

Course Code:
BC410T
Core Course X: Plant
Systematics

The objective of this course is to expose the students to identification, classification and nomenclature of higher plants

**(Credits: Theory-4,
Practical-2)**

THEOR
Y

Lectures:
60

Unit 1: Significance of Plant systematics (8 lectures)

Introduction to systematics; Kingdom concept, Plant identification, Classification, Nomenclature. Evidences from palynology, cytology, phytochemistry and molecular data. Field inventory; Functions of Herbarium; Important herbaria and botanical gardens of the world and India; Virtual herbarium; E-flora; Documentation: Flora, Monographs, Journals; Keys: Single access and Multi-access.

Unit 2: Taxonomic hierarchy (6 lectures)

Concept of taxa (family, genus, species); Categories and taxonomic hierarchy; Species concept (taxonomic, biological, evolutionary).

Unit 3: Morphology and Botanical nomenclature (10 lectures)

Angiosperm morphology, Principles and rules (ICN= International Code of Nomenclature of Algae, fungi & Plants); Ranks and names; Typification, author citation, valid publication, rejection of names, principle of priority and its limitations; Names of hybrids.

Unit 4: Systems of classification (10 lectures)

History of Plant Taxonomy: 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 classification.

Unit 5: Biometrics, numerical taxonomy and cladistics (6 lectures)

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

Unit 6: Phylogeny of Angiosperms**(10 lectures)**

Terms and concepts (primitive and advanced, homology and analogy, parallelism and convergence, monophyly, Paraphyly, polyphyly and clades). Origin and evolution of life (mechanism and theories), Origin and evolution of angiosperms; Co-evolution of angiosperms and animals; Methods of illustrating evolutionary relationship (phylogenetic tree, cladogram).

Unit 7: Major families of Angiosperms**(10 lectures)**

Study of morphological characters of some major families of Angiosperms:

Magnoliaceae, Brassicaceae, Malvaceae, Fabaceae, Cucurbitaceae, Apiaceae,

Asteraceae, Lamiaceae,

Euphorbiaceae, Orchidaceae, Zingiberaceae, Arecaceae, Poaceae

Course Code:
BC410T
PRACTICAL
Core Course X: Plant
Systematics

1. Study of vegetative and floral characters of 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):

Locally available plants of the following families-

Magnoliaceae, Brassicaceae, Apiaceae, Asteraceae, Solanaceae,
Lamiaceae, Euphorbiaceae, Zingiberaceae, Orchidaceae, Poaceae

2. Field visit (local) – Subject to grant of funds from the university.
3. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).

CBCS: B. Sc. (Honours) with CHEMISTRY
Discipline Specific Elective (DSE) Course

CHEMISTRY

(Honours)

(6th Semester)

Course No.: CHEMISTRY-DSE-603

Dissertation

(Project Work)

Full Marks-100[Dissertation (80) Internal Assessment (20)]

(Credit-6)

Objective of the Course: To develop the written and verbal communication. To present information in a clear and effective manner, to write report in a scientific style and to solve scientific problems.

Expected Learner Outcome: Students will gain an understanding of: ---

- i. Communication effectively, verbally and written for the purpose of conveying chemical information to both professional scientist and to the public.
- ii. Availability of instrument for conducting specific, scientific research

In this paper students have to carry out project work (Laboratory experiments or Comprehensive Review work on a specified topic) either at their respective colleges or any other R&D laboratory and UGC recognized University under guidance of a faculty member. The student may start their project work during the semester break between fifth and sixth semester.

The area of work is to be decided by the advisor.

On completion of the project work students have to submit the work in the form of a dissertation followed by oral presentation in the presence of faculty member and an external expert.

[Mark Distribution for evaluation of the Project Work

A. Laboratory Experiment

1. Literature Review	5 Marks
2. Objectives	5 Marks
3. Experimental work	25 Marks
4. Results & Discussions	25 Marks
5. Presentation and Viva	<u>20</u> Marks
6. IA	<u>20</u> Marks

B. Comprehensive Review

1. Objective	5 Marks
2. Review	35 Marks

Course Code: ZD607P
FISH AND FISHERIES

PRACTICAL

(Credits 2)

1. Morphometric and meristic characters of fishes
2. Study of *Petromyzon*, *Myxine*, *Pristis*, *Chimaera*, *Exocoetus*, *Hippocampus*, *Sardinella*, *Tenualosa*, *Mugil*, *Gambusia*, *Labeo*, *Heteropneustes*, *Anabas*
3. Study of different types of scales (through permanent slides/ photographs).
4. Study of crafts and gears used in Fisheries
5. Water quality criteria for Aquaculture: Assessment of pH, conductivity, Total solids, Total dissolved solids
6. Study of air breathing organs in *Channa*, *Heteropneustes*, *Anabas* and *Clarias*
7. Demonstration of induced breeding in Fishes (video)
8. Demonstration of parental care in fishes (video)
9. Project Report on a visit to any fish farm/ pisciculture unit/Zebrafish rearing Lab.

SUGGESTED READINGS

- Q Bone and R Moore, Biology of Fishes, Talyor and Francis Group, CRC Press, U.K.
- D. H. Evans and J. D. Claiborne, The Physiology of Fishes, Taylor and Francis Group, CRC Press, UK von der Emde, R.J. Mogdans and B.G. Kapoor. The Senses of Fish: Adaptations for the Reception of Natural Stimuli, Springer, Netherlands
- C.B.L. Srivastava, Fish Biology, Narendra Publishing House
- J.R. Norman, A history of Fishes, Hill and Wang Publishers
- S.S. Khanna and H.R. Singh, A text book of Fish Biology and Fisheries, Narendra Publishing House

Course Code: ZC613P
DEVELOPMENTAL BIOLOGY

PRACTICALS

(CREDITS 2)

1. Study of whole mounts and sections of developmental stages of frog through permanent slides: Cleavage stages, blastula, gastrula, neurula, tail-bud stage, tadpole (external and internal gill stages)
2. Study of whole mounts of developmental stages of chick through permanent slides: Primitive streak (13 and 18 hours), 21, 24, 28, 33, 36, 48, 72, and 96 hours of incubation (Hamilton and Hamburger stages)
3. Study of the developmental stages and life cycle of *Drosophila* from stock culture
4. Study of different sections of placenta (photomicrograph/ slides)
5. Project report on *Drosophila* culture/chick embryo development

GE VI: FOOD, NUTRITION AND HEALTH

PRACTICAL

(Credits 2)

1. Estimation of Lactose in milk
2. Ascorbic acid estimation in food by titrimetry
3. Estimation of Calcium in foods by titrimetry
4. Study of the stored grain pests from slides/ photograph(*Sitophilus oryzae*, *Trogoderma granarium*, *Callosobruchus chinensis* and *Tribolium castaneum*): their identification, habitat and food sources, damage caused and control. Preparation of temporary mounts of the above stored grain pests.
5. Project- Undertake computer aided diet analysis and nutrition counseling for different age groups.

OR

Identify nutrient rich sources of foods (**fruits and vegetables**), their seasonal availability and price

OR

Study of nutrition labeling on selected foods

GE IV: ENVIRONMENT AND PUBLIC HEALTH**THEORY****(Credits 4)****UNIT I: Introduction****12**

Sources of Environmental hazards, hazard identification and accounting, fate of toxic and persistent substances in the environment, dose Response Evaluation, exposure Assessment.

UNIT II Climate Change**10**

Greenhouse gases and global warming, Acid rain, Ozone layer destruction, Effect of climate change on public health

Unit III Pollution**10**

Air, water, noise pollution sources and effects, Pollution control

Unit IV Waste Management Technologies**18**

Sources of waste, types and characteristics, Sewage disposal and its management, Solid waste disposal, Biomedical waste handling and disposal, Nuclear waste handling and disposal, Waste from thermal power plants, Case histories on Bhopal gas tragedy, Chernobyl disaster, Seveso disaster and Three Mile Island accident and their aftermath.

Unit 5 Diseases**10**

Causes, symptoms and control of tuberculosis, Asthma, Cholera, Minamata disease, typhoid

GE VI: FOOD, NUTRITION AND HEALTH

THEORY	(Credits 4)
Unit 1: Basic concept of food and nutrition	10
Food Components and food-nutrients	
Concept of a balanced diet, nutrient needs and dietary pattern for various groups-adults, pregnant and nursing mothers, infants, school children, adolescents and elderly	
Unit 2: Nutritional Biochemistry:	20
Carbohydrates, Lipids, Proteins- Definition, Classification, their dietary source and role	
Vitamins- Fat-soluble and Water-soluble vitamins- their dietary source and importance	
Minerals- Iron, calcium, phosphorus, iodine, selenium and zinc: their biological functions	
Unit 3: Health	15
Introduction to health- Definition and concept of health	
Major nutritional Deficiency diseases- Protein Energy Malnutrition (kwashiorkor and marasmus), Vitamin A deficiency disorders, Iron deficiency disorders, Iodine deficiency disorders- their causes, symptoms, treatment, prevention and government programmes, if any.	
Life style related diseases- hypertension, diabetes mellitus, and obesity- their causes and prevention through dietary and lifestyle modifications	
Social health problems- smoking, alcoholism, drug dependence and Acquired Immuno Deficiency Syndrome (AIDS) - their causes, treatment and prevention	
Common ailments- cold, cough, and fevers, their causes and treatment	
Unit 4: Food hygiene:	15
Potable water- sources and methods of purification at domestic level	
Food and Water borne infections: Bacterial infection: Cholera, typhoid fever, dysentery; Viral infection: Hepatitis, Poliomyelitis, Protozoan infection: amoebiasis, giardiasis; Parasitic infection: taeniasis and ascariasis their transmission, causative agent, sources of infection, symptoms and prevention	
Brief account of food spoilage: Causes of food spoilage and their preventive measures	

Course Code: ZD504P
BIOLOGY OF INSECTA

PRACTICAL

(CREDITS 2)

1. Study of one specimen from each insect order
2. Study of different kinds of antennae, legs and mouth parts of insects
3. Study of head and sclerites of any one insect
4. Study of insect wings and their venation.
5. Prepare permanent slide of insect spiracles
6. Methodology of collection, preservation and identification of insects.
7. Morphological studies of various castes of *Apis*, and *Odontotermes*
8. Study of any three insect pests and their damages
9. Study of any three beneficial insects and their products

Field study of insects and submission of a project report on the insect diversity

Course Code: ZD501P
ANIMAL BEHAVIOUR AND CHRONOBIOLOGY

PRACTICAL

(Credits 2)

1. To study nests and nesting habits of the birds and social insects.
2. To study the behavioural responses of wood lice to dry and humid conditions.
3. To study geotaxis behaviour in earthworm.
4. To study the phototaxis behaviour in insect larvae.
5. Visit to Forest/ Wild life Sanctuary/Biodiversity Park/Zoological Park to study behavioural activities of animals and prepare a short report.
6. Study of circadian functions in humans (daily eating, sleep and temperature patterns).

Course Code: ZC102T
CORE COURSE II:
PRINCIPLES OF ECOLOGY

**The objective of the course is to familiarize the students with fundamentals of ecology and impacts of ecological factors on living organisms.*

THEORY **(Credits 4)**

Unit 1: Introduction to Ecology **6**

History of ecology, Autecology and synecology, Levels of organization, Laws of limiting factors, Study of abiotic factors

Unit 2: Population **24**

Unitary and Modular populations

Unique and group attributes of population: Density, natality, mortality, life tables, fecundity tables, survivorship curves, age ratio, sex ratio, dispersal and dispersion

Exponential and logistic growth, equation and patterns, r and K strategies

Population regulation - density-dependent and independent factors

Population interactions, Gause's Principle with laboratory and field examples, Lotka-Volterra equation for competition and Predation, functional and numerical responses

Unit 3: Community **12**

Community characteristics: species richness, dominance, diversity, abundance, vertical stratification, Ecotone and edge effect; Ecological succession with hydrosere

Theories pertaining to climax community

Unit 4: Ecosystem **14**

Types of ecosystems with one example in detail (Forest ecosystem), Food chain: Detritus and grazing food chains, Linear and Y-shaped food chains, Food web, Energy flow through the ecosystem, Ecological pyramids and Ecological efficiencies

Nutrient and biogeochemical cycle with Nitrogen cycle as an example

Human modified ecosystem

Unit 5: Applied Ecology **4**

Concept of wildlife conservation (Usefulness, causes and consequences of degradation); Management strategies

Course Code: ZC102P
PRINCIPLES OF ECOLOGY

PRACTICALS

(Credits 2)

1. Study of life tables and plotting of survivorship curves of different types from the hypothetical/real data provided
2. Determination of population density in a natural/hypothetical community by quadrat method and calculation of Shannon-Weiner diversity index for the same community
3. Study of an aquatic ecosystem: Phytoplankton and zooplankton, Measurement of area, temperature, turbidity/penetration of light, determination of pH, and Dissolved Oxygen content (Winkler's method) and free CO₂
4. Report on a visit to National Park/Biodiversity Park/Wild life sanctuary/Reserved forest

Course Code: ZC101P

NON-CHORDATES I: PROTISTS TO PSEUDOCOELOMATES

PRACTICALS

(Credits 2)

1. Study of whole mount of *Euglena*, *Amoeba* and *Paramecium*, Binary fission and Conjugation in *Paramecium*
2. Examination of pond water collected from different places for diversity in Animal protista (Protozoa)
3. Study of *Sycon* (T.S. and L.S.), *Hyalonema*, *Euplectella*, *Spongilla*
4. Identification of museum specimen: *Obelia*, *Physalia*, *Millepora*, *Aurelia*, *Tubipora*, *Corallium*, *Alcyonium*, *Gorgonia*, *Metridium*, *Pennatula*, *Fungia*, *Meandrina*, *Madrepora* and One specimen/slide of any ctenophore
5. Study of adult *Fasciola hepatica*, *Taenia solium* and their life cycles (Slides/micro-photographs)
6. Study of adult *Ascaris lumbricoides* and its life stages (Slides/micro-photographs)
7. To submit a Project Report on any related topic based on theory syllabus.

Course Code: HSCH -CC 6104

Course Title: SOCIO ECONOMIC ENVIRONMENT (P)

Nature of the Course: Core (Practical)

Total Credit: 2

Part 1 Practical (project)

- | | |
|---|----|
| <input type="checkbox"/> Changing family trends. | 5 |
| <input type="checkbox"/> Individuals facing Conflicts and consensus in society. | 5 |
| <input checked="" type="checkbox"/> Changing status and roles in varied spaces in family, work the elderly and its implication on the individual and society across cultures. | 2 |
| <input checked="" type="checkbox"/> Experiences of exclusion on the individual: caste, minority, disability, violence, immigration | 3 |
| <input checked="" type="checkbox"/> Religion and Culture | 2 |
| <input type="checkbox"/> <u>Case studies, narratives, films, fieldtrips to different regions/communities like tribal/rural/urban (any one method)</u> | 10 |

Course Code: HSCH –CC 2104

Course Title: DYNAMICS OF COMMUNICATION AND EXTENSION (P)

Nature of the Course: Core (Practical)

Total Credit: 2

PRACTICAL

- | | |
|---|----|
| 1. <u>Developing skills in planning and conducting small group communication.</u> | 20 |
| 2. Review of media on selected issues | 10 |
| 3. Design and use of graphic media /computer aided aids | 10 |

RECOMMENDED READINGS

- Barker, L. (1990). "Communication", New Jersey: Prentice Hall, Inc; 171.

Course Code: HSCH-CC 4106
Course Title: FASHION DESIGN CONCEPTS (P)

Nature of the Course: Core (Practical)

Total Credit: 2

PRACTICAL

- | | |
|---|----|
| 1. Flat sketching of garment components | 10 |
| 2. Identification of garment components | 10 |
| 3. Interpretation of elements and principles of design concepts from print and visual mediums | 8 |
| 4. ^{Field and} Study of collections of famous designers / designs | 12 |

RECOMMENDED READINGS:

- Brown, Patty, Rice J., 1998, Ready to Wear Apparel Analysis. Prentice Hall.
- Marshall S G, Jackson H O, Stanley MS, Kefgen M & Specht T, 2009, Individuality in Clothing & Personal Appearance, 6th Edition, Pearson Education, USA.
- Tate S.L., Edwards MS., 1982, The Complete Book of Fashion Design, Harper and Row Publications, New York.

Rajasthan , Ajarakh prints of Gujarat

Dyed textiles-Bandhnis of Rajasthan and Gujarat, Ikats- Patola of Gujarat,
Bandhas of Orissa, Telia Rumal

Unit 2: Conservation of Traditional Textiles

Factors influencing degradation of textiles 15

Care and storage techniques

Unit 3: Status of Traditional Textiles in Modern India

Evolution and socio-economic significance of Khadi, Handloom and Handicraft sector 15

Sustenance of traditional textile crafts

Interventions by organizations

Course Code: HSCH – DSE 1106

Course Title: INDIAN TEXTILE HERITAGE (P)

Nature of the Course: DSE (Practical)

Total Credit: 2

PRACTICAL

1. Traditional Embroideries	6
2. Tie and dye	6
3. Batik	6
4. Block printing	6
5. Portfolio and product development	6
6. <u>Visit to craft/ Handloom center</u>	10

Recommended Readings:

1. Agarwal, O.P., 1977, Care and Presentation of Museum projects – II, NRL
2. Chattopadhaya, K.D., 1995, Handicrafts of India, Wiley Eastern Limited, N Delhi
3. Das, Shukla, 1992, Fabric Art- Heritage of India, Abhinav Publications, N Delhi
4. Chetia, S. 2006. The Assamese handloom and textile tradition, Digboi Mahila Mahavidyalaya, Digboi

□ Elements of design: Line, Shape and form, Space, Pattern, Texture, Light, Color 20

□ Principles of design: Balance, Harmony, Scale, Proportion, Rhythm, Emphasis

Unit: III Introduction to components of Interior Design 20

□ Surface in Interior: wall finishes, floor finishes, ceiling finishes

□ Types of Furniture and furnishings

□ Types of accessories

Unit: IV Introduction to Hospitality Industry 20

□ Importance & functions of housekeeping department in hospitality industry

□ Functions and management of Food Service Department

□ Introduction to front office department and personal management

□ The functions of linen room and laundry

□ Introduction to travel and tourism

Course Code: HSCH – DSE 1122

Course Title: BASICS OF INTERIOR DESIGN AND HOSPITALITY MANAGEMENT

(P)

Nature of the Course: DSE (Practical)

Total Credit: 2

PRACTICAL

1. Making drawing sheet on the following
a) Types of lines 4
b) Patterns
c) Textures
d) Color
2. Designs-Types 4
3. Making Accessories: Application of elements and principles of design in creating 3
4. Visit to Architect Offices/ Interior Designs/ Sites/ ongoing completed projects 10
Exhibitions/House design by project.
5. Demonstration on flower arrangement in relation to hospitality industry 3
6. Demonstration on Napkin folding 3
7. Demonstration on Table setting in Restaurants & Banquettes. 3
8. Visit to hotels for providing exposure to various departments of hotels to documents records functions or Collect information regarding places of tourist interest from various states of India.

GEOGRAPHY HONOURS 6TH SEMESTER SYLLABUS

Course C14

GGRM602T6: DISASTER MANAGEMEN

48 Lectures

(The main objective of this paper is to make the students aware about the concepts of hazards, disasters, risk and vulnerability. In this paper an attempt has been made to prepare the students about the Do's And Don'ts during and post disaster.)

Title	Units	L	T	Teacher
DISASTER MANAGEMENT	1. Disasters: Definition and Concepts: Hazards, Disasters; Risk and Vulnerability; Classification	6	2	LS
	2. Disasters in India: Flood, Landslide, Drought, Earthquake and Tsunami, Cyclone, : Causes, Impact and Distribution	10	6	
	3. Manmade disasters: Causes, Impact and Distribution	6	2	
	4. Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM;Indigenous Knowledge and Community-Based Disaster Management; Do's and Don'ts During and Post Disasters	10	6	



Course C14

GGRM602P6: DISASTER MANAGEMENT BASED PROJECT WORK 20Lectures

(The main objective of the field work is to conduct an extensive survey over an area to evaluate the nature, intensity, frequency and impact of a Hazard/ disaster and suggesting possible mitigation measures)

Contents	Lec	T	P	Teacher
Field Work (Flood, Landslide, Drought, Earthquake, Cyclone and Manmade Disaster)	4		16	LS

Core Course 14
RESEARCH METHODS II

Objective: The course is an introductory course on how research is actually done. With emphasis on formulating research design, methods of data collection, and data analysis, it will provide students with some elementary knowledge on how to conduct both, quantitative and qualitative research.

Outline: 1. Doing Social Research (weeks 1-4)

1.1 The Process of Social Research

- (a) Steps of Social Research
- (b) Research Design

1.2 Concepts ,Hypothesis, Research Questions

1.3 Field (Issues and Context)

1.4 Sampling

2. Methods of Data Collection (Weeks 5-9)

2.1 Survey Methods: Sampling, Questionnaire and Interview

2.2 Observation: Participant and non-participant

3. Quantitative and Qualitative Data Analysis (weeks 10-13)

3.1 Quantitative – Statistical Method

3.1.1 Statistical Methods:

Graphical and Diagrammatic Presentation of Data
(Bar diagrams, Pie-diagram, Histogram, Frequency Polygon,
Smoothed frequency curve and Ogives).

3.1.2 Measures of Central Tendency

(Simple Arithmetic Mean, Median and Mode).

3.1.3 Measures of Dispersion

(Standard Deviation, Variance and Covariance).

3.2. Quantitative : Content Analysis, Case Study, Focused Group Discussion.

4. Research Projects (Weeks 14)

Field Visit and Report submission

COURSE CONTENTS AND ITINERARY

1.1 Doing Social Research (Weeks 1-4)

1.1.1 Bailey, K. (1994). The Research Process in *Methods of social research*. Simon and Schuster, 4th ed. The Free Press, New York NY 10020. Pp.3-19.

1.2 Concepts and Hypothesis

1.2.1 Goode, W. E. and P. K. Hatt. 1952. *Methods in Social Research*. New York: McGraw Hill. Chapters 5 and 6. Pp. 41-73.

1.3 Field (Issues and Contexts)

1.3.1 Gupta, Akhil and James Ferguson. 1997. *Anthropological Locations*. Berkeley: University of California Press. Pp.1-46.

1.3.2 Srinivas, M.N. et al 2002(reprint), *The Fieldworker and the Field: Problems and Challenges in Sociological Investigation*, New Delhi: OUP, Introduction Pp. 1-14.

2.1 Survey Methods of Data Collection (Weeks 5-9)

2.1.1 Bailey, K. (1994). Survey Sampling in *Methods of social research*. Simon and Schuster, 4th ed. The Free Press, New York NY 10020. Ch-5. Pp. 81-104.

2.1.2 Bailey, K. (1994). Questionnaire Construction and The Mailed Questionnaire in *Methods of social research*. Simon and Schuster, 4th ed. The Free Press, New York NY 10020. Chs-6 and 7. Pp. 105-172.

2.1.3 Bailey, K. (1994). Interview Studies in *Methods of social research*. Simon and Schuster, 4th ed. The Free Press, New York NY 10020. Ch8. Pp.173-213.

2.2 Observation : Participant and non-Participant

2.2.1 Bailey, K. (1994). Observation in *Methods of social research*. Simon and Schuster, 4th ed. The Free Press, New York NY10020. Ch 10. Pp.241-273.

2.2.2 Whyte, W. F. 1955. *Street Corner Society*. Chicago: University of Chicago Press. Appendix.

3. Statistical Methods

3.1 Graphical and Diagrammatic presentation of data (Weeks 10-13)

3.1.1 Gupta, S. P. (2007). Elementary Statistical Methods. Sultan Chand & Sons. Pp.101-108, 115-118, 131-137.

3.2 Measures of Central Tendency

3.2.1 Gupta, S. P. (2007). Elementary Statistical Methods. Sultan Chand & Sons. Pp. 155-168, 173-180, 187-197.

3.3 Measures of Dispersion

3.3.1 Gupta, S. P. (2007). Elementary Statistical Methods. Sultan Chand & Sons. Pp. 263-277.

4. Research Projects (Week 14)

No Specific readings for this section. Research Projects at the discretion of the teacher.

Note: Numericals to be taught for individual, discrete and continuous series for the topics mentioned above. No specific method for calculating the same be specified

**SYLLABUS OF THE UG PROGRAMME IN EDUCATION
DIBRUGARH UNIVERSITY
B.A. IN EDUCATION (HONOURS)
DSEED604: PROJECT REPORT
CREDIT: 6
[MARKS: 100 (IN-SEMESTER: 20; END-SEMESTER: 80)]**

Expected Learning Outcome: *After completion of this course, the student will be able to :*

1. explain the process of conducting a Project.
2. identify the problems for Educational Project.
3. solve problems faced in educational field through project.
4. prepare a project report.

Unit	Content	Marks	L	P	T
I	1.0 Introduction to the Project 1.1 Concept of Project 1.2 Characteristic of a good project 1.3 Steps of conducting a project <ul style="list-style-type: none"> • Identification of Problem • Formulation of Objective • Preparation of Tools: Questionnaire, Rating Scale, Interview Schedule, Check list etc. • Selection of Sample • Collection of Data • Analysis and interpretation of data • Report Writing 1.4 Challenges of conducting a Project		10		

	<i>(The teacher will have to take theory classes on the topics assigned in this unit)</i>				
II	<p>2.0 Preparation of Project report: The student shall have to conduct a project under the supervision of a teacher and submit a project report consisting of the following:</p> <ul style="list-style-type: none"> • Title of the Project • Introduction • Rationale of the study • Objectives of the Study • Method and procedures followed (Description of the tools and techniques used, procedure of Collection of Data and procedure of analysis of data) • Analysis and Interpretation of data with illustrations • Findings of the study <p><i>(The teacher shall provide guidance to the students throughout the Project.)</i></p>		5		
	Total				

In-semester Assessment:

- **Conducting the project and preparing the report**
- **Sessional Tests on the content of the first unit:**
- **Attendance:**

Marks 20

Marks 5

Marks 10

Marks 5

End-Semester Assessment:

80

The end-semester assessment will be based on the project report and *viva voce*. The assessment will be carried out by a team of examiners consisting of at-least one external examiner and one internal examiner. The distribution of marks will be as follows:

- **Project report: 60**
- **Viva Voce: 20**

Suggested Readings:

1. Best, J.W. & Kahn, J.V. : *Research in Education*, Prentice Hall of India Pvt. Ltd., New Delhi.
2. Garrett, H.E. : *Statistics in Psychology and Education*, Vakils, Feffer and Simons Ltd., Hague Bulding, 9 Sprott Road, Ballard Estate, Bombay-400038
3. Koul, L. : *Methodology of Educational Research*, Vikas Publishing House Pvt. Ltd., New Delhi
4. Sidhu, K.S. : *Methodology of Educational Research*, Sterling Publishers Pvt. Ltd., New Delhi
5. Singh, A.K.: *Tests, Measurements and Research Methods in Behavioural Science*, Bharati Bhavan, Thakurbari Road, Kadamkuan, Patna- 800003

4. SUBJECT: ENTREPRENEURSHIP DEVELOPMENT

Course Title: Entrepreneurship Development-I

Course Code: SEC-1

Credit: 2

Total Marks: 50 (10 for Internal Assessment & 40 for End Semester Examination)

Unit – I : The Entrepreneur:

1.5 Definitions

1.6 Who is an entrepreneur?

1.7 Functions of an Entrepreneur

10

Unit – II : Entrepreneur and Entrepreneurship: 2.1 Entrepreneur vs. Manager

2.3 Traits of entrepreneurs

2.4 Entrepreneur and enterprise

10

Unit – III : Theories of Entrepreneurship:

3.1 Theories of Entrepreneurial origin

3.2 Theory of Invisible cost

3.3 Theory of Transition cost.

15

Unit – IV : Entrepreneurial Development Programmes in India:

4.1 Relevance and achievements*

4.2 Role of Government*

4.3 Role of NGOs.*

15

* The discussion should be with special reference to North East India in general and Assam in particular.

Suggested Reading:

1. Khanka S.S. : Entrepreneurial Development, S.Chand & Company, New Delhi.
2. Desai Vasant : Dynamics of Entrepreneurial Development, Himalaya Publishing House, Mumbai.
3. Bezborah P. & Barman M.C. : Udyamita Bikas. Ashok Book Stall, Panbazar Guwahati

Course Title: Entrepreneurship Development-II

Course Code: SEC-II

Credit: 2

Total Marks: 50 (10 for Internal Assessment & 40 for End Semester Examination)

Unit – I : Promotional Agencies

- 1.1 Types of Entrepreneurial Development Promotional Agencies
- 1.2 Ideologies of these agencies
- 1.3 Governmental vs Non governmental Agencies 10

Unit – II : Institutional Support:

- 2.1 Micro, Small and Medium Enterprises Development Organization (MSMEDO)
- 2.2 Micro, Small and Medium Enterprises Development Institution (MSMEDI)
- 2.3 District Industries and Commerce Centre (DICC)
- 2.4 Khadi and Village Industries Commission/Board (KVIC/KVIB) 20

Unit – III : Role of other Supporting Institutions:

- 3.1 NEDFi*
- 3.2 SIDBI/IDBI*
- 3.3 IIE* 3.4 Micro Finance Institutions* 20

* The discussion should be with special reference to North East India in general and Assam in Particular.

Suggested Reading:

1. Khanka S.S. : Entrepreneurial Development, S.Chand & Company, New Delhi.
2. Desai Vasant : Dynamics of Entrepreneurial Development, Himalaya Publishing House, Mumbai.
3. Bezborah P. & Barman M.C. : Udyamita Bikas. Ashok Book Stall, Panbazar Guwahati
