Pub Ka College
Estd:-1972
P.O. Baihata Chariali

বিষয় সম্পৰ্কীয় ঐচ্ছিক পাঠ্য

ASM-HE-6056

প্ৰকল্প

মূল্যাংক ঃ ১০০

এই কাকতখনৰ বাবে ছাত্ৰ-ছাত্ৰীয়ে বিভাগীয় শিক্ষকৰ তত্ত্বাৱধানত কোনো গুৰুত্বপূৰ্ণ স্থান, উৎসৱ-পাৰ্বণ, লোকাচাৰ, লোকপৰিৱেশ্য কলা, লোক সাহিত্য, লোকভাষা আদি যিকোনো এটা বিষয়ত প্ৰকল্প প্ৰস্তুত কৰিব লাগিব। প্ৰকল্পৰ শব্দসংখ্যা ৪০০০-৫০০০ ৰ ভিতৰত হ'ব লাগিব। বিভাগৰ মুৰব্বী/ অধ্যাপক/অধ্যাপিকাই তত্ত্বাৱধায়কৰ সহযোগত মূল্যায়নৰ ব্যৱস্থা কৰি প্ৰকল্পটি আৰু নম্বৰ তালিকা বিশ্ববিদ্যালয়ৰ পৰীক্ষা নিয়ন্ত্ৰকলৈ প্ৰেৰণ কৰিব। এই প্ৰকল্পৰ মুঠ ১০০ নম্বৰৰ ভিতৰত ৮০ নম্বৰ প্ৰকল্পৰ বাবে আৰু ২০ নম্বৰ মৌখিক পৰীক্ষাৰ বাবে ধাৰ্য কৰা হৈছে।

THIRD SEMESTER SE

ECO-SE-3014: Data Collection and Presentation

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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*

FOURTH SEMESTER SE
ECO-SE-4014: Data Analysis

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Course Description:

This course discusses how data can be summarized and analysed for drawing statistical inferences. The students will be introduced to important data sources that are available and will also be trained in the use of statistical softwares like SPSS/PSPP to analyse data.

Course Outline:

1. Data entry in softwares like MS-Excel, SPSS/PSPP

2. Univariate frequency distributions. Measures of central tendency: mean, median and mode; arithmetic, geometric and harmonic mean. Measures of dispersion: range, mean deviation and standard deviation, skewness and kurtosis.

3. Bivariate frequency distribution. Correlation and regression. Rank correlation.

4. Estimation of population parameters from sample data. Unbiased estimators for population mean and variance.

Readings:

1. P.H. Karmel and M. Polasek (1978), *Applied Statistics for Economists*, 4th edition, Pitman.
2. M.R. Spiegel (2003), *Theory and Problems of Probability and Statistics* (Schaum Series).

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HIS –SE-3014: Historical Tourism in North East India

Lecture : 03; Tutorial : 01 (per week)

Course Outcome:

After completing this course, students will be able to explain Tourism in North East India with special reference to the historical monuments, cultural and ecological elements and places of the north east India country as tourist and heritage sites of the nation. They will be able to relate to the growing vocation of tourism as an industry and the applicability of historical knowledge for its growth.

In-semester assessment: Students shall carry out a small project (submission not less than 2000 words) based on survey of an area or monument. The project should try to unearth the tourism potential of the surveyed area or monument. The project may also be on an existing tourist site. No sessional examination is required for this paper.

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

Unit IV : Fairs and festivals of the North – East

[a] : Festivals - *Bihu, Ali Aye Lrigang, Mopin* festival, Tai – Buddhist festivals in Assam

[b] : *Bhaona, Ras* celebration in Majuli

[c] : Fairs – Jonbil Mela, Ambubachi fair at Kamakhya

[d] : Tourist festivals based on ethnic culture – Horn Bill festival, Sangai festival, Dihing Patkai festival

EDUCATION

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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

Philosophy

Pub Kamrup College
Estd:-1972
P.O. Baihata Chariali

3. Globalisation: N. B. Stegger (OUP)
4. Marx's Writings on Sociology and Social Philosophy (Penguin)
5. Society: McIver & Page

For Reference

1. The Second Sex: Simone de Beauvoir
2. The Whole Woman: Germaine Greer (Transworld)

N. PROJECT/ DISSERTATION (Paper 606)

For carrying out the project work the student is advised to consult various relevant books and journals available in the library. Collection of materials from the internet, from sources such as *Wikipedia, Stanford Encyclopedia, Internet Encyclopedia of Philosophy* that are freely available in the net is also encouraged.

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BOT-HC-4036
Plant Systematics

Total Lectures : 60 Credits : 6 (Theory - 4, Practical - 2)

10.1 THEORY

Unit 1 : *Significance of Plant systematics* (8 lectures)

Introduction to systematics; Plant identification, Classification, Nomenclature. Evidences from palynology, cytology, phytochemistry and molecular data. Functions and importance of Herbarium; Important herbaria and botanical gardens of the world and India; Virtual herbarium; E-flora; Concept of taxa (family, genus, species); Categories and taxonomic hierarchy.

Unit 2 : *Botanical nomenclature* (10 lectures)

Principles and rules (ICN); Ranks and names; Typification, author citation, Effective and valid publication, rejection of names, principle of priority and its limitations; Names of hybrids.

Unit 3 : *Systems of classification* (12 lectures)

Major contributions of Theophrastus, Bauhin, Tournefort, Linnaeus, Adanson, de Candolle, Bessey, Hutchinson, Takhtajan and Cronquist; Classification systems of Bentham and Hooker (upto series) and Engler and Prantl (upto series); Brief reference of Angiosperm Phylogeny Group (APG) classification.

Unit 4 : *Numerical taxonomy and cladistics* (10 lectures)

Characters; Variations; OTUs, character weighting and coding; Cluster analysis; Phenograms, cladograms (definitions and differences).

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Unit 5 : *Phylogeny of Angiosperms* (12 lectures)
Terms and concepts (primitive and advanced, homology and analogy, parallelism and convergence, monophyly, Paraphyly, polyphyly and clades). Origin and evolution of angiosperms; Co-evolution of angiosperms and animals; Methods of illustrating evolutionary relationship (phylogenetic tree, cladogram).

Unit 6 : *Angiospermic Families* (8 lectures)
Detail study of the following families:
Magnoliaceae, Fabaceae, Asteraceae, Solanaceae, Acanthaceae, Lamiaceae, Euphorbiaceae, Orchidaceae, Musaceae, Zingiberaceae, Poaceae.

10.2 PRACTICAL

1. Study of vegetative and floral characters of locally available angiospermic plants belonging to the following families (Description, V.S. flower, section of ovary, floral diagram/s, floral formula/e and systematic position according to Bentham & Hooker's system of classification): Fabaceae, Solanaceae, Acanthaceea, Lamiaceae, Euphorbiaceae, Musaceae, Orchidaceae.

2. Field visit to familiarise students with vegetation of an area and identification of plant species / Visit to Academic or Research Institutions.

3. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).

Suggested Readings

1. Singh, (2012). *Plant Systematics:* Theory and Practice Oxford & IBH Pvt. Ltd., New Delhi. 3rdedition.
2. Jeffrey, C. (1982). An Introduction to *Plant Taxonomy.* Cambridge University Press, Cambridge.

3. Judd, W.S., Campbell, C.S., Kellogg, E.A., Stevens, P.F. (2002). Plant Systematics-A Phylogenetic Approach. Sinauer Associates Inc., U.S.A. 2nd edition.

4. Maheshwari, J.K. (1963). *Flora* of Delhi. CSIR, New Delhi.

5. Radford, A.E. (1986). Fundamentals of *Plant Systematics*. Harper and Row, New York.

6. Pandey, B.P. (2018). A Textbook of Botany: Angiosperm. S. Chand Publishing, 7361, Ram Nagar, Qutab Road, New Delhi-110055.

CHEMISTRY

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Estd:-1972
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PAPER M 606
Project work (6 months)
(Total Marks 75)

Investigation of a particular assignment given to individual student. Different project to be given to each student.

Distribution of marks:

1. Internal to be given by a Board of examiners which will include all the teachers of the Department. 25 marks
2. External 25 marks
3. Presentation of the project by the student (external + Board of examiners) 15 marks
4. Internal (to be given by the supervisor only) 10 marks

Statistics

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Paper M605
75 Marks (Internal 20%)
Credit - 6

Practicals based on Design of Experiments, Testing of Hypothesis, Non Parametric, & Demography.

Paper M606:
Project : 75 Marks
Credit -6

(Internal 20%)

Students will be required to go for data collection on some topics. Selection of the topic , sampling plan and data collection will have to be done under guidance of teachers of the department. On the basis of this data collection exercise, each student will be required to submit a project report. Among other things, this project report should contain details of the topic, the hypotheses to be tested, the sampling plan, and details of data collection. It should also contain analysis and results of the study. While data collection may be done in a group, the analysis, conclusion and report writing would have to be done individually by each student under guidance of a teacher of the department. The external examiner will examine the report and also carry out a viva voce examination. Based on the report and the viva voce of the report, marks will be assigned as per project scheme of GU for TDC.

References for Semester 6 :

1. A M Goon , M K Gupta, B Dasgupta . Fundamental of Statistics, Vol 2, World Press
2. A M Goon , M K Gupta, B Dasgupta . Outllines of Statistics, Vol 1& 2, World Press
3. P Mukhopadhyay. Applied Statistics, New Central Book Agency.
4. P Mukhopadhyay.Theory and Methods of Survey Sampling, New Central Book Agency.
5. Rajaram. Computer Programming in Fortran.
6. J. Medhi. Statistical Methods, Ed, New Age International (P) Ltd.
7. P Mukherjee: Malthematical Statistics.

In 6th Semester Total Marks (in Major) 450
Total Credit - 36
Total Marks
(Part I + Part II + Part III)
Major – 1700 Credit - 208

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GAUHATI UNIVERSITY

Revised Syllabus of Mathematics (Major and General)

For

1st, 2nd, 3rd, 4th, 5th and 6th Semester

Course Structure: Mathematics (Major and General)

Semester	Major course content	Credit	Classes per week	Marks		General Course content	Credit	Classes per week	Marks
1st Semester	M 104- Algebra and Trigonometry	8	8	100		E-101 Classical Algebra and Trigonometry	6	6	75
	M 105- Calculus	8	8	100					
2nd Semester	M – 204 Co-ordinate Geometry	8	8	100		E-201 Abstract Algebra and Matrices	6	6	75
	M -205 Differential Equation	8	8	100					

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Semester	Major course content	Credit	Classes per week	Marks		General Course content	Credit	Classes per week	Marks
6th Semester	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-603 Computer Programming in C	4(Th) + 2 (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					

2. To determine ... different values of R.
3. To determine the value of 'J' (the mechanical equiv... Bern's method
4. To determine the value of self-induction of a coil with the help of Anderson's Bridge.
5. To determine the constant of a ballistic galvanometer by using a capacitor charged to a known potential difference.
6. To study the ripple factor of a half-wave and full-wave rectifier using semiconductor diode and L and Π section filter.(Using Breadboard)
7. To measure the phase difference between he signal accros R and C of an R-C network using CRO and hence find the value of the resistor and frequency of the signal.
8. To determine the temperature coefficient of the material of a given wire.
9. To study the detection of the cosmic ray on the earth surface using G.M. counter.

(Additional experiment for those Colleges having Star College Scheme).

Minimum number of experiments to be completed by each student during the semester is six.

PAPER: 606 (PROJECT AND COMPUTER PROGRAMMING) Total Marks: 75

(a) PROJECT: Total Marks: 40

(Experimental project work of any relevant topic within the syllabus of Physics, to be guided by a teacher and to be submitted along with a report)

(b) COMPUTER PROGRAMMING: Total Marks: 35

(One practical should be performed in the examination from the following list, in five hours)

1. To determine (a) mean, (b)standard deviation and (c)standard error of the given experimental data.
2. To analyse the supplied experimental data between two variables using least square straight line fitting programme.
3. To rearrange the supplied numerical data in ascending/descending order and find the largest/smallest number in a given list of numbers.
4. To solve for the two unknown variables in the given pair of simultaneous equations.
5. To find roots (real and distinct, real and repeated and imaginary) of a quadratic equation.
6. To generate Fi...

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PHYSICS

Physics

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Skill Enhancement Papers
[Choose One]

PHY-SE-3014
Physics Workshop Skills
Credits: 4 (Theory: 2, Lab: 2)
Theory: 30 Lectures

Preferred minimum qualifications of the teacher/instructor: Assistant Professor of Physics or a B.E/B.Tech in Mechanical Engineering

The aim of this course is to enable the students to familiar and experience with various mechanical and electrical tools through hands-on mode

Unit I: Introduction (4 Lectures)
Measuring units. conversion to SI and CGS. Familiarization with meter scale, Vernier calliper, Screw gauge and their utility. Measure the dimension of a solid block, volume of cylindrical beaker/glass, diameter of a thin wire, thickness of metal sheet, etc. Use of Sextant to measure height of buildings, mountains, etc.

Unit II: Mechanical Skill (10 Lectures)
Concept of workshop practice. Overview of manufacturing methods: casting, foundry, machining, forming and welding. Types of welding joints and welding defects. Common materials used for manufacturing like steel, copper, iron, metal sheets, composites and alloy, wood. Concept of machine processing, introduction to common machine tools like lathe, shaper, drilling, milling and surface machines. Cutting tools, lubricating oils. Cutting of a metal sheet using blade. Smoothening of cutting edge of sheet using file. Drilling of holes of different diameter in metal sheet and wooden block. Use of bench vice and tools for fitting. Make funnel using metal sheet.

Unit III : Electrical and Electronic Skill (10 Lectures)
Use of Multimeter. Soldering of electrical circuits having discrete components (R, L, C, diode) and ICs on PCB. Operation of oscilloscope. Making regulated power supply. Timer circuit, Electronic switch using transistor and relay.

Unit III : Introduction to prime movers: (6 Lectures)
Mechanism, gear system, wheel, Fixing of gears with motor axel. Lever mechanism, Lifting of heavy weight using lever. braking systems, pulleys, working principle of power generation systems. Demonstration of pulley experiment.

Lab

1. Study the use of meter scale, Vernier caliper, Screw Gauge.
2. To measure dimension of solid block, volume of cylindrical beaker/ glass, diameter of thin wire, thickness of metal sheet.
3. To measure height of building, mountain using Sextant
4. To join metals using welding.
5. To prepare nut, bolts etc. using lathe machine and other tools.
6. To Cut a metal sheet and smoothening of the cutting edge using file.
7. Study the use of multimeter and Oscilloscope.
8. To use soldering of electrical circuit having discrete components on PCB.
9. To construct a regulated power supply
10. Demonstration of lifting of heavy weight using lever

Zoology.

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TDC VI SEMESTER (MAJOR)

PAPER M- 605 (PROJECT)

Total Marks : 75
Total Credits : 6

X PROJECT (Project work should be submitted in a bound paper form and shall be evaluated by External Examiner)
Content and Presentation : 50 Marks
Viva on Project : 25 Marks

Revised Paper 606 (M).

1. Project → 25
2. Submission - 10.
3. Report - 15
4. Viva - 10
5. Internal Assessment → 15

10 ~~fish span~~

① ornamental fish - 5
② stored grain Pest - 4
③ Life cycle - 1 No.

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BACHELOR OF BUSINESS ADMINISTRARION (BBA) SYLLABUS
GAUHATI UNIVERSITY

First Semester:
1.1 Elective English and Business Communication
1.2 Business Economics
1.3 Business Mathematics
1.4 Principles of Management
1.5 Computer Fundamentals (MS Office)

Second Semester:
2.1 Personality and Personal Skill Development
2.2 Indian Economic Scenario
2.3 Business Statistics
2.4 Financial Accounting
2.5 Computer Application

Third Semester:
3.1 Organisation Behaviour
3.2 Marketing Management
3.3 Cost and Management Accounting
3.4 Production and Operational Management
3.5 Office Organisation and Management

Fourth Semester:
4.1 Human Resource Management
4.2 Marketing Research
4.3 Financial Management
4.4 Management of Services
4.5 Business Laws

Fifth Semester:
5.1 Summer Project
5.2 Industrial Relation
5.3 Advertising and Sales Promotion
5.4 Working Capital Management
5.5 Consumer Behaviour and Retailing

Sixth Semester:
6.1 Sales and Distribution Management
6.2 Taxation Laws
6.3 Rural Marketing
6.4 Export Marketing
6.5 Entrepreneurship and Small Business Management

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Paper: FPM-VC-1036- Industrial Processing of Fruits and Vegetables

Total credit: 6

Total marks: 100

Theory: total marks: 60

Unit 1

Definition of food processing, various subsectors of food processing industry, status and scope
of fruits and vegetables processing industry in India

Unit 2

Post harvest losses of fruits and vegetables and factors affecting them, post harvest changes in
fruits and vegetables , maturity indices of fruits and vegetables , climacteric and non climacteric
fruits ,fruit ripening and changes ,packaging of whole fruits and vegetables ,post harvest
physical and chemical treatment to enhance the shelf life of fruits and vegetables
,
microbiological spoilage of fruits and vegetables .

Unit 3

Classification, chemical composition and nutritive value of fruits and vegetables, preparing
fruits and vegetables for processing- washing, sorting, grading, peeling, Bottling and canning of
fruits and vegetables

Unit 4

Job role and responsibilities of jam, jelly and ketchup processing technician, hierarchy role and
organizational structure

Unit 5

Machineries for peeling, slicing/dicing, pulping, hydraulic pressing and clarification; preparation
and maintenance of work area and process machineries; different materials and equipments
used in the cleaning process

Unit 6

FPO specifications and preparations of Jam, Jellies, marmalade, pickles
Tomato processing- FPO standard and preparation of tomato juice, puree, paste, chutney,

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sauce and ketchup.
Preparation and standard of fruit juices, squashes, cordials, fruit syrup, nectar, RTS and pulp

Unit 7

Packaging of jam, jelly and ketchup; microbial spoilage; microbial; analysis of products;
documentation procedure and maintenance of record of raw materials, packing materials,
finished products

Internship: In food industry/processing unit.

Conduct in workplace: The students will undergo industrial internship (NSQF level 4) during the
first semester. Evaluation will be done by departments based on the feedback from the
industrial management on their performance during the tenure.

Report making and verbal presentation:

After completion of the internship, the student will prepare a report on his work and
experience. Evaluation will be based on the quality of the report and presentation.

Practical: total marks: 20

1. Studies on maturity indices of fruits and vegetables.
2. Estimation of total soluble solids (TSS).
3. Studies on the physiological disorders-chilling injury of banana.
4. Preparation of fruit jam
5. Preparation of fruit jelly/marmalade
6. Preparation of fruit preserve and candy.
7. Preparation of fruit juice/squash/cordial/nectar
8. Preparation of pickle/mixed pickle.
9. Preparation of tomato products- sauce, puree, ketchup.
10. Visit to fruit and vegetable processing industry.

Internal evaluation: total marks: 20

Books and references:

1. Post harvest physiology , handling and utilization of tropical and subtropical fruits and
vegetables-E.B.Pantastico, AVI Publishing company, INC
2. Post harvest technology of fruits and vegetables: handling, processing, fermentation and

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ASSAM SCIENCE AND TECHNOLOGY UNIVERSITY
Guwahati

Course Structure and Syllabus
(From Academic Session 2020-21 onwards)

M.Sc IN BIO-PHYSICS (CBCS)

3rd Semester

M.Sc. BIO-PHYSICS

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Course Code	Course Title	Hours per week L-T-P	Credit C
BP202311	Project Work-I	0-0-18	9

PROJECT SUGGESTIONS

Simple group projects (two in a group) submitted even in hand written form (CD form along with hard copy)

Subjects like Biology, Chemistry, Biochemistry and Biophysics may be preferred by the students

Works like:

1. Literature survey and analysis in the above mentioned areas.
2. Based on basic theories and simple experiments
3. Projects from Structural Biology and Bioinformatics
4. Projects using new software from the areas like Structural Biology and Bioinformatics

In addition to this, the Departments have the freedom to select topics of their interest in specialized areas.

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Geography :

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SIXTH SEMESTER
PAPER 606: PROJECT WORK

Total Marks: 75
(Including 10 marks for internal assessment)
Total Credit: 6 (Total Number of Classes: 60)
Time : 3 hours

- A project work shall be assigned to each student by the respective teacher in the Department for preparation of a project report. It should be prepared scientifically with statement of the problem, significance of the problem for study, objectives and methodology including appropriate data collection, processing and analysis methods and chapter plan.
- Evaluation of the project report shall be done as follows:
  Internal Assessment: 10 marks
  Evaluation of the content and quality of the Report : 25 marks
  (Jointly by the external and internal)
  Viva-voce on the Report : 15 marks (by external)
- Theory examination on Methodology: 25 marks
  (to be examined by the external)

Course content :

(i) Problem selection for Project work and development of objectives
(ii) Collection of data : Secondary and primary data and questionnaire preparation
(iii) Developing Sample design
(iv) Data Processing and Analysis Techniques
(v) Data representation techniques in the form of graphs and maps

Books Suggested :

1. Kothari, C.R., 1993: Research Methodology: Methods and Techniques, 2nd Eastern Ltd., New Delhi
2. Mishra, R.P., 1989: Research Methodology: A Hand Book, Concept Publishing, New Delhi
3. Misra, H,N. and Singh, V.P., 1998: Research Methodology in Geography, Concept Publishing, New Delhi.