiography

Unit III. Methodology:

Unit IV. Potential areas for Oral History research:

Readings:

Thompson, Paul R., *Voice of the Past: Oral History,* OUP, Great Britain, 1978
Ritchie, Donald A.:*Doing Oral History: A Practical Guide,* OUP,New York, 2003.
Vansina, Jan, *Oral Tradition as History*, Madison: University of Wisconsin Press. 1985
Butalia, Urvashi, *The Other Side of Silence: Voices from the Partition of India,* Penguin. 2017.
Humphries: *The Handbook of Oral History*.
John Miles Foley, Oral *Formulaic-Theory: An Introduction &Annotated Biblio*graphy, New York & London: Garland, 1985
Das, Veena,(ed.), *Mirrors of Violence: Communities, Riots & Survivors in South Asia*, Delhi,OUP,1990

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86	Pharmaceutical Chemistry	SEC0208603	3	40-60

PHARMACEUTICAL CHEMISTRY

Skill Enhancement Course (SEC)

Paper Code: SEC0208603

Total Credits: 3 (Theory -2, practical -1)
Total Lectures: 30

Course Objective: *This primary objective of this course is to introduce students to the fundamentals of drug design and development process, drugs for various diseases available in market, their mode of action and side effects. Students are expected to learn the biosynthetic procedures of various bio-relevant small molecules.*

Learning Outcome: *Students will be able to appreciate the drug development process, identify various small molecules used for treatments different ailments and other physiological processes.*

Drugs & Pharmaceuticals:
Drug discovery, synthesis of the representative drugs of the following classes: analgesics, antipyretic, anti-inflammatory (aspirin, paracetamol, ibuprofen), antibiotics (chloramphenicol), antibacterial and antifungal (sulphonamides, sulphanethoxazol, sulphacetamide, trimethoprim), antiviral (acyclovir), drugs effecting central nervous system (phenobarbital, diazepam), cardiovascular (glyceryl trinitrate), antilaprosy (dapsone), HIV-AIDS related drugs (AZT-Zidovudine).

Fermentation:
Aerobic and anaerobic fermentation, production of (i) ethanol and citric acid, (ii) antibiotics (penicillin), (iii) vitamin B2, vitamin B12 and vitamin C.

Practicals:
1. Preparation of Aspirin and its analysis.
2. Preparation of magnesium bisilicate (antaid).

Recommended Books:
1. Graham L. Patrick: *An Introduction to Medicinal Chemistry, Oxford University* Press, UK.
2. Gareth Thomas: *Fundamentals of Medicinal Chemistry*, Wiley.
3. Hakishan, V.K. Kapoor: *Medicinal and Pharmaceutical Chemistry,* Vallabh Prakashan, Pitampura, New Delhi.
4. William O. Foye, Thomas L., Lemke, David A. William: *Principles of Medicinal Chemistry*, B.I. Waverly Pvt. Ltd. New Delhi.

Syllabus 2:

(Contact Hours: 45 Lectures, Credit: 3)

Full Marks=75 [End Semester Examination (30) + Internal Assessment (20) + Practical/Project (25)]

Drugs & Pharmaceuticals:

Drug discovery and design, Source of drugs, Classification of drugs, The main routes of drug administration and distribution in the body, The pharmacokinetic phase of drug action, Bioavailability of a drug, The pharmacodynamic phase, Structure–activity relationships (e.g. antibacterial activity of 4-alkyl substituted resorcinols), Quantitative structure–activity relationships, synthesis of the representative drugs of the following classes: antacids (Cimetidine), analgesics (Aspirin), antipyretic (Paracetamol), anti-inflammatory (Ibuprofen), antibiotics (Chloramphenicol), antimalarials (Chloroquine), antibacterial and antifungal (Sulphonamides, Sulphanethoxazol, Sulphacetamide, Trimethoprim), antiviral (Acyclovir), drugs effecting central nervous system (Diazepam), cardiovascular (Glyceryl Trinitrate), antilaprosy (Dapsone), HIV-AIDS related drugs (AZT- Zidovudine).

Practicals/Project Work (Any one of the experiment or Project Work to be set in the Examination):

1. Preparation of Aspirin.
2. Preparation of Paracetamol.
3. Preparation of Magnesium Bisilicate (Antacid). OR Investigatory Project work

Recommended Books:

1. Gareth Thomas: *Fundamentals of Medicinal Chemistry*, Wiley.
2. Graham L. Patrick: *An Introduction to Medicinal Chemistry, Oxford University* Press, UK.
3. Saha Chandan, Chakraborty Biswanath, Chakraborty Suchandra, Basu Kaushik: *Lecture on Pharmaceutical and Pesticide Chemistry*, TECHNO WORLD , Kolkata
4. Hakishan, V.K. Kapoor: *Medicinal and Pharmaceutical Chemistry,* Vallabh Prakashan, Pitampura, New Delhi.

Particulars of Course Designer (Name, Institution, email id):

1) Dr. Diganta Bhuyan, Barnagar College, digantabhuyan@barnagarcollege.ac.in

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92	Proofreading	SEC0209203	3	40-60

Proofreading

Unit 1- Introduction To General Proof Reading (It will cover who needs a proofreader, the skills one needs to be successful, the difference between proofreading and editing/ copy editing) (3 Lectures)

Unit 2- Proofreading Mindset (Different types of markets that one can specialize in as a proofreader and learn some common terms used in the industry) (5 Lectures)

Unit 3- Proofreading Basics (It includes most common types of error to be watched) (5 Lectures)

Unit 4- Proofreading methods and practices (It includes different types of proofreading methods with through lessons on how to make the word best) (5 Lectures)

Unit 5- Turning Proofreading into a business (It will make one to learn how to build own business) (5 Lectures)

COURSE OUTCOME:

On completion of this skill enhancement course the student-

- Understand the use of style sheets and style guides in proofreading
- Demonstrate how to create and use a style sheet
- Describe ones job as proofreader
- Demonstrate basic proofreading skills

Total Marks = 100 (Theory 50+ Practical 50 Marks)

Syllabus 2

The Post- Graduate Department of Assamese offers a Skill based course on "Assamese DTP & Proofreading". Credits: 3

Teaching Method: Theoretical & Practical

Objectives:

- To provide the students understanding skills and professional knowledge about computer programs.
- To familiarize different computer software related to typing (specially Ramdhenu) and proofreading in Assamese language.
- To give knowledge on proofreading and making a competent proofreader.

Course Outcome:

- Acquire a basic understanding about various typing software.
- Be familiar with different Assamese fonts.
- Be proficient in the skills of Assamese typing & layout design.

- Eligible for careers in Print & Electronic media also in publication house.
- Be a freelance proofreader through web content, eBooks, blog posts etc.

Unit: I
Basic knowledge of computer, types of software (Microsoft Word &Adobe PageMaker)
Unit: II
Uses of Assamese Software Ramdhenu & different Fonts specially Gitanjali
Unit: III
Skills & techniques of Proofreading, different types of proofreading and challenges of a proofreader.
Unit: IV
Practical work and Project

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93	**PSYCHOLOGY IN EDUCATION**	**SEC0209303**	**3**	**40-60**

Four Year Undergraduate Programme (FYUGP) Syllabus
Subject Name: Education (SEC)
Course Name: Psychology in Education

Unit 1: Psychology and Education
- Meaning and Characteristics of Psychology.
- Relation between Education and Psychology.
- Educational Psychology- Meaning and Scope.
- Importance of Educational Psychology in teaching learning process.
- Methods of Educational Psychology.

Unit 2: Instincts
- Meaning, characteristics of Instincts.
- Modification of Instincts and its methods.
- Role of Instincts in Education.

Unit 3: Emotion
- Meaning, Definition of Emotion.
- Characteristics of Emotion.
- Role of Emotions in Childs life.

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94	Public Speaking Skill	SEC0209403	3	40-60

PUBLIC SPEAKING SKILL
Paper Code: SEC0209403
Total marks -75 (External-30 Internal 20 Practical: 25)
Credit -3 (2+1)
Theory (2 Credits)

Course Content

Units	Contents	Marks
Unit -1	Public Speaking and Communication Skill *Meaning and importance of Public Speaking. *Components of Public Speaking: Illustration, Voice modulation, Sense of humour. *Principle of effective Public Speaking, Principle of Preciseness, Principle of Clarity, Principle of completeness, Principle of consciousness * Ways of becoming Better Public Speaking *Types of Communication: verbal and non-verbal	25
Unit-2	Personality Development anf Motivation as Means of Effective Public Speaking * Concept of Nature of Personality *Types of Personality: Extrovert and Introvert *Roles of Personality in Effective Communication *Meaning and Nature of Motivation	25

b. Practical(1 Credit) 25 Marks

- The Students shall prepare a write up based on topic selected for speech.
- Word limit for the write-of is maximum 2000.
- The students will be trained on public speaking.
- Teacher will give demonstrations on public speaking.
- Topics of speech will be selected by the students discussing with teacher.

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96	Remote Sensing, GIS and GPS	SEC0209603	3	40-60

Course Name: Remote Sensing, GIS and GPS
Paper Code: SEC0209603
Total Credit: 3
Total Marks: 100
(Theory: 60; Practical: 40)

Course objectives

- This paper intends to introduce students to the interface of Remote Sensing and GIS & GPS.
- It seeks to develop new insights among students on the relevance of geospatial studies within the field of geography.
- It provide students a solid foundation in spatial data analysis and geospatial technologies in various fields such as environmental science, urban planning, natural resource management, and geospatial technology industries.

Course outcomes

- The paper remains useful for students in developing knowledge and skills in spatial data analysis if they wish to pursue higher study
- The paper will equip students with the knowledge, skills, and practical experience necessary to work effectively in fields that utilize remote sensing, GIS, and GPS technologies.
- The paper will be useful for students preparing for different competitive exams.

Part I: Theory
Credit: 2 (60 Marks)
(30 classes of 1 hour duration each)

Unit 1: Fundamentals of Remote Sensing (30 Marks)

1. Introduction to Remote Sensing: Definition and History of Development of Remote Sensing with special reference to India. (3 classes)
2. Principles of Remote Sensing System: Energy sources, Electromagnetic radiation (EMR) and its interaction with Atmosphere and Earth Features; (3 classes)
3. Remote Sensing Platforms, Sensors and Resolutions. (3 classes)
4. Image Interpretation Technique: Visual & Digital Image Interpretation, Key elements of Visual Image Interpretation, Digital Image Processing: Image Enhancement and Image Classification (Supervised and Un-supervised). (4 classes)
5. Application of Remote Sensing: Land, Vegetation and Water (3 classes)

Unit 2: Fundamentals of Geographical Information System (GIS) (20 Marks)

1. Introduction to Geographical Information System (GIS): Definition, Development, Components and Functions; Open source GIS. (4 classes)
2. GIS Data Types & Structures: Spatial and Non-Spatial Data; Raster and Vector Data Structure. (3 classes)
3. Application of GIS in geographical studies (Land use/Land cover analysis, Forest Conservation, Wildlife Management & Flood inundation analysis). (3 classes)

Unit 3: Fundamentals of Global Positioning System (GPS) (10 Marks)

1. Global Positioning System (GPS): Definition and history of development, component of GPS, basic principles and functions; Different Navigational Systems. (2 classes)
2. Application of GPS in surveying and mapping. (2 classes)

Part II: Practical

Credit: 1 (40 Marks)
(15 classes of 1 hour duration each)

Unit I: Practical Works (30 Marks)

1. Visual Interpretation of Aerial photograph and Satellite Imagery and preparation of thematic maps based on appropriate classification scheme. 2 assignments
2. Analysis of satellite image: Digital classification of satellite image: supervised and unsupervised. 2 assignments
3. Geo-referencing and Data layer creation: Map scanning, geometric correction, digitization of different layers using point, line and polygon, attribute data input and their thematic representation, Buffer creation, Overlay analysis. 3 Assignments
4. GPS data collection, plotting and mapping of various features within college campus. 2 Assignments

Unit II: Practical Note-Book and Viva-voce (10 Marks)

1. Evaluation of Practical Note-Book.
2. Viva-voce.

Reading List:

1. Campbell J. B., 2007: Introduction to Remote Sensing, Guildford Press.
2. Jensen J. R., 2004: Introductory Digital Image Processing: A Remote Sensing Perspective, Prentice Hall
3. Joseph, G. 2005: Fundamentals of Remote Sensing, United Press India.
4. Lillesand T. M., Kiefer R. W. and Chipman J. W., 2004: Remote Sensing and Image Interpretation, Wiley. (Wiley Student Edition).
5. Nag P. and Kudra, M., 1998: Digital Remote Sensing, Concept, New Delhi.
6. Rees W. G., 2001: Physical Principles of Remote Sensing, Cambridge University Press.
7. Singh R. B. and Murai S., 1998: Space-informatics for Sustainable Development, Oxford and IBH Pub.
8. Wolf P. R. and Dewitt B. A., 2000: Elements of Photogrammetry: With Applications in GIS, McGraw-Hill.
9. Sarkar, A. (2015): Practical Geography: A Systematic Approach. Orient Black Swan Private Ltd., New Delhi.
10. Chauniyal, D.D. (2010): SudurSamvedanevamBhogolikSuchanaPranali, ShardaPustak Bhawan, Allahabad.
11. Burrough, P.A. and McDonnel, R.A.,1998: Principles of Geographical InformationSystems, Oxford University Press.

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Research and Technical Writing

Credits: 3 (Theory: 2, Lab: 1)

Theory: 20 Lectures

This aim of the course is to make the students aware about importance of research and technical writing. This course provides students with an introduction to technical writing, graphing and data analysis, and computer presentation with LaTex, Origin and Microsoft excel.

Course Outcome: On successful completion of the course students will be able to identify and write different parts of technical reports, write article, thesis, and presentation in latex, create chart in Microsoft excel, use different format of chart based on need, plot data from different sources using Origin plot.

Theory

Introduction (Lectures 4)

Structure and components of scientific reports - Types of report – Technical reports and thesis– Different steps in the preparation – Layout – Illustrations and tables - Bibliography, referencing and footnotes. Need of scientific word processor, examples of scientific word processors.

Unit II: Technical Writing in LaTex (Lectures 12)

Introduction to LaTeX, advantages of using LaTex, TeX/LaTeX word processor, preparing a basic LaTeX file, Document classes, Preparing an input file for LaTeX, Compiling LaTeX File, LaTeX tags for creating different environments, Defining LaTeX commands and environments, Changing the type style, Symbols from other languages. Equation representation: Formulae and equations, Figures and other floating bodies, Lining in columns- Tabbing and tabular environment, Generating table of contents, bibliography and citation, Making an index and glossary, List making environments, Fonts, Picture environment and colors, errors. Applications of LaTex in article, thesis, slide preparation.

Unit III: Scientific graphing and data analysis (Lectures 14)

Creating chart in Microsoft excel, Types of chart- Column chart, line chart, Pie chart, Doughnut chart, bar chart, area chart, scatter chart, surface chart; Chart elements- Chart style, Chart filter, fine tune of chart; Chart design tools- Design and format.

The Origin Workspace, Multi-sheet Workbooks, Managing Data and Metadata, Importing

Data from different sources, Working with Excel and Origin, Basic Data Manipulation, Creating and Customizing Graphs, Custom Graph Templates and Themes, Publishing Graphs, Basic Data Analysis, Customizing Data Import, Post Processing of Imported Data, Creating and Customizing Multi-layer Graphs, Data Exploration and Pre-selection, Advanced Nonlinear Fitting, including Creating Custom Fitting Functions, Analysis Themes, Customizing Reports and Creating Custom Tables in Graphs, Recalculating/Updating Results, Analysis Templates and Custom Reports, Peaks and Baseline

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99	SANSKRIT GRAMMAR and TRANSLATION	SEC0209903	3	40-60

Sanskrit Grammar and Translation

Marks-75 **Total Credit: 3**

Total Credit :03 **No. of Theory Class: 30** **No. of. Practical Class -15**

Unit No.	Unit Content	Credit	No of Class.	Marks
I	**Parameters of Sanskrit Grammar**	1	15	25
	➢ **Phonology, Morphology, Syntax And Semantics**		07	10
	➢ **An Introduction to the Astadhyayi, Mugdhabodha and Ratnamala**		08	15
II	**Basics of Translation and Its Importance**	1	15	25
	➢ **Translation,: Its Purpose and Theories**		07	15
	➢ **The Tradition of Translation of Assam: Madhav Kandali, Mahapurusha Shankaradeva and Madhavadeva Rama Sarasvati, Krishna Kanta Handiqui**		08	10
III	**Practical**	1	15	25
	➢ **First Ten Sutras of the Astadhyayi: Memorisation, Basic Linguistic Dimensions, Basic Grammatical Techniques, viz., Sutra, Vriddhi, Guna, Pratyahara, Anuvritti and its Kinds, Lopa and Matra.**		10	15

- **Translation from Sanskrit to English/Assamese 02 5**
- **Translation from English/Assamese to Sanskrit 03 5**

Readings List

1. **Paninian Tradition of Grammar and Linguistics, Rama Nath Sharma, D.K. Printworld Pvt Ltd,2017**
2. **The Astadhyayi of Panini, Trans, Srisa Chandra Vasu, Vol.I, Motilal Banarsidass, Delhi**
3. **Sarvadarsanasamgraha, Assamese Translation , Rajendra Nath Sarma, Guwahati**
4. **Recent Research in Paninian Studies, George Cardona, Motilal Banarsidass, Delhi**
5. **Sanskrit Language, Grammar and Meaning, Karuna Sindhu das, Sanskrit Pustak Bhandar.**
6. **Mugdhabodhavyakarana, Asiatic society of Bengal,1913**
7. **Ratnamalavyakarana, Assam Sanskrit Board**
8. **Translation Studies: Theories and Applications(ed), Sunil Sawant, Atlantic Publishers and Distributors (p) Ltd.**
9. **A Handbook of Translation Studies, Bijay Kumar Das, Atlantic Publishers and Distributors (p) Ltd.**

Graduate Attributes : Disciplinary Knowledge about Sanskrit Grammar and Translation, Inclination to Indian Knowledge System, Knowledge of Linguistic Parameters , Importance of Paninian Grammar.

Course Objectives : a. Students will acquire the Basic Knowledge of Sanskrit Grammar .
b. Students will study the Four Principal Parameters of Linguistics.
c. Students will achieve the Conceptual Ideas Reflected in the First Ten Sutras of the Astadhyayi.
d. Students will get the outlines of the Translation Tradition of Assam.

Learning Outcome : After going through this unit students will be able ...

a. **to appreciate the Value of Panini's Grammar.**
b. **to gain knowledge about the Relation between Grammar and Linguistics w.r.t. Sanskrit Grammar.**
c. **to appreciate Indian Knowledge System in Connection with the Development of Sanskrit Grammar**
d. **to acquire the knowledge of Some of the Important Translation Theories.**
e. **to attend to the Important Grammatical and Linguistic Concepts Reflected through First Ten Sutras of Panini**

------Course Designer : Chairperson, UGCCS, Dept of Sanskrit, Gauhati University
Name . Prof. Sudeshna Bhattacharjya, HOD, Sanskrit, Gauhati University

Email ID: sbmgu2010@gmail.com

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100	**Science Communication**	**SEC0210003**	**3**	**40-60**

Science Communication

Unit 1 – Basic understanding of science and technology communication, need and significance of science communication, historical background, inculcating scientific temperament, science popularisation, Role of media in creating scientific temper in society, Knowledge about scientific experiments in the country: SITE Experiment, Kheda Project, Chambal Project, India's Nuclear Journey, MOM etc. Scientific organisations in India

Unit 2 –Public Understanding of Science, Science in print media, electronic media, social media, science and entertainment, Science in politics and policies, Museum as a tool of science communication, science communication and indigenous knowledge system
Important tenants of science writing, translation in science communication. Science through traditional folk media, science reporting, Qualities of science communicator

Unit 3 – Practical

Student should Publish articles on science related issues at any media outlets (webpages, newspapers, magazines or blogs).
Interviews with scientists and indigenous scientific knowledge experts, additional marks can be allotted for attending seminars /workshops on science communication related matters.

Further Readings:

i. Dawking, Richard. Modern Science Writing; Oxford University Press
ii. Bucchi, Massimiamo .Science & The Media; London & New York
iii. Berger, RoloffSwoldsen . Handbook of Communication Science; Sage Publications
IV. Bijnan Lekhokor Haat Puthi, Edited by Dr. Dinesh Chandra Goswami, Assam Book Hives
v. Indian Science News Association , Communicating Science; Indian Science News Association,Kolkata

vi. Dutta, Ankuran& Ray, Anamika . Science Communication in Assam. DVS Publishers

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101	**SERICULTURE AND ITS PROSPECTS**	**SEC0210103**	**3**	**40-60**

SERICULTURE AND ITS PROSPECTS

(Total: 3 credits)

THEORY **CREDITS: 2**

UNIT-I: AN INTRODUCTION TO SERICULTURE **5**

Mulberry/Non-Mulberry: Origin/History and distribution, Varieties of silk, Types of silkworms, Propagation: Cutting – Layering of host plant.

UNIT- II: BIOLOGY OFSILK WORMS **6**

Life cycle of Mulberry, Eri, Muga and Tasar silk worm, Structure of Silk gland and nature of silk.

UNIT- III: REARING HOUSE AND APPLIANCES **4**

Environmental condition for silk worm rearing, Rearing technology, Brushing, Feeding, Mounting, Mountages, Harvesting and storage of cocoons, Spinning and reeling of silk.

UNIT- IV: GRAINAGE TECHNOLOGY **3**

Silk worm seed production, Reproduction and commercial seed, Egg laying, Mother moth examination.

UNIT- V: PESTS AND DISEASES OF SILK WORM **2**

Pests of silk worm, Diseases of silk worm: Viral, Bacterial, Fungal, Protozoan, Prevention and control measures.

UNIT- IV: ENTREPRENEURSHIP IN SERICULTURE **2**

Marketing and Economic status of Sericulture, Future prospects.

UNIT III: PRACTICAL SYLLABUS **CREDIT: 1**

1. Identification of various larvalstages of different silkworms.

2. Identification of diseased and disease-free silkworms.

3. Visit to various Sericulture research stations/Govt./Private farms and report submission.

BOOKS AND SUGGESTED READINGS

1. Tembhare. D.B. (1997), Modern Entomology, Himalaya Publishing House.

2. Shukla. G. S & Upadhyay. V. B. (2007) Economic Zoology, Rastogi Publications.

3. Chowdhury, S. N. (1981) Muga Silk Industry, Directorate of Sericulture, Govt of Assam, Guwahati, Assam.

4. Chowdhury, S. N. (1982) Eri Silk Industry, Directorate of Sericulture, Govt of Assam, Guwahati, Assam.

5. Chowdhury, S. N. (1982) Silk and Sericulture, Directorate of Sericulture, Govt of Assam, Guwahati, Assam.

OBJECTIVES OF THE COURSE

1. To develop interest in the field of Sericulture among the students.

2. To motivate students for scientific study in the field of Agro-based Industry by performing simple projects and field visits.

3. To develop skills and interest in entrepreneurship in Sericulture.

4. To help the students to learn means of self-employment and income generation.

5. To cultivate studentsawareness and appreciation for Sericulture as a hobby and science.

COURSE OUTCOME

1. Students study the morphology and types of silkworm.

2. Students can identify the pests and diseases of silkworms.

3. Students can start up their entrepreneurship in the field of Sericulture.

4. Students can generate their own income commercially.

5. Students get the knowledge about the rearing and disinfectant techniques for sustainable growth.

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SEMESTER:2 (GU-FYUGP)

SOFT SKILL-2

CREDIT : 3

MARKS :

THEORY: 45 **INTERNAL:25** **PRACTICAL :30**

Syllabus for Soft Skill & Personality Development

Program Outcome

Soft skills are essential to maintain interpersonal relationships and move upward in the hierarchy of any organization. The best soft skills include critical thinking ability, problem-solving strategies, creativity, emotional quotient, and attitude toward other co-workers.

The importance of soft skills in any organization is often underestimated. But they are essential to sharpen hard skills. It creates an inspirational environment and encourages co-workers to improve their interpersonal skills.

Importance of Soft Skills

1. Increase your self-confidence
2. Improve your workplace productivity
3. Career progression and promotion
4. The modern workplace is interpersonal
5. The future workplace will rely on soft skills
6. Build professional relationships
7. Soft skills are hard to automate
8. Soft skills are in optimum demand by recruiters
9. Complement your hard skills

UNIT:

1 Teambuilding

Introduction, Importance of human relations, What is a team? Understanding behaviour Comfort zones, Stepping stones to assertiveness, Getting to win/win, Assertiveness building blocks, Characteristics of high performance teams, Self-questionnaire

2 Leadership

Introduction, Meaning of leadership, Importance of leadership, Leadership relationship, Approaches to leadership, Task, team and individual functions, Functions and responsibilities of leadership, Styles of leadership

3 Time management

Introduction, How do you manage time?

4 Presentation skills
Introduction, Process**,** Examples of presentation language

5 Managing stress
Introduction, What is stress, Recognizing stress, Acknowledging stress, Common signs of stress, Tackling the problem

6 Basic Grammars
Tenses, Prepositions, Pronunciation , Letter Writing

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103	Spoken Arabic-2	SEC0210303	3	40-60

SPOKEN ARABIC-II

Prepared according to the Syllabi of Skill Courses for2nd Semester of Four-Year Undergraduate Programme (FYUGP) of Gauhati University under NEP

Total Credits=3
Total Marks=100
Theory=50, Internal=20, Practical=30

UNIT-I: Basic Arabic Grammar

Pronouns, Possessive, Basic Structure of Sentence, Verbal Sentence, Nominal Sentence, Subject and Predicate

UNIT-II: Development of Reading and Writing Skill

Formation of Words, Reading Comprehension, Writing Practice

UNIT-III: Vocabulary Enrichment

Domestic Animal, Birds, Electrical Appliances, Shapes, Colours, Household articles, Kitchen Utensils, Means of Transportation, Outdoor Games, Indoor Games

UNIT-IV: Conversation Practices

Conversation at home, Conversation over phone, Conversation at Classroom/ School, Conversation at Market, Conversation at office

Course Objective:

To enable a student construct grammatically correct sentences in Arabic by following grammatical rules.

Learning outcomes:

To familiarize the students with the distinctive features and purposes of various Arabic structures.

To comprehend Arabic grammar through practice.

The course will acquaint the students the students with the morphological thought of learning Arabic grammar.

The Course will assist the students in learning correct use of written Arabic applying fundamental morphological and syntactic elements of Arabic.

References:

1. Arabic for Beginners by S. Ali
2. Teach yourself Arabic by Prof. S. A. Rahman
3. Let's Speak Arabic By Prof. S. A. Rahman
4. Arabic Made Easy by Abul Hashim
5. The Essential Arabic by Prof. Rafiul Imad Fynan
6. A Practical Approach to Arabic Language Vol. 1 by Dr. Ali Akhtar Nadwi
7. A New Arabic Grammar of the written Language by J. A. Haywood and H. M

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104	Sports Technology	SEC0210403	3	40-60

SPORTS TECHNOLOGY
Paper Code: SEC0210403

Total Credit: 03(Theory Credit-2; Practical Credit-1)

Total Marks: 75

(Theory=30, Practical=25, Internal=20)

Course Objectives:

1)This course will give knowledge about the latest equipments and gadgets used in sports.

2)The students will acquaint with latest trends in sports technology.

Course Outcome (Graduate Attributes):

At the end of the course, the students shall be able to

- identify the latest equipments and gadgets used in sports
- collect, analyze and interpret data related to athlete performance.
- develop the leadership quality, team work and life long learning.

Unit 1: Introduction to Sports Technology

a. Role of Technology in Sports and its advancement; Sports Technology- meaning, definition and its advantages; Purpose and applications of sports technology in different sports.

Unit 2: **Instrumentation technology**

a. Definition of Instrumentation, Types of instrumentation in Sports, Sensor selection and application, Placement of sensors. Hawk eye Technology in Sports. Use of computer and software in human motion detection

Unit 3: **Sports Surfaces and Training Gadgets**

a. Characteristics of Sports Surfaces, Specific Sports Surfaces for playfields, construction and installation of sports surfaces.

b. Mechanism and Advantages of Cricket Bowling Machine, Tennis Serving

Machine and Volleyball Serving Machine

PRACTICAL: (25 marks)

1.Prepare a Practical file of collecting heart rate before and after workout .

2. Identification of Equipments

3.Viva

Note: Students should be encouraged to visit sports technology factory / sports goods manufacturers

Recommended Books:

1. Franz K. F. et. al., Editor, Routledge Handbook of Sports Technology and Engineering (Routledge, 2013)
2. Steve Hake, Editor, The Engineering of Sport (CRC Press, 1996)
3. Dixon, Sharon. The science and engineering of sport surfaces. Routledge, 2015.
4. Franz K. F. et. al., EditorThe Impact of Technology on Sports II (CRC Press, 2007)
5. John Mongilo, (2001), "Nano Technology 101 "New York: Green wood publishing group.
6. Magdalinski, Tara. Sport, technology and the body: The nature of Performance. Routledge, 2009.

Course Designer: Syeda Samina Razin, Assistant Professor, B.Voc. Department of Physical Education,Dr. B.K.B. College,Puranigudam.

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105	Statistical Techniques for Research Methods	SEC0210503	3	40-60

Statistical Techniques for Research Methods

Skill Enhancement Course

Credit: 3

Course Objective: This course is designed to make the students familiar with basic statistical tools and techniques used in Social Science Research.

Course Outcome: After completion of the course the students are expected to develop an understanding of the fundamental concepts of descriptive statistics.

Content	Marks/ Classes
Unit 1:Overview of Statistics: Population and Sample What is Statistics? Why study Statistics? Variables and types of Variables, Different measurement scales	08/08
Unit 2:Measures of Central Tendency: Mean, Median, Mode Comparison of Mean, Median and Mode	15/12
Unit 3: Measures of Dispersion: Range, Quartile Deviation, Mean Deviation, Standard Deviation, Lorenz Curve	20/15
Unit 4: Measures of Relationship: Covariance Karl Pearson's Coefficient of Correlation, Rank Correlation, Regression Analysis	20/10
Unit 5: Assignment/ Project Work	12

Recommended Books:

- C.A. Hesse, & J.B. Ofosu, Statistical Methods for the Social Sciences, Akrong publications Limited.
- Kaberi Saha, Statistical Analysis in Social Science, Mani Manik Prakash
- Ram Ahuja, Research Methods, Rawat Publications.
- S.P.Gupta, Statistical Method, S.Chand & Sons

Course Designers:

1. Dr. Deepika Das
   HOD, Department of Economics Chhaygaon College,
   Chhaygaon
   Contact No: 8011108595, E-mail: deepikapp30@gmail.com
3. Mrs. Mousumi Das Assistant Professor

Chhaygaon College, Chhaygaon
Contact No: 7896178672, E-mail: mousumibhu5@gmail.com

Syllabus-2

Title: Statistical Techniques for Research Methods

Total Class: 60 **Total Credit:** 03 (Theory: 02; Lab: 01)

Target Group: Students from all disciplines of Semester-II

Learning Objective: This course is designed to provide students with the knowledge of representation and analysis of data of data with the help of various statistical tools. This paper will form a base for future research work of students irrespective of subject and discipline.

Learning outcomes:

After studying this course students will

- understand the basic concepts and presentation of data.
- have the concepts of different characteristics of a data set like, Average, Standard Deviation, Coefficient of Variation, Quartiles.
- be able to perform t-test, z- test and chi-square tests wherever necessary for a data set.
- be able to draw statistical inference and interpret the result in an applied context.

Theory:

Unit -1:(04 classes)

Classification and Presentation of data:

Concept of data, classification and tabulation of data; Graphical and diagrammatic representation of data- Pie chart; Box plot; Stem and leaf plot; Frequency polygon; Histogram; Ogive with graphical summaries of data.

Unit-2:(08 classes)

Descriptive Statistics:

Concept of measures of central tendency; measures of dispersion**.** Bivariate data: Definition, scatter diagram, simple correlation and linear regression.

Unit-3:(06 classes)

Probability and Distributions:

Idea of probability, laws of probability, Random variable. Idea of important distributions viz. Binomial, Poisson and Normal distributions.

Unit – 4:(12 classes)

Testing of Hypothesis:

Concept of Population, Sample, sampling distribution**,** standard error, type I and type of II error, level of significance. Test of significance: test for small sample, test for large sample, t- test, Z- test and Chi-square test using both classical and p-value method. Confidence interval (for normal distribution).

Lab: (30 classes):

1. Diagrammatic and Graphical representation of data.
2. Problem based on measures of central tendency and Dispersion
3. Correlation coefficient and lines of regression for bivariate data.
4. Problems related to t-test, Z- test and Chi-square test.

Suggested Readings:

1. Gupta S C., Kapoor V K.; Fundamentals of Mathematical Statistics, Sultan Chand and Sons.
2. Bhattacharjee D. and Bhattacharjee D.; B. Sc. Statistics Theory and Practical, Kalyani Publishers
3. Gupta S., Statistical Methods, Sultan Chand and Sons.

--Submitted by: Department of Statistics, L.C.B. College

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Syllabus-3

NAME OF SKILL COURSE: STATISTICAL TECHNIQUES FOR RESEARCH METHODS

Paper Code: SEC0210503

Credit: 3 (Theory: 2 and Practical: 1)

Total Marks: 75

Course Description:

Statistical tools and techniques are one of the basic necessities for analytical research works. This course is designed to teach the students about different statistical tools used in analytical research studies and its importance in answering different real world economic problems. Students will learn how to deal with different statistical techniques and tools, which are appropriate in which situation, interpretation of the results extracted from those techniques, etc.

Course Objective:

The course is developed and designed in such a way that the students can get the knowledge about 'Data Analysis in Research Works' as a future carrier option for them. They can practice their role as Data Analytics, Field Investigator, Research Associate, Research Assistant, etc. in near future.

Graduate Attributes:

1. This course helps students in understanding use of data in research, processes involved in collection of data, presentation and summarization of data using computer softwares like MS-Excel, SPSS, etc.
2. Students will learn theoretical knowledge and be involved practically in preparation of questionnaires/interview schedules, collection of both primary and secondary data and its presentation.
3. Students will learn about theoretical knowledge on different types of Statistical Tools used to analyse data for drawing statistical inferences and practical knowledge about data analysis using different statistical software packages (like – SPSS, STATA, etc.).
4. Students will also gather a practical knowledge about preparation of a report on collected data.
5. To prepare the students for the 4^{th} Year Honours Program (in Research) under FYUGP and to encourage them to research in higher level of studies.

Distribution of Marks:

1. **End Semester Examination:** **Total Marks: 30**
2. **Sessional Examination:** **Total Marks: 20**
3. **Practical:** **Total Marks: 25**

End Semester and Sessional Examination will be held following the academic calendar of the university covering the syllabus of the course and both will be theory papers in nature. The questions will be set following the guidelines of the university in both the examinations.

Each candidate is required to complete and submit a project work as Practical based on a self-designed interview schedule/questionnaire and collected data to be evaluated via Project Report and Seminar Presentation. (Project Report – 20 and Presentation – 05, Total – 25)

Course Content:

Unit I:

Meaning and Significance of Research, Analytical Research, Use and Importance of Data in Research, Types of Data and its Collection Methods (Census and Different Sampling Methods), Questionnaire and Interview Schedule.

Unit II:

Data Entry in Software like MS-Excel, STATA, etc., Creating Charts/Tables and Diagrams in MS-Excel/STATA – bar, line, pie, scatter, radar, bubble diagrams, etc.

Unit II:

Measures of Central Tendency and Dispersion (Mean: Arithmetic Mean, Geometric Mean and Harmonic Mean; Median; Mode; Range, Mean Deviation, Quartile Deviations and Standard Deviation), Correlation (Pearson Correlation Co-efficient and Spearman's Rank Correlation Co-efficient).

Unit IV:

Regression Analysis, Ordinary Least Squares Method, Measurement of different Statistics/Parameters of a Dataset in Software like MS-Excel, STATA, etc.

Reading List:

1. Dr. S.P. Gupta, Statistical Methods, Sultan Chand & Sons.
2. S.C. Gupta and V.K. Kapoor, Fundamentals of Mathematical Statistics, Sultan Chand & Sons.

3. Webtech Solutions Inc., Mastering Microsoft Excel Functions and Formulas.
4. P.H. Karmel and M. Polasek (1978), Applied Statistics for Economists, 4th edition, Pitman.
5. Damodar N. Gujarati and Sangeetha, Basic Econometrics, Tata McGrow-Hill Education Private Limited.
6. Damodar Gujarati, Econometrics by Example, Palgrave Macmillan

Syllabus preparaed and submitted by:

Dr. Abinash Bharali
Assistant Professor, Department of Economics
Dr. B.K.B. College, Puranigudam

106	Statistical Techniques in Geography	SEC0210603	3	40-60

SUB: Statistical Techniques in Geography
MAHATMA GANDHI COLLEGE, CHALANTAPARA
Full Mark: 75 (Theory-= 50+ Practical = 25)

Part- I (Theory)

Unit-I
Need of Statistic in Geographical studies, Geographical data- Nature and sources, method of data collection, Data processing, frequency polygon, frequency curve, Histogram and Ogive. 15 mark

Unit-II
Measures of Central Tendency- mean, median and mode both group and ungroup data. Measures of Dispersion- Range, Quartile Deviation, Mean deviation and Standard Deviation.
15 Mark

Unit-III
Concept of Sampling, types of samplings and its application in geographical studies. 10 Mark

Unit-IV
Correlation and its uses in geographical studies.
10 Mark

Part-II (Practical)

Unit-I
Graphical Representation: Histogram, Frequency Polygon, Frequency Curve and Ogive. 10 Mark

Unit-II

Graphical/General representation: Line graph; Simple and Complex, Bar graph ; complex and compound, Pie-chart and flow diagram.
10 Mark

Unit-III
Practical Note Book and Viva voce
05 Marks

--By Forhad Ali (HOD) Triluchan Mandal, Asstt. Professor Dept. of Geography

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110	**Techniques in Social Research**	**SEC0211003**	**3**	**40-60**

Techniques in Social Research

Credit 3
Total Marks 75
Marks distribution: Theory 30, Internal Assessment 20, Practical 25

COURSE OBJECTIVE:
To impart knowledge on research design formulation, methods and techniques of data collection and ethics of research.

COURSE LEARNING OUTCOME:
• The knowledge on formulation of research design, application of methods and techniques in data collection will be obtained.
• The ethics of research will be understood for an effective research study.

Course Content:

Theory (Credit 2, Total Marks 30, Total Class 12)

Unit 1: Research Design

Formulation of research problem, formulation of hypothesis , qualitative and quantitative data.

Unit 2: Techniques of data collection

Survey methods (schedule method, questionnaire method), observation method, interview method, case study method, genealogy method , focus group discussion method, life history method, oral history method, selection of informants and key informants.

Unit 3: Types of data and sampling methods

Primary and secondary data, their uses, analysis and comparison. Qualitative and quantitative data. Sampling methods (random sampling, snowball sampling, systematic sampling, stratified sampling).

Unit 4: Analysis and report writing

Chapterization, preface, epilogue, prologue, index, bibliography, appendix, glossary.

Practical (Credit 1, Total Marks 25, Total Class 6)

Unit 1:

Students have to collect and compile demographic data either from primary data or from different secondary sources on any given topic selected by the concerned teacher and a project report will have to be submitted for evaluation.

Suggested Readings:

1. D. K. Lal Das, Design of Social Research. Rawat Publication.

2. David de Vaus, Research Design in Social Research. University of Queensland, Australia.

3. Dr. Nagen Saikia, Gavesana Paddhati Paricay (Assamese). Kaustubh Publication, Millan Nagar, Dibrugarh - 3.

4. Gideon Sjoberg and Roger Nett, A Methodology for Social Research. Rawat Publication.

5. Mahendra Bora, Gavesana Pranalitatva (Assamese). Banalata, Guwahati - 1.

6. Paul K Hall and William J Goode, Methods in Social Research. Surjeet Publications.

7. Shridhar Patil and Aditya, Research Methodology in Social Sciences. New India Publishing Agency, Nipa.

8. Rajat Acharyya and Nandan Bhattacharya, Research Methodology for Social Sciences. Routledge India.

Particulars of Course Designer: Department of Anthropology, Madhab Choudhury College, Barpeta.

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112	**Textile Processing**	**SEC0211203**	**3**	**40-60**

SEC Paper,2nd Semester
Textile Processing

Credit 3 (1+2) **Theory 1, Practical 2**

Theory:

Unit 1 Dyeing: Classification of dyes, Principles of colour fastness.

Unit 2 Printing: Methods of printing, Block printing, Flat and roller printing, Stencil, Screen (Flat and rotary) Printing - Transfer printing - Innovative printing methods, digital printing etc.

Styles of printing: Direct, Discharge, Resist

Fixation of Prints: ageing, steaming, baking, wet development, Washing of printed goods

Practical:

1. Dyeing: On cotton using direct, reactive, vat dyes. On Wool and silk using acid and basic dyes
2. Printing: with blocks, screen and stencils. Direct, Discharge, Resist and Stencil printing
3. Colour fastness of dyed fabrics: Wash fastness, Perspiration fastness.

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113	**Translation : Principles & Practice**	**SEC0211303**	**3**	**40-60**

Translation: Principles & Practice

Title: Translation: A Detailed Perspective
Target Group: Open for all (Arts, Science and Commerce)
Theory= 2 credit, Practical= 1 credit

Learning Objectives:

The objectives of the course are:

(i) To develop practical and technical knowledge of Translation
(ii) To develop Professional skill of the students
(iii) To impart the knowledge of language, literature and culture of different languages.

Course outcomes:

(i) All aspects of written communication, accuracy, readability and flow to a high level of expertise will develop in Assamese, Bengali and Hindi language.
(ii) Technical and ethical skills and knowledge of translation will enhance.
(iii) Knowledge in different languages, literary work and culture will enhance.
(iv) Skills in Assamese, Bengali, English and Hindi will develop.

Unit wise Syllabus

Theory

Unit-I (5 hours)

Translation: Elements and Use
Meaning and definition of translation, Translation: Science or Arts, History of Translation

Unit-II (4 hours)

Problems and Prospects of Translation
Problems related with source text and target text, Qualities of Translator

Unit-III (4 hours)

Types of Translation
Translation on the basis of prose and poetry,Translation on the basis of literary genre,Translation on the basis of subject,Translation on the basis of nature of translation.

Unit-IV (4 hours)

Translation and literature

Process of Translation, Comparative literature and Translation

Unit-V (5 hours)

Employment and translation
Interpreter, translator, journalist, editor, news writer-translator, voice-over artist, dubbing artist, radio-jockey, instructor etc.

Practical (22 hours)

(i) **Translation of Prose**- Story, Essay, Novel (Hindi-English, Assamese-Hindi, Bengali-Assamese, vice-versa) (14 hours)

(ii) **Translation of Poetry** (Hindi-English, Assamese-Hindi, Bengali-Assamese, vice-versa) (8 hours)

References:

1. Anubad Adhyayan : Tatwa Aru Proyog – Madan Sarma
2. Anubad : Tatwa Aru Proyog – Dr. Nirajona Mahanta Bejbora
3. Anubador Kotha – Abdul Leich
4. Anubad Porikroma – Profulla kataki
5. Tulonamulak Sahitya aru anubad kala - Karabi Deka Hajorika
6. Anubad-Sudha , Part I– Dr. Achyut Sarma
7. Anubad-Sudha , Part II– Dr. Achyut Sarma
8. A Handbook of Translation Studies- Bijay Kr. Das
9. Anubad Biggyan : Bholanath Tiwari

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114	**Vermicomposting and Organic Farming**	**SEC0211403**	**3**	**40-60**

Vermicomposting and Organic Farming

-by Bhaben Tanti, GU

Credits: 3

Learning objectives:

- Understand the basics of vermicomposting by enabling students to identify suitable wastes for vermicompost production
- Develop interest in waste management
- Provide hands on training for vermicompost production in small and large scale basis.
- Develop an understanding of the identification of suitable earthworm species for vermicomposting
- Create awareness for promoting organic agriculture
- Help the students to learn a means of self-employment and income generation through small and medium scale entrepreneurship.

Learning outcomes:

On successful completion of the course, students will be able to:

- Identify opportunity in the discarded organic wastes
- Acquire knowledge of various earthworm species suitable for vermicomposting
- Construct and maintain small and large scale vermicomposting unit
- Learn the basic principles for drying, packaging, storage and transportation of vermicompost
- Understand the importance of organic agriculture and its relevance it the current scenario

THEORY

Unit 1: Introduction to Vermicomposting

Vermicomposting- Definition, meaning, history, scope, economic importance and significance of vermicompost in the maintenance of soil structure. Vermicomposting for organic waste management- types, characterization and management of solid organic wastes with special reference to four R's principles.

Unit 2: Vermicomposting Types and Methods

Types of vermicomposting- Bed method, pit method, tank method, roof shed method and bin method. Setting up Vermicomposting Unit- Basic Requirements and Maintenance, Preparation of vermicomposting bed, Small and large scale vermicomposting; Size and dimensions of the vermicomposting unit, Enemies of earthworms.

Unit 3: Earthworm Species for Vermicomposting

Criteria for selecting suitable earthworm species for vermicomposting, Ecological Categories of Earthworms, Local and Exotic species of earthworms frequently used in vermicomposting- *Eisenia fetida*, *Eudrilus eugeniae, Perionyx excavatus* and *Lampito mauritii*.

Unit 4: Principles of Vermicomposting

Phases of vermicomposting- Initial activation, thermophilic, mesophilic. Factors affecting vermicomposting process - pH, temperature, moisture content, Electrical Conductivity, Total organic carbon, nutrient budget, water holding capacity, exchangeable acidity and CO2 evaluation. Recent advances in vermitechnology; Greenhouse gas emission during vermicomposting; SWOC analysis of the vermicomposting process.

Unit 5: Vermicompost Harvesting and Applications

Techniques of harvesting vermicompost, vermiwash and earthworms. Maturity assessment of vermicompost: Biological indicators of maturity, C/N ratio, C/P ratio, Humification index, Heavy metals content. Post Harvest preservation and application strategies.

Unit 6: Organic Farming

Introduction- Basic concept, principles, history, scope, importance and relevance in Indian agriculture system; Component of organic farming, Green manuring and organic fertilizers. Organic insecticides and pesticides; Case studies and success stories; Advantages and disadvantages of organic farming. Recent development in organic farming with special reference to GMO.

PRACTICAL

1. Maintenance of earthworm culture for vermicomposting
2. Physico-Chemical characterization of vermicompost
3. Biological characterization of vermicompost
4. Spectroscopic characterization of vermicompost
5. Preparation of vermi tea, vermi-wash, organic insecticides and pesticides.
6. Organic farming strategies for economically important crops

Suggested Readings

1. Tripathi, Y. C., Hazaria, P., Kaushik, P. K., & Kumar, A. (2005). Vermitechnology and waste management. Verms and Vermitechnology, SB Nangia. APH Publishing Corp., New Delhi.

2. Edwards, C. A., & Lofty, J. R. (1977). Biology of Earthworms, Chapman and Hall. London, UK.

3. Lee, K. E. (1985). Earthworms: their ecology and relationships with soils and land use. Academic Press Inc. Sydney, Australia.

4. Munroe, G. (2007). Manual of on-farm vermicomposting and vermiculture. Organic Agriculture Centre of Canada.

5. Singh, K., Nath, G., Shukla, R. C., Bhartiya, D. K. (2014). A Textbook of Vermicompost: Vermiwash and Biopesticides. Astral International, New Delhi.

Syllabi 2

Skill Enhancement Course 5: Vermicompost Technology
(Offered by the Department of Zoology)
Total Credit =3(33 Hours)

Unit-I
General Vermiculture/ Vermicompost

1. Introduction to vermiculture. definition, meaning, history, economic important, their value in maintenance of soil structure, role as four r's of recycling reduce, reuse, recycle, restore.
2. Role in bio transformation of the residues generated by human activity and production of organic fertilizers.
3. The matter and humus cycle (product, qualities). Transformation process in organic matter.
4. Choosing the right worm. Useful species of earthworms. Local species of earthworms. Exotic species of earthworms.

Unit-II
Earthworm Biology and Rearing

1. Five Key to identify the species of earthworms.
2. Biology of *Eisenia fetida*

a) Taxonomy Anatomy, physiology and reproduction of Lumbricidae.
b) Vital cycle of *Eisenia fetida*: alimentation, fecundity, annual reproducer potential and limit factors (gases, diet, humidity, temperature, PH, light, and climatic factors).

3. Biology of *Eudrilus eugeniae*

a) Taxonomy Anatomy, physiology and reproduction of Eudrilidae.
b) Vital cycle of *Eudrilus eugeniae*: alimentation, fecundity, annual reproducer potential

Unit-III
Vermicompost Technology (Methods and Products)

1. Small Scale Earthworm farming for home gardens
2. Earthworm compost for home gardens
3. Conventional commercial composting
4. Earthworm Farming (Vermiculture), Extraction (harvest), vermicomposting harvest and processing.
5. Nutritional Composition of Vermicompost for plants, comparison with other fertilizers
6. Vermiwash collection, composition &use

Unit-IV
Applied vermiculture.

1. The working group experience with *E. fetida* populations comportment with farm industrial residues (frigorific, cow places, feed-lot, aviaries exploitations,
and solid urban residues).

Practical

1. Key to identify different types of earthworms
2. Field trip- Collection of native earthworms & their identification
3. Study of Sytematic position, habits, habitat & External characters of *Eisenia fetida*
4. Study of Life stages & development of Eisenia fetida
5. Study of Life stages & development of Eudrilus eugeniae

6 Comparison of morphology & life stages of *Eisenia fetida* & *Eudrilus eugeniae*
7. Study of Vermiculture, Vermiwash & Vermicompost equipments, devices
8. Preparation vermibeds, maintenance of vermicompost & climatic conditions.
9. Harvesting, packaging, transport and storage of Vermicompost and separation.
10. Study the effects of vermicompost & vermiwash on any two short duration crop plants.

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116	Visual Merchandiser	SEC0211603	3	40-60

Visual Merchandiser

Credit 3 **Total Marks: 100**
Theory classes :17 classes (one hour each-17 hrs) **Theory:50 marks**
Practical classes:16 classes (Two hours each-32 hrs) **Practical:50 Marks**

Practical classes will include : 12 hours of Retail Lab practical, 12 hours of presentation preparation, 6 hours of Group Discussion, 2 hours of assignment preparation

Course Description:

This course on"**VisualMerchandiser**"for undergraduate students buildsbasicallyon thesoftskills andcreativeskillsalreadypossessed bythestudentsapartfrom preparingthem foranentrylevel profession in theretailindustry.It aims to develop thetechnicalskillsrequiredforthejobapartfrom improvingtheir communication and problem-solvingskills.

Course Objective:

This course isaimedat trainingstudentsforthe job of"**VisualMerchandiser**", in the"Retail"Sector/Industryand bytheend ofthesemesteraims at buildingthejob specifickeycompetenciesamongst thelearners.

Specific Objectives:

The courseaims to enablestudents to–

- Understand thebasic concepts ofvisualmerchandising
- Understand thejob description and dutiesof"**VisualMerchandiser**"
- Understand thebasicsofstoreplanningand storelayout
- Understand thebasicsandimportanceofmerchandisepresentation,windowdisplays etc.
- Gives an idea ofvariousproblem-solvingskills related to theindustry
- Givean exposure tothe practicalaspectsoftheindustry
- Develop soft skills

CourseOutcome:

After thecompletionofthecourse, thestudents will beableto

- Understand thebasicsof visualmerchandising
- Know therequirements oftheprofessionof**VisualMerchandiser**
- Develop theskillsrequired for beingasuccessful**VisualMerchandiser**
- Communicatewith peoplewith confidence

CourseContent:

Unit1:IntroductiontoVisualMerchandising Marks:20

* Visual Merchandising: Definitionand Functions
* Elements ofImageMix
* DisplayBasics,ElementsofDisplay:Store Exteriors &Interiors
* Design Basics, PrinciplesofDesign,ColourBlockingconcept
* Signage- Definition, Types,Importance

Unit 2:StorePlanning&Fixtures Marks:10

* StorePlanning- Concept& Importance
* Fixtures: Definition, Types,PurposeofPlanningFixtures
* CirculationPlan:Definition, Rules, Types
* Planograms:Meaning,Importance, Implementation&Maintenance

Unit 3: MerchandisePresentation,WindowDisplays, andotherimportanttools Marks:10

* MerchandisePresentation:Meaning, Principles,Categories,
* Cross Merchandising:Objective,Strategy
* Window Displays:Meaning, Scope, Categories,
* DisplayCalendar, SalesTracking, Mannequins, Props,Lighting,

Unit4:IntroductiontoVisualMerchandiser Marks:10

Visual Merchandiser -Definition, Job Description, Duties

CourseContent:

Unit1:IntroductiontoVisualMerchandising Marks:20

* Visual Merchandising: Definitionand Functions
* Elements ofImageMix
* DisplayBasics,ElementsofDisplay:Store Exteriors &Interiors
* Design Basics, PrinciplesofDesign,ColourBlockingconcept
* Signage- Definition, Types,Importance

Unit 2:StorePlanning&Fixtures Marks:10

* StorePlanning- Concept& Importance
* Fixtures: Definition, Types,PurposeofPlanningFixtures
* CirculationPlan:Definition, Rules, Types
* Planograms:Meaning,Importance, Implementation&Maintenance

Unit 3: MerchandisePresentation,WindowDisplays, andotherimportanttools Marks:10

* MerchandisePresentation:Meaning, Principles,Categories,
* Cross Merchandising:Objective,Strategy
* Window Displays:Meaning, Scope, Categories,
* DisplayCalendar, SalesTracking, Mannequins, Props,Lighting,

Unit4:IntroductiontoVisualMerchandiser Marks:10

Visual Merchandiser -Definition, Job Description, Duties

Readerlist:

BhallaSwati,AnuraagS.,VisualMerchandisingPradhan,S.,RetailingManagement:Tex
tand Cases
QualificationPackofVisualMerchandiserprescribed byRASCI

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117	Web Designing	SEC0211703	3	40-60

Web Designing

1. Learning Outcomes:
After completing this course, students will know about fundamentals of Web Design Using HTML.
2. Prerequisites: NIL
3. Theory credit: 2
4. Practical credit: 1

5. No. of required classes:
   a. Number of contact classes: 51 (51 hours)
   b. Number of non-contact classes: NIL
6. List of books:
   a. Fundamentals of Web Development, 1e, by Randy Connolly, Ricardo Hoar / Pearson
   b. HTML & CSS: The Complete Reference by Thomas A. Powell, Tata-McGraw-Hill-Education

Other Resources:

   a. W3Schools Tutorials [https://www.w3schools.com/]

7. Particulars of course designer: (a) Name: Mr. Masud Alam Rofi
(b) E-mail id: masud.alam.rofi@gmail.com

8. Contents of Syllabus:

(a) Theory **17 hrs**

Unit I: Introduction **5 hrs**

Brief history of the Internet, How does the Internet work? Internet Protocol; HTTP; Domain Names; Domain Name Service servers(Introduction Only) ; HTTP Protocols; Difference between HTTP 1.0, HTTP 1.1, and HTTP 2.0; Methods – GET, POST, HEAD, PUT, DELETE.; Status codes; Architecture of the Web – Server-Client Model; Front-End, Back-End, Web Designer-Definition and Role, Web servers – IIS, Apache Server (Introduction Only).

Unit-II: Introduction to HTML **12 hrs**

Introduction to HTML5, Introduction to basic HTML Tags : Alignment, Headings, Anchor, Paragraph, Image, Lists, Tables, Nesting of HTML Tags, HTML5 : New features in HTML5, New elements, new attributes, link relations, microdata, ARIA accessibility, objects, events, and Canvas tags, HTML5 Validation, Audio & Video Support, Geo-location Support, HTML Forms & Controls : Input, Text Area, Radio Button, Checkbox, Dropdown, Submit, Reset, Button, etc. Introduction to Document Object Model-DOM (Introduction Only)

(b) Practical (At least 17 assignments have to be done) 34 hrs

1. Create a HTML document consisting of HTML heading, paragraphs and images.
2. Create a HTML document and insert comments in the HTML source code and insert horizontal lines.
3. Construct HTML document to set the font of a text, size of the font, style of the font.
4. Create a HTML document to show how to create hyperlinks.
5. Create a HTML document to use an image as a link.
6. Create a HTML document to open link in a new browser window.
7. Create a HTML document to jump to another part of a document (on the same page).
8. Create a HTML document to insert images from another folder or another server.
9. Create a HTML document with all table elements (Table, Caption, Table Row, Table Data element, Table Heading Element, THEAD, TFOOT, TBODY)

10. Create HTML document to make an unordered list, an ordered list, different types of ordered lists, different types of unordered lists, Nested list, Definition list.
11. Create HTML form with the all FORM elements (text fields, password field, Checkboxes, Radio buttons, Select elements, Drop-down list with a pre-selected value, Textarea (a multiline text input field) and buttons.
12. Create HTML document with all Frame elements (FRAMESET, FRAME, NOFRAMES, and INLINE FRAME).
13. Create a HTML document to add AUDIO and VIDEO.
14. Create a HTML document to aligning images (Let the image float to the left/right of a paragraph)
15. Create a HTML document to jump to a specified section within a frame

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118	**Wildlife photography and Ecotourism**	**SEC0211803**	**3**	**40-60**

Course Title: Wildlife photography and Ecotourism

Subject: Travel & Tourism management

Unit 1: Wildlife photography

- Introduction,definition and types
- Understanding Digital cameras
- Basic camera settings
- Tips and tricks in wildlife photography

Unit 2: Ecotourism

- Introduction, definition, types and functions
- Ecotourism resources in Assam
- Ecotourism and development
- Entrepreneurship development

Practical: Field visit to a National park or wildlife sanctuary / Ecotourism site.

Referred book:

- Bhatia, A. K., Tourism development: Principles, Practices and Philosophies, Sterling
- https://static1.squarespace.com/static/552ce6d0e4b0d3f184888632/t/59d200294c326dd2b35facd8/1506934841873/Wildlife_and_Nature_by_JohnRowell+Small.pdf

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