Major Course in Computer Science
at TDC(Science) Level

Eligibility: Higher Secondary (Science) pass with Mathematics as one of the subjects at the Higher Secondary level securing minimum pass mark in the subject.

A student taking major in Computer Science must have Mathematics and one of the subjects Physics/Electronics/Statistics as general course at TDS(Sc) level.

(Course break-up)

Semester - 1

Paper Code	Paper Name / Topics	Marks	Classes / week	Credit
M101	Introduction to Computer Fundamentals and Programming	75 marks (Internal 15 marks)	6 (5 lectures + 1 tutorial)	6
M102	Basic Electronics	75 marks (Internal 15 marks)	6	6
M103	Practical Programming in C Basic Electronics -	Total 50 marks 30 marks (Internal - 6 marks) 20 marks (internal 4 marks)	4 laboratory sessions	4

Semester - 2

Paper Code	Paper Name/Topics	Marks	Classes / week	Credit
M201	ICT Hardware	75 marks (Internal 15 marks)	6 (5 lectures + 1 tutorial)	6
M202	Discrete Mathematics	75 marks (Internal 15 marks)	6 (5 lectures + 1 tutorial)	6
M203	Practical ICT Hardware	50 marks (Internal 10 marks)	4 laboratory sessions	4

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Maligaon, Guwahati-11

Ritesh
HOD Computer Science

M605 PROJECT

Total Marks: 150 (Internal 30)

Each student will be assigned some project work at the starting of the sixth semester. The objective of the project is to train the student to independently search, identify and study real-life important topics in CS/IT; to develop skills among students in a particular field of CS/IT; and to expose students to the world of technology, innovation, and research. Each student (or group of at most 2 students) is expected to take a unique problem under the guidance/supervision of a faculty member of the department. The problem should be such that the students get a chance to explore one or two technologies in depth and grab good command over those technologies after successful completion of the project. Repetition of the problems already attempted by students of the previous years should not be encouraged unless the problem has exceptionally great research importance and scope. Application problems, if found interesting and arisen at the demand of a particular situation, may also be assigned; but typical information management systems with just two or three simple database tables and/or data-entry forms are to be discouraged. The project may be done in other Institutes/Organizations with prior permission from the concerned department of the College and in this case also one project supervisor should have to be from the concerned department in the College. The work will have to be submitted in the form of a dissertation. Project presentation and evaluation will have to be done as per the regulation of TDC for semester system of G.U. with choice based credit and grading system.

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Maligaon, Guwahati-11

Ritesh

B.C.A
(BACHELOR OF COMPUTER APPLICATION)

GAUHATI UNIVERSITY

REVISED PROGRAM STRUCTURE AND DETAILED CURRICULUM IN THE L-T-P-C FORMAT

YEAR 2015

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Maligaon, Guwahati-11

HOD Computer Sc

BCA 4.4 MINOR PROJECT
(100 Marks)

Students will have to develop a mini project. Students may be divided into groups, each group containing not more than two students. The project topics will have to be approved by a committee constituted by the HOD of the concerned department. The committee will perform continuous monitoring of the projects by holding presentations on monthly basis. Final evaluation of 100 marks will be done in the department in the presence of an external examiner to be appointed by the Controller of Examinations, G.U.

Computer Sc.

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Jalukbari, Guwahati-14

SYLLABUS FOR T.D.C. MAJOR COURSE IN PHILOSOPHY

PROPOSED BY C.C.S. PHILOSOPHY IN ITS MEETING HELD ON 4.12.2009

NO. & NAME OF THE PAPER TOPICS (UNIT WISE) MARKS (UNITWISE)

FIRST YEAR

FIRST SEMESTER

M. 104. LOGIC I Full Marks 100

i. Nature of Logic: Argument and Argument Form, Truth and Validity	20
ii. Logical Constants, Propositional Variables, Truth-function, Truth-table Method	30
iii. Proposition, Modern Classification of Propositions	20
iv. the concept of set, operations on sets – union, intersection and difference	30

M. 105. EPISTEMOLOGY AND METAPHYSICS I Full Marks 100

i. Nature & Scope of Philosophy	20
ii. Knowledge by Acquaintance & Knowledge by Description	20
iii. Realism – Naïve and Scientific	30
iv. Idealism – Subjective (Berkeley), Objective (Hegel)	30

21.07.2022

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M.603CONTEMPORARY WESTERN PHILOSOPHY II

Full Marks 75

i. Common Features of Existentialism	15
ii. Kierkegaard: Three Stages of Existential Transformation, Subjectivity and Truth	15
iii. Nietzsche: Nihilism, Superman	15
iv. Husserl: Phenomenology – General Introduction	15
v. Sartre: Existence and Essence, Freedom	15

M.604. ETHICS II

Full Marks 75

i. Deontological Ethics: Kant's Categorical Imperative, The Gita theory of Niskama Karma	20
ii. Moore: Indefinability of Good	15
iii. A. J. Ayer: Emotivism	15
iv. Theories of Punishment	10
v. The Law of Karma	15

M.605. PHILOSOPHY OF RELIGION II

Full Marks 75

i. Otto's Idea of the Holy	15
ii. Symbolic Nature of Religious Language	15
iii. Arguments for the Existence of God	25
iv. Sankaradeva's Vaishnavism: God, Bhakti	20

M.606. PROJECT/ DISSERTATION

Full Marks 75

The Project will be in the form of a brief dissertation of the length between 10,000 – 12,000 words (typed or neatly hand-written). It may be either on a particular philosopher or on a particular topic relevant to the course. The same is to be carried out under the guidance of a teacher

Given below are some topics as examples:

i. The Concept of Human Rights – A philosophical Analysis
ii. Women's Liberation
iii. A Critical Account of Samkara's Philosophy
iv. Philosophical Ideas of Sankaradeva
v. Cartesian Dualism – A Critical Account
vi. Existentialism – A Critical Study

21.01.2022

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Maligaon, Guwahati-11

Syllabus for B.A. (Hons.) Economics under CBCS Gauhati University
(To be effective from 2019-20 session)

Gauhati University offers BA (Hons) in Economics. Moreover, Economics can be taken up as one of the Disciplines in BA (Regular) and BSc (Regular) Programmes.

The template of the BA (Hons) programme is given below.

Course Structure for B.A. (Hons.) Economics:

There are a total of fourteen economics core courses that students are required to take across six semesters. All the core courses are compulsory. In addition to core courses in economics, a student of B.A. (Hons.) Economics will choose four Discipline Specific Elective (DSE) Courses. The Discipline Specific Elective (DSE) Courses are offered in the fifth and sixth semesters and two such courses will be selected by a student from a set of courses specified for each of these semesters (Groups I and II in the attached table). It is recommended that each college should offer at least three Discipline Specific Elective (DSE) Courses in the fifth and sixth semesters to allow the students some minimal element of choice.

The syllabi for the Discipline Specific Elective (DSE) Courses are provisional and subject to revision.

Contact Hours: Each course has 5 lectures and 1 tutorial (per group) per week. The size of a tutorial group is 8-10 students.

Note on Course Readings: The nature of several of the courses is such that only selected readings can be specified in advance. Reading lists should be updated and topic-wise readings should be specified at regular intervals, ideally on an annual basis.

Eligibility for Admission into BA Hons Economics: Given the quantitative requirements of the program, only students who have passed mathematics at the Class XII level are eligible foradmission. [However not to deprive student who are currently at Higher Secondary level without Mathematics as one of the subjects and who have been considering opting for Economics (Major/Honours) course this eligibility criterion will be in force only from the third year of implementation of this syllabus. This was unanimously agreed upon in the meeting of the Under-Graduate Committee of Courses and Studies in Economics of Gauhati University held on 25/5/18]

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Maligaon, Guwahati-11

9/12/21
Head, Economics

THIRD SEMESTER SE

ECO-SE-3014: Data Collection and Presentation

Course Description:

This course helps students in understanding use of data, presentation of data using computer softwares like MS-Excel. Students will be involved practically to preparation of questionnaires/interview schedules, collection of both primary and secondary data and its presentation. Students will also be asked to prepare a report on collected data and will be evaluated accordingly.

Course Outline:

1. Use of Data

Use of data in social sciences; types and sources of data; data collection methods. Population census versus sample surveys. Random sampling.

2. Questionnaires and Schedules

Meaning; how to prepare a questionnaire and interview schedule; use of questionnaire and interview schedule for data collection.

3. Presentation of Data

Data presentation in tabular formats; use of diagrams for data presentation; creating charts and diagrams in MS-Excel – bar, line, pie, scatter, radar, bubble diagrams, population pyramids.

Readings

1. S P Gupta, *Statistical Methods*, S Chand.
2. Webtech Solutions Inc., *Mastering Microsoft Excel Functions and Formulas*

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9/12/21
HOD, Economics

BSc in Electronics
under Gauhati University

Duration – 3 Years Full Time

Revised Programme Structure and

Detailed Curriculum as per L-T-P-C format

2010

Course Code	Subject	Marks	L	T	P	C
EC M606	Project Phase II	75	0	2	4	6

Students individually or two at the most will carry out a detail study on a topic and implement a related system. The study must include literature survey, similar work done previously, proposed work, modifications to be included, applications etc. A report is to be prepared and submitted under the guidance of a supervisor. The report should contain design, implementation and experimental details. The topics involved in the work should be related to the courses undertaken by the student till this portion of progression under the programme and have contemporary relevance. The phase II involves the complete design of the work and the preparation of the report in continuation of the work carried out in the previous semester. The work must be defended through a presentation in front of a panel constituted by internal and external examiners.

GUIDELINES FOR PROJECT Work

At the beginning of the semester, the HoD must assign the supervision of project works to the faculty members after obtaining mutual consent between the respective supervisors and the students. It is the responsibility of the student to approach a faculty member with a request to offer him / her a project work. The student must inform the HoD about this communication.

Sufficient time should be allowed for satisfactory completion of reports, taking into account that initial drafts should be critiqued by the faculty guide and corrected by the student at each stage. The File is the principal means by which the work carried out will be assessed and therefore great care should be taken in its preparation.

In general, the File should be comprehensive and include:

- A short account of the activities that were undertaken as part of the project;
- A statement about the extent to which the project has achieved its stated goals.
- A statement about the outcomes of the evaluation and dissemination processes engaged in as part of the project;
- Any activities planned but not yet completed as part of the project, or as a future initiative directly resulting
- from the project;

- Any problems that have arisen that may be useful to document for future reference.

Report Layout

The report should contain the following components:

1. **Title or Cover Page**. The title page should contain the following information: Project Title; Student's Name; Course; Year; Supervisor's Name.
2. **Acknowledgements** (optional)-Acknowledgment to any advisory or financial assistance received in the course of work may be given.
3. **Abstract-** A good "Abstract" should be straight to the point; not too descriptive but fully informative. First paragraph should state what was accomplished with regard to the objectives. The abstract does not have to be an entire summary of the project, but rather a concise summary of the scope and results of the project
4. **Table of Contents-** Titles and subtitles are to correspond exactly with those in the text.
5. **Introduction-** Here a brief introduction to the problem that is central to the project and an outline of the structure of the rest of the report should be provided. The introduction should aim to catch the imagination of the reader, so excessive details should be avoided.
6. **Present Work and Methods-** This section should aim at experimental designs, materials used. Methodology should be mentioned in details including modifications if any.
7. **Results and Discussion-** Present results, discuss and compare these with those from other workers, etc. In writing these section, emphasis should be given on what has been performed and achieved in the course of the work, rather than discuss in detail what is readily available in text books. Avoid abrupt changes in contents from section to section and maintain a lucid flow throughout the thesis. An opening and closing paragraph in every chapter could be included to aid in smooth flow. Note that in writing the various secions, all figures and tables should as far as possible be next to the associated text, in the same orientation as the main text, numbered, and given appropriate titles or captions. All major equations should also be numbered and unless it is really necessary never write in "point" form.
8. **Conclusion-** A conclusion should be the final section in which the outcome of the work is mentioned briefly.

9. **Future prospects**
10. **Appendices-** The Appendix contains material which is of interest to the reader but not an integral part of the thesis and any problem that have arisen that may be useful to document for future reference.
11. **References / Bibliography**

Stress should be given on latex based report generation.

ASSESSMENT OF THE PROJECT

Essentially, marking will be based on the following criteria: the quality of the report, the technical merit of the project and the project execution. Technical merit attempts to assess the quality and depth of the intellectual efforts put into the project. Project execution is concerned with assessing how much work has been put in.

The work must be defended through a presentation in front of a panel constituted for the purpose. The panel should be constituted for the evaluation of the reports submitted by the students as part of the project works with the HoD as the chairperson, one internal and an external examiner (locally arranged) and the supervisor. The report must be submitted atleast two days before the scheduled date of presentation and checked and signed by the supervisor. The report must have a declaration of authenticity by the student and a certificate of execution and completion of the work given by the supervisor. Any report without the signature of the supervisor cannot be considered for evaluation.

Evaluation:
Dissertation / report: 30%;
Work: 40%;
Presentation / Viva Voce: 30%;

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IN THE L-T-P-C FORMAT

YEAR 2014

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Maligaon, Guwahati-11

HOD Computer Sc

6.3 PRACTICAL

Total Marks:50 (Internal mark 10, semester end examination 40)

At least 15 practical assignments covering paper 6.1 should be done by the students from the list prepared the UG Committee of Courses and Studies in Computer Science. The assignments are to be selected in such a way that the whole course is covered.

6.4 PROJECT WORK

Total marks: 150(Internal assessment - 30)

Each student will be assigned some project work at the starting of the sixth semester. The objective of the project is to train the student to independently search, identify and study real-life important topics in CS/IT; to develop skills among students in a particular field of CS/IT; and to expose students to the world of technology, innovation, and research. Each student (or group of at most 2 students) is expected to take a unique problem under the guidance/supervision of a faculty member of the department. The problem should be such that the students get a chance to explore one or two technologies in depth and grab good command over those technologies after successful completion of the project. Repetition of the problems already attempted by students of the previous years should not be encouraged unless the problem has exceptionally great research importance and scope. Application problems, if found interesting and arisen at the demand of a particular situation, may also be assigned; but typical information management systems with just two or three simple database tables and/or data-entry forms are to be discouraged. The project may be done in other Institutes/Organizations with prior permission from the concerned department of the College and in this case also one project supervisor should have to be from the concerned department in the College. The work will have to be submitted in the form of a dissertation. Project presentation and evaluation will have to be done as per the regulation of TDC for semester system of G.U. with choice based credit and grading system.

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HOD
Computer Sc

T.D.C.PROGRAMME IN HISTORY UNDER SEMESTER SYSTEM

MAJOR COURSE

FIRST SEMESTER

Paper No.

101 Introduction to History
102 History of India (up to A. D. 300)

SECOND SEMESTER

203 History of India (300-1200 A. D.)
204 History of Ancient Civilizations of the World

THIRD SEMESTER

305 India under the Turko-Afghans
306 History of Assam (5th Century A. D. to 1228)

FOURTH SEMESTER

407 India Under the Mughals
408 History of Europe (1453-1789)

FIFTH SEMESTER

509 India under the East India Company
510 History of Assam (1228-1826)
511 History of Europe (1789-1870)
512 History of Science and Technology in Pre-Colonial India
513 History of Great Britain (1485-1820)
514 History of China (1839-1949)

SIXTH SEMESTER

615 India under the Crown
616 History of Assam (1826-1947)
617 History of Europe (1871-1945)
618 World since 1945
619 History of Japan (1853-1941)
620 Project ——→ Marks – 75 (60+15) credit – 6(5+1).

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Maligaon, Guwahati-11

Mamoni Devi
Hod, Dept of History
ICB College, Maligaon
20/01/22.

GUIDELINES OF SYLLABUS FOR TDC IN HISTORY UNDER SEMESTER SYSTEM

1. The Under-Graduate course in History is of six semesters covering three calendar years.

2. There are a total of 20 courses in Major and 10 courses in General in the six semesters. The 1st, 2nd, 3rd & 4th Semester courses of Major are of 100 marks, 5th & 6th Semester courses are of 75 marks [Total marks: 1700 (100 X8) =800 + (75X 12) =900] In General course ,1st & 2nd Semester courses are of 75 marks each, 3rd & 4th semester courses of 50 marks each and 5th & 6th semester courses of 100 marks each.

3. There will be continuous assessment of students throughout the semester. The evaluation of the performance of the students will be based on both internal and external examinations. The internal examination will cover 20% of the marks and the remaining 80% will be covered by the external examination.

4. There are 8 credits per course of 100 marks each, 6 credits for 75 marks each and 4 credits for 50 marks each.

5. Each course of 100 & 75& 50 marks will have 2 & 1& 1 credit respectively, earmarked for internal assessment and the remaining credits for external examination.

6. The **internal assessment** of each course, of Major & General, of 100/75/50 (other than the Academic Project mentioned below) will be evaluated on the basis of the following components:

Unit Test:

- There will be two unit tests of 12 /10/10 marks each. The average of the two will be counted.

Assignment:

- There will be a Home Assignment of 8 /5 marks.

In courses of 50 marks each students shall be assessed on the basis of unit test only, and there shall be no home assignment

The answer scripts and marks will be submitted to the Head of the Department of History of the concerned college for onward transmission to the University.

7. As per the UGC guidelines, a minimum of 75% attendance is required for appearing in any semester examination.

ACADEMIC PROJECT

- The subject matter of the Project/ Projects will be selected by the Department of the respective colleges
- The themes could be of national, regional or local interest relating to the discipline of History
- The Project Report must be between 4000 and 5000 words
- The Report should be neatly typed in double space and in A-4 size paper , 12 font, Times New

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Maligaon, Guwahati-11

Mausumi Sarma
Dept of History
LC College

Roman

- The students must be informed about the themes of the Project by the beginning of the Sixth semester.
- The Report should include names of reference books and other sources consulted.
- It must be submitted on a date to be fixed by the Department of the respective colleges.
- The component of the Internal Evaluation will include **10** (ten) marks for presentation of the Report and **5** marks for a *viva-voce* examination.
- The *viva voce* examination will be conducted by a Board of at least 3 members. Members of the Board will comprise of the teachers of the Department of the college and may include teachers from the History faculty of other colleges.

* * * * *

Principal
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Maligaon, Guwahati-11

Mousumi Saikia
Dept. of History
L.C.B. College

GAUHATI UNIVERSITY
GUWAHATI – 14

NOTIFICATION
No. GU/M/ACR/F. Arts/2014/06

As per recommendation of the CCS, UG, Bengali, decision of the Faculty of Arts in its meeting held on 2-1-2014 and subsequent approval by the Honourable Vice-Chancellor, Gauhati University , dt. 24-1-2014 there will be minor modification in the syllabus of TDC Bengali, details enclosed, which will come into force with immediate effect.

This is for information and necessary action of all concerned.

Sd/-
Academic Registrar,
Gauhati University.

Memo No. GU/M/ACR/F. Arts/2014/657-701 Date: 05/02/2014

Copy forwarded for information and necessary action to:

1. The Controller of Examinations, G. U.
2. The Head of the Deptt. of Bengali, G. U.
3. All Principals of Affiliated Colleges.
4. University Website.
5. Office file.

5/2/14
Academic Registrar,
Gauhati University.

Principal
J. C. Bharali College
Maligaon, Guwahati-11

■ **কবিতা ও কাব্য** – মধুসূদন দত্ত, বিহারীলাল, রবীন্দ্রনাথ, জীবনানন্দ দাশ।

■ **নাটক** -- মধুসূদন দত্ত, দীনবন্ধু মিত্র, দ্বিজেন্দ্রলাল, রবীন্দ্রনাথ।

■ **উপন্যাস** – বঙ্কিমচন্দ্র চট্টোপাধ্যায়, রবীন্দ্রনাথ, শরৎচন্দ্র চট্টোপাধ্যায়, তারাশঙ্কর বন্দ্যোপাধ্যায়।

■ **টীকা** – শ্রীরামপুর মিশন, ঈশ্বরচন্দ্র গুপ্ত, কুলীনকুলসর্বস্ব, রমেশচন্দ্র দত্ত, তত্ত্ববোধিনী, বঙ্গদর্শন, গিরিশচন্দ্র ঘোষ, সবুজপত্র, কল্লোল, হুতোম প্যাঁচার নকশা, জ্যোতিরিন্দ্রনাথ ঠাকুর, অক্ষয়কুমার দত্ত, প্যারীচাঁদ মিত্র, রঙ্গলাল বন্দ্যোপাধ্যায়, ক্ষীরোদপ্রসাদ বিদ্যাবিনোদ, নবীনচন্দ্র সেন, বৃত্রসংহার, স্বপ্নপ্রয়াণ, হিন্দুমেলা, স্বর্ণকুমারীদেবী, সত্যেন্দ্রনাথ দত্ত, প্রভাত কুমার মুখোপাধ্যায়,পথের পাঁচালি, পদ্মানদীর মাঝি, সুকুমার রায়, জসীম উদ্দিন, মীর মশাররফ হোসেন, সতীনাথ ভাদুড়ি, আশাপূর্ণা দেবী,তিতাস একটি নদীর নাম।'

7. 6th Sem Paper 604, 605 and 606 are revised as follows:

"Paper: BEN|M| 6.4 ■প্রতিবেশী সাহিত্য –

ক) *'কারেঙর লিগিরি'* (অসমিয়া নাটক) – জ্যোতিপ্রসাদ আগরওয়ালা।

খ) **উনিশ বিঘা** দুই কাঠা- মৈত্রী গুরু, সাহিত্য অকাদেমি প্রকাশনা।

(মূল ওড়িয়া উপন্যাস- ফকিরমোহন সেনাপতি রচিত 'ছ মণ আঠ গুণ্ঠ')

Paper: BEN|M| 6.5 ■অসমের বাংলা সাহিত্য –

ক) *'গুণধরের অসুখ'* (নাটক) –প্রদ্যোৎ চক্রবর্তী। বাংলা সাহিত্য সংস্কৃতি সমাজ, (গুয়াহাটি) প্রকাশনা।

খ) **হারানো দিন হারানো মানুষ** (১ম খন্ড)—সুজিৎ চৌধুরী।

প্রকাশক- সোমেশ দাস, করিমগঞ্জ (২০০৫) নির্বাচিত পাঠ – ১–৬ এবং ১০–১৩ পর্ব।

Paper: BEN|M| 6.6 ■সাহিত্য প্রকল্প লিখন -- বিষয় – বিশ শতকের যে-কোনো একজন বাঙালি সাহিত্যিকের **ক) গল্প, খ) উপন্যাস বা গ) কবিতা** -- এই তিনটি বিভাগের মধ্যে যে-কোনো একটিকে বেছে নিয়ে ২৫০০ থেকে ৩০০০ শব্দসংখ্যার মধ্যে সীমিত একটি **আলোচনা পত্র (প্রকল্প)** রচনা করতে হবে।"

05/12/13

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GAUHATI UNIVERSITY

REVISED PROGRAM STRUCTURE AND DETAILED CURRICULUM

IN THE L-T-P-C FORMAT

YEAR 2014

HOD Computer Sc

6.3 PRACTICAL

Total Marks:50 (Internal mark 10, semester end examination 40)

At least 15 practical assignments covering paper 6.1 should be done by the students from the list prepared the UG Committee of Courses and Studies in Computer Science. The assignments are to be selected in such a way that the whole course is covered.

6.4 PROJECT WORK

Total marks: 150(Internal assessment - 30)

Each student will be assigned some project work at the starting of the sixth semester. The objective of the project is to train the student to independently search, identify and study real-life important topics in CS/IT; to develop skills among students in a particular field of CS/IT; and to expose students to the world of technology, innovation, and research. Each student (or group of at most 2 students) is expected to take a unique problem under the guidance/supervision of a faculty member of the department. The problem should be such that the students get a chance to explore one or two technologies in depth and grab good command over those technologies after successful completion of the project. Repetition of the problems already attempted by students of the previous years should not be encouraged unless the problem has exceptionally great research importance and scope. Application problems, if found interesting and arisen at the demand of a particular situation, may also be assigned; but typical information management systems with just two or three simple database tables and/or data-entry forms are to be discouraged. The project may be done in other Institutes/Organizations with prior permission from the concerned department of the College and in this case also one project supervisor should have to be from the concerned department in the College. The work will have to be submitted in the form of a dissertation. Project presentation and evaluation will have to be done as per the regulation of TDC for semester system of G.U. with choice based credit and grading system.

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Maligaon, Guwahati-11

HOD Computer Sc

Gauhati University
Post Graduate Diploma in Computer Application

Preferably students having Mathematics at the Higher Secondary level and obtaining minimum pass mark in the subject be admitted to the course OR a special bridge course may be designed by the Colleges for students not having Mathematics at the Higher Secondary level.

Number of hours/day - 4 hours
Number of days/week - 4 days

Semester I

Sl No.	Subject Code	Name of the Subject	Hours		Marks(%)	
			Theory	Practical	Theory	Practical
1	PGDCAP1	ICT Hardware	25	36	50	50
2	PGDCAP2	Programming in C	30	32	70	30
3	PGDCAP3	Overview of Operating System (DOS, Windows, UNIX / Linux and Shell Programming)	16	38	30	70
4	PGDCAP4	Introduction to Office Automation	12	50	20	80
5	PGDCAP5	Database Management System	36	26	70	30

Semester II

Sl. No.	Subject Code	Name of the Subject	Hours		Marks(%)	
			Theory	Practical	Theory	Practical
1	PGDCAP6	Data Structure through C language	36	20	70	30
2	PGDCAP7	Internet and Web Technology	25	30	50	50
3	PGDCAEL1	GUI Application Programming	25	30	50	50
	PGDCAEL2	Computer Oriented Numerical Methods	36	20	70	30
	PGDCAEL3	Computer Graphics	36	20	70	30
	PGDCAEL4	Object Oriented Programming with C++	36	20	70	30
4		Project	100 marks			

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HOD Computer Sc...

SYLLABUS : EDUCATION
THREE YEAR DEGREE COURSE (TDC)
MAJOR AND GENERAL
SEMESTER SYSTEM (Credit Based)
EFFECTIVE FROM 2011 – 2012
GAUHATI UNIVERSITY

COURSE STRUCTURE
TDC SYLLABUS FOR EDUCATION
(General Course)
W.E.F. August, 2011

Year	Semester	Paper	Title of the Paper	Marks	Class per Week	Credit
1stYear	1st Semester	1.01	Foundation of Educational Theories and Principles	75	6	6
	2nd Semester	2.01	Educational Psychology	75	6	6
2nd Year	3rd Semester	3.01	Development of Education in India	100	8	8
	4th Semester	4.01	Sociological Foundations of Education	100	8	8
3rd Year	5th Semester	5.01	Emerging Issues and Education	100	8	8
		5.02	Educational Measurement and Educational Statistics	100	8	8
	6th Semester	6.01	Educational Technology	100	8	8
		6.02	Environmental and Population Education	100	8	8
Total	**6**	**8**		**750**		**60**

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Project Work

Paper: 6.06 (Credits-6)
(Major Course)

Each candidate is required to complete any one project related to any area of the syllabus to be evaluated by internal and external examiners jointly through viva voce test. The project work will have to be completed according to following —

- Identification of the problem/topic
- Formulating the objectives
- Review the relevant / related literature (if any)
- Writing the hypotheses (wherever possible)
- Field identification-scope and delimitations
- Nature of information / data required — their sources
- Collection and organization of data, analysis and drawing conclusion
- Reporting

Submitted by
Prof. Lutfun Rasul Saikia
Head Department of Education
and Chairman, CCS (Under Graduate)
Gauhati University
Date : 1st February, 2011

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Maligaon, Guwahati-11

UNIT-IV **20**

Calculus (Theorems and problems involving trigonometric functions are excluded)

Differential Calculus: Concepts of function, limit and continuity, graphs of functions, definition of derivative, rules for differentiation, geometrical interpretation of derivative, derivative of a function of a function, derivative as a rate measurer, second order derivative, maximum and minimum of functions involving one variable only, concept of partial derivative.

Integral Calculus: Integration as anti-derivative; integration of x^n, logx, e^x; rules for integration, integration by substitution and by parts, concept of definite integral and simple problems.

Application of calculus: Emphasis must be given on the application of calculus in solving economic and business problems. Problems relating to production, cost, revenue, profits, producer's surplus, consumer's surplus, evaluation of marginal products in case of two factor inputs are to be treated.

UNIT-V **10**

Linear Programming (L.P.): Meaning, assumption, formulation, uses, limitation, solutions of LPP involving two variables by graphical method.

Suggested Books:

1. Business Mathematics, D.R. Agarwal, Vrinda Publications (P) Ltd.
2. A. Textbook of Business Mathematics, Padmalochan Hazarika, S. Chand.
3. Business Mathematics and Statistics –A.p. Verma, Asian BooksPvt. Ltd.
4. Business Mathematics, J.K. Singh, Himalaya Publishing House.
5. Business Mathematics, and Statistics, R.K. Ghosh, S. Saha, New Central Book Agency (Pvt.) Ltd.
6. Basic Mathematics- RGD Allen- Macmillan, New Delhi.
7. Mathematics for Economics –Dowling E.T. –Schawn Series, McGraw Hill, London.
8. Mathematics for Business studies –J.K. Thukural –Mayoor Paperbacks.
9. Mathematics and Statistics –Goel, Ajoy and Aloka, Taxman Allied Servies (P) Ltd.

101: Fundamentals of Insurance

Marks: 80

UNIT-I: Introduction 16

Definition & Nature of insurance; origin & development of insurance, history of insurance in India, kinds of insurance, principles of insurance, importance of insurance, insurance and wagering agreement.

GAUHATI UNIVERSITY

B. Com. (Semester) Syllabus

2011
GAUHATI UNIVERSITY
Gopinath Bardoloi Nagar
Guwahati - 781 014
Assam : India

604: Regulatory Framework of Business – II

Marks: 80

UNIT-I: INDIAN PARTNERSHIP ACT 1932 16

Nature of partnership and certain similar organizations; co ownership; Joint Hindu Family; partnership deed; rights and liabilities of partners including those of newly admitted partners, retiring and deceased partners; implied authority of partners & its scope; Registration of firms; Dissolutions of firms & of the partnership.

UNIT-II: CONSUMER PROTECTION ACT 1986 16

Object and definition, consumer protection councils, composition and jurisdiction of grievance redressal machinery, power of redressal agencies, nature and scope of remedies 2005.

UNIT-III: THE RIGHT TO INFORMATION ACT 2005 16

Important definitions, object, scope, obligation of public authorities under the act; rights for obtaining information; disposal of request, information commission, appeal and penalties.

UNIT-IV: FOREIGN EXCHANGE MANAGEMENT ACT 1999 16

Dealing in foreign exchange; Holding of foreign exchange; Current account transactions; Capital account transactions; Export of goods and services; Reserve Bank's powers in Foreign Exchange Management; contravention and penalties; Appointment of Adjudicating Authority; Appeal to Appellate Tribunal

UNIT-V: THE OBJECT AND SCOPE OF THE FOLLOWING ACTS: 16

1. Information Technology Act 2000
2. Securities and Exchange Board of India Act.
3. Limited Liabilities Partnership Act. 2000
4. Patent Act 1999

605: Project Report

Marks: 100

(On any topic of Commerce, Economics, Business, Industry or Services Sector)

(Common for all honours students)

Project Report

Division of Marks

(a)	Report writing:	70 Marks
(b)	Viva- voce	30 marks

There shall be no internal evaluation in this paper.

□□□

trigonometric functions, inverse functions, Gregory's
hyperbolic functions, inverse functions, Gregory's
Unit 4:Relation between the roots and coefficients of a general polynomial
of equations,Descarte's rule of signs, symmetric functions of

GAUHATI UNIVERSITY

Syllabus for T.D.C. (Semester)
in
Assamese

2010
GAUHATI UNIVERSITY
Gopinath Bardoloi Nagar
Guwahati - 781 014
Assam : India

নাৰায়ণ দাস আৰু

পৰমানন্দ ৰাজবংশী (সম্পাদিত) : অসমীয়া সংস্কৃতি কোষ

অসম সাহিত্য সভা : অসমীয়া জাতিৰ ইতিবৃত্ত

আব্দুছ ছাত্তাৰ : সংমিশ্রণত অসমীয়া সংস্কৃতি

পৰমানন্দ ৰাজবংশী (সম্পাদিত) : অসমীয়া জাতি আৰু সংস্কৃতি

পুতলী কায়স্থ (সম্পাদিত) : **অসমৰ বিভিন্ন জনগোষ্ঠীৰ বিবাহ পদ্ধতি**

উপেন ৰাভা হাকাচাম : বৰ অসমৰ বর্ণিল সংস্কৃতি

: অসমৰ জনজাতীয় সংস্কৃতি

অঞ্জলি মহন্ত ৰায়চৌধুৰী আৰু

বসন্ত দলে (সম্পাদিত) : অসমৰ জনগোষ্ঠী : এটি পৰিচয়

দ্বিজেন্দ্র নাথ ভকত : অসমৰ কোচ ৰাজবংশী জনজাতি

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দ্বিতীয় বর্ষ : চতুর্থ ষাণ্মাসিক

M-403 : *ক্ষেত্র অধ্যয়ন* *মূল্যাংক : ৫০*

এই কাকতখনৰ বাবে ছাত্র-ছাত্রীয়ে বিভাগীয় শিক্ষকৰ তত্ত্বাবধানত কোনো বিশেষ স্থান, জনগোষ্ঠী, উৎসর-পার্বণ, লোকাচাৰ, লোক-পৰিবেশ্য কলা, লোক-সাহিত্য, লোক ভাষা আদি যিকোনো এটা বিষয়ত ক্ষুদ্র গবেষণা পত্র প্রস্তুত কৰিব লাগিব। গবেষণা পত্রৰ কলেবৰ ৪০০০-৫০০০ শব্দৰ ভিতৰত হ'ব লাগিব।

তৃতীয় বর্ষ : পঞ্চম ষাণ্মাসিক

M-501 : *প্রথম কাকত : পুৰণি অসমীয়া নাটক* *মূল্যাংক : ৬০*

প্রথম গোট	:	শংকৰদেৱ : ৰুক্মিণী হৰণ নাট	—	১৫
দ্বিতীয় গোট	:	মাধৱদেৱ : অর্জ্জুন ভঞ্জন নাট	—	১৫
তৃতীয় গোট	:	শ্রীৰাম আতা : সুভদ্রা হৰণ নাট	—	১৫
চতুর্থ গোট	:	গোপালদেৱ : জন্মযাত্রা	—	১৫

প্রসংগ পুথি

কালিৰাম মেধি : অংকাবলী

বিৰিঞ্চি কুমাৰ বৰুৱা : অংকীয়া নাট

সত্যেন্দ্র নাথ শর্মা : অসমীয়া নাট্য সাহিত্য

: অংকমালা

: **পৰম্পৰাগত প্রাচ্য নাট্যাভিনয়**

হৰিশ্চন্দ্র ভট্টাচার্য : অসমীয়া নাট্য সাহিত্যৰ জিলিঙনি

শৈলেন ভৰালী : অসমীয়া লোকনাট্য পৰম্পৰা

ৰাম গোস্বামী : অসমৰ লোক নাট্য

হৰিনাথ শর্মা দলৈ : শংকৰদেৱৰ সাহিত্য প্রতিভা

ভৱপ্রসাদ চলিহা (সম্পাদিত) : মাধৱদেৱৰ সাহিত্য

মঞ্জী গোস্বামী : চিন্তা-প্রবাহ

পৰমানন্দ ৰাজবংশী (সম্পাদিত) : অসমীয়া নাটক : পৰম্পৰা আৰু পৰিবর্তন

নাৰায়ণ দাস : শংকৰী সাহিত্যৰ ভূমিকা

লীলাৱতী শইকীয়া বৰুৱা (সম্পাদিত) : প্রবন্ধাবলী

তৃতীয় বর্ষ : পঞ্চম ষাণ্মাসিক

M-502 : *দ্বিতীয় কাকত : পুৰণি অসমীয়া কথা-সাহিত্য* *মূল্যাংক : ৬০*

পাঠ্যপুথি : স্নাতকৰ কথাবন্ধ (গুৱাহাটী বিশ্ববিদ্যালয়)

প্রথম গোট	:	কথাগীতা (১ম আৰু ২য় অধ্যায়)	—	১৫
দ্বিতীয় গোট	:	শংকৰদেৱ : শ্রীকৃষ্ণৰ পূর্ৱাগ গোপালচৰণ দ্বিজ : গুৰু-সেৱা-মাহাত্ম্য	—	১৫
তৃতীয় গোট	:	ৰঘুনাথ মহন্ত : ৰামৰ বন-গমন ৰত্নাকৰ কন্দলি আৰু অর্জুন দাস ৰৈৱাগী : ত্রিপুৰাত মদনপূজাৰ আড়ম্বৰ	—	১৫
চতুর্থ গোট	:	শ্রীনাথ দুৱৰা ৰৱৰুৱা : স্বর্গদেৱ ৰুদ্র সিংহ নাথান ব্রাউন : শ্রীযুত ব্রাউন চাহাবৰ পত্র	—	১৫

... logarithm of a complex number, exponential ... of cosine and sine,

Syllabus (Non CBCS).

per week
Marks General
Course content
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6th
Semest
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M-601-
Hydrostatics
6 6 75 E-603 Linear
Algebra and
Complex
Analysis
8 8 100
M-602
Numerical
Analysis
6 6 75 E- 604
Advanced
Calculus
8 8 100
M-663
Computer
Programming
in C
4(Th) +
(Pr)
4(Th) + 2
(Pr)
75
M-604 Discrete
Mathematics
6 6 75
M 605 Graph
and
Combinatorics
6 6 75
M- 606 Project 6 6 75
1st Semester
Revised Syllabus of Mathematics
For
Three year Degree Course
(Major Course)
Paper-M104
Algebra and Trigonometry Marks: 100 (80 + 20 internal), Lectures 40

Unit 1: Relations ,Equivalence relations, mapping, binary composition. 10 marks

Unit 2: Groups, subgroups cosets, Lagrange's theorem on order of a subgroup of a finite group. Euler's theorem, Fermat's theorem, subgroup generated by a set, cyclic groups, permutation groups, normal subgroups, quotient groups. 20 marks

Unit 3: Complex numbers as ordered pairs of real numbers, geometrical representation and polar form of complex numbers,modulus,argument and their properties, complex equations of straight line and circle,De'Moiver's theorem, expansion of cosx and sinx in positive integral powers of x, logarithm of a complex number, exponential and trigonometric functions of a complex variable, Euler's expansion of cosine and sine, hyperbolic functions, inverse functions, Gregory's series. 20 marks

Unit 4: Relation between the roots and coefficients of a general polynomial equation in one variable, transformation of equations,Descarte's rule of signs, symmetric functions of roots, solution of cubic equation by Cardon's method. 10 marks

Unit 5: Symmetric, skew symmetric, Hermitian and skew Hermitian matrices, elementary operations on matrices, adjoint and inverse of a matrix, rank of a matrix, invariance of rank under elementary operations, normal form, solution of a system of linear equations by matrix method. 20 marks

Text Books:

Principal
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Maligaon, Guwahati-11

SYLLABUS

Ability Enhancement Compulsory Course
(All Undergraduate Degree Programmes under Gauhati University)
ENV -AE -2014: Environmental Studies
Total marks: 100 (External: 80 + Internal: 20)
Nature of Course: AECC

No. of Credits: 4

No. of hours: 60

(Approved in the Academic Council 08-11-2019)

Unit1: Introduction to Environmental Studies

- Multidisciplinary nature of environmental studies;
- Scope and importance;
- Concept of sustainable development

(3 lectures)

Unit 2: Ecosystems

- What is an ecosystem? Structure and function of ecosystem: Energy flow in an ecosystem: food chains, food web and ecological succession. Case studies of the following ecosystems:
  a) Forest ecosystem
  b) Grassland ecosystem
  c) Aquatic ecosystems (ponds, streams, lakes, rivers)
  d) Mountain ecosystem

(8 lectures)

Unit 3: Natural Resources: Types, Renewable and Non-renewable Resources

- Land resources : landuse change; land degradation, soil erosion and desertification
- Forest resources: Deforestation: Causes and impacts due to mining, Construction of big dams and their effects on forests and people.
- Water resources: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state: Indo-China, Indo-Bangladesh, Cauveri disputes) .
- Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies – coal mining, crude oil extraction.

(8 lectures)

Unit 4: Biodiversity and Conservation

- Levels of biological diversity: genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots
- India as a mega-biodiversity nation; Endangered and endemic species of India
- Threats to biodiversity: Habitat loss, poaching of wildlife, man- wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex situ conservation of biodiversity.
- Ecosystem and diversity services: Ecological, economic, social, ethical, aesthetic and informational value.

(8 lectures)

Unit 5: Environmental Pollution

- Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution
- Nuclear hazards and human health risks
- Solid waste management: Control measures of urban and industrial waste.
- Pollution case studies – Bharalu river, Deepor Beel, Kolong river

(8 lectures)

Unit 6: Environmental Policies & Practices

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture
- Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements, policies and treaties; Montreal and Kyoto protocols and Convention on Biological Diversity (CBD), CITES.
- Nature reserves, tribal populations and rights, and human wildlife conflicts in the context of Assam

(8 lectures)

Unit 7: Human Communities and the Environment

- Human population growth: Impacts on environment, human health and welfare.
- Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management: floods, earthquake, cyclones and landslides
- Environmental movements: Chipko, Silent valley, Narmada Bachao, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (CNG, electric vehicles, green energy, waste minimization)

(9 lectures)

Unit 8: Field work

- Visit to an area to document environmental assets : river/forest/flora/fauna, etc
- Visit to a local polluted site - Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems- pond, river, stream

(Equivalent to 8 lectures)

Suggested Readings:

1. Bharucha Erach : Text book on Environmental Studies, UGC, New Delhi
2. Carson, R 2002. Silent Spring. Houghton Mifflin Harcourt.
3. De A.K.: Environmental Chemistry, Wiley Eastern Ltd.
4. Kaushik Anubha and C.P.Kaushik : Perspective in Environmental Studies, New Age International
5. Rajagopalan, R. (2018). Environmental Studies. (3rd Edition) Oxford University Press
6. S. C. Santra (2011): Environmental Science, New Central Book Agency

21/03/22
Manisha Phukan
Co-ordinator, EVS

21/3/2022
Principal
L.C. Bharali College
Maligaon, Guwahati-11