



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Agriculture
B.Sc. (Hons) Agriculture (Batch 2019-23)

BAG 201: Fundamentals of Genetics

Course Code	Course Name	TEACHING & EVALUATION SCHEME							
		THEORY			PRACTICAL		L	P	CREDITS
		END SEM University Exam	Two term exam*	Teachers Assessment*	END SEM University Exam	Teachers Assessment*			
BAG201	FUNDAMENTALS OF GENETICS	50	30	00	15	05	2	1	3

Legends: L - Lecture; P – Practical; C-Credit;

***Teacher Assessment** shall be based on following components: Quiz / Assignment / Project / Participation in Class,

Course Objectives

1. To study the genetics concept in crops

Course Outcomes

1. Student will able to understand structural and functional aspect of heredity material in crops
2. Student will able to understand cell and cell cycle for the improvement of crop

Unit-1

Pre and Post Mendelian concepts of heredity, Mendelian principles of heredity. Architecture of chromosome; chromonemata, chromosome matrix, chromomeres, centromere, secondary constriction and telomere; special types of chromosomes.

Unit-2

Chromosomal theory of inheritance –cell cycle and cell division –mitosis and meiosis.Probability and Chi-square.Dominance relationship, Epistatic interactions with example.

Unit-3

Multiple alleles, pleiotropism and pseudoalleles, Linkage and it`s estimation, crossing over mechanisms , chromosome mapping. Structural and numerical variations in chromosome and their implications.

Unit-4

Use of haploids, dihaploids and doubled haploids in Genetics. Mutation classification, Methods of inducing mutations & CIB technique, mutagenic agents and induction of mutation.Qualitative and Quantitative traits, Polygenes and continuous variations, multiple factor hypothesis, Cytoplasmic inheritance.



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Unit-5

Nature, structure and replication of genetic material. Protein synthesis, transcription and translational mechanism of genetic material. Gene concept :Gene structure, function and regulation, Lac and Trp operons

Practical: BAGL 201

Study of microscope, Study of cell structure. Mitosis and Meiosis cell division. Experiments on monohybrid, dihybrid, trihybrid, testcross and back cross, Experiments on epistatic interactions including test cross and back cross, Practice on mitotic and meiotic cell division, Experiments on probability and Chi-square test. Determination of linkage and cross over analysis (through two point test cross and three point test cross data. Study of models on DNA and RNA structures.

Books:

1. B. D. Singh .*Plant Breeding – Principles and methods*. Kalyani Publishers New Delhi.
2. Phunadan Singh. *Essentials of Plant Breeding*. Kalyani publisher new Delhi.
3. Chopra, V.L. .*Plant breeding theory and practice*. Oxford and IBH Publishing Co. PVT. Ltd.
4. Allard, R. .*Principles of plant breeding*. John Wiley and Sons , New Delhi.
5. J. R. Sharma. *Principles and Practices of Plant Breeding*. Tata McGraw-Hill publishing Co., New Delhi



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BAG 202: AGRICULTURAL MICROBIOLOGY

Course Code	Course Name	TEACHING & EVALUATION SCHEME							
		THEORY			PRACTICAL		L	P	CREDITS
		END SEM University Exam	Two term exam* teachers Assessment ^{†*}		END SEM University Exam teachers Assessment ^{†*}				
BAG202	AGRICULTURAL MICROBIOLOGY	50	30	00	15	05	1	1	2

Legends: L - Lecture; P – Practical; C-Credit; ***Teacher Assessment** shall be based on following components: Quiz / Assignment / Project / Participation in Class,

Course Objective: Basic knowledge of microbes

Course Outcomes

1. Student will able to understand importance of microbiology in crop improvement
2. Student will able to understand importance of microbes in crop production

Unit-1:

Introduction. Microbial world: Prokaryotic and eukaryotic microbes. Bacteria: cell structure, chemoautotrophy, photo autotrophy, growth.

Unit-2:

Bacterial genetics: Genetic recombination-transformation, conjugation and transduction, plasmids, transposon.

Unit-3

Role of microbes in soil fertility and crop production: Carbon, Nitrogen, Phosphorus and Sulphur cycles. Biological nitrogen fixation- symbiotic, associative and asymbiotic.

Unit-4

Azolla, blue green algae and Mycorrhiza. Rhizosphere and phyllosphere.

Unit-5

Microbes in human welfare: silage production, biofertilizers, biopesticides, biofuel production and biodegradation of agro-waste.

BAGL 202: Practical

Introduction to microbiology laboratory and its equipments; Microscope- parts, principles of microscopy, resolving power and numerical aperture. Methods of sterilization. Nutritional media and their preparations. Enumeration of microbial population in soil- bacteria, fungi, actinomycetes. Methods of isolation and purification of microbial cultures. Isolation of *Rhizobium* from legume root nodule. Isolation of *Azotobacter* from soil. Isolation of *Azospirillum* from roots. Isolation of BGA. Staining and microscopic examination of microbes.

Books:

1. Microbiology. Pelczar, J.r.,M.J.E.C.S.Chan and Krieg, N.R.(5th Ed.) 2015. McGraw Hill Publishers, New York.
2. Brock Biology of Microorganisms. Madigan, M.,Martinko, J.M. and Parker, J. (14 Ed.) 2015. Prentice Hall of India Pvt. Ltd., New Delhi

BAG 203: SOIL ANDWATER CONSERVATIONENGINEERING



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Course Code	Course Name	TEACHING & EVALUATION SCHEME								
		THEORY			PRACTICAL			L	P	CREDITS
		END SEM University Exam	Two term exam*	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BAG203	Soil And Water Conservation Engineering	50	30	00	15	05	1	1	2	

Legends: L - Lecture; P – Practical; C-Credit;

***Teacher Assessment** shall be based on following components: Quiz / Assignment / Project / Participation in Class,

Course Objective: Basic knowledge of Engineering of soil and water conservation

Course Outcomes

1. Student will able to understand reason of soil and water loss
2. Student will able to understand technique to conserve water and soil

Unit-1:

Introduction to Soil and Water Conservation causes of soil erosion. Definition and agents of soil erosion, water erosion: Forms of water erosion.

Unit-2:

Gully classification and control measures. Soil loss estimation by universal Loss Soil Equation.

Unit-3

Soil loss measurement techniques. Principles of erosion control: Introduction to contouring, strip cropping.

Unit-4

Contour bund. Graded bund and bench terracing. Grassed water ways and their design. Water harvesting and its techniques.

Unit-5

Wind erosion: mechanics of wind erosion, types of soil movement. Principles of wind erosion control and its control measures

BAGL 203: Practical

General status of soil conservation in India. Calculation of erosion index. Estimation of soil loss. Measurement of soil loss. Preparation of contour maps. Design of grassed water ways. Design of contour bunds. Design of graded bunds. Design of bench terracing system. Problem on wind erosion.

Books:

1. Ghanashyam Das, 2012. Hydrology and soil conservation Engineering, including watershed management. Second edition, PHI Learning Pvt. Ltd., New Delhi
2. Murthy, V.V.N. 2004. Land and Water Management Engineering, Kalyani Publishers, New Delhi
3. Micheal, A.M. 2007. Irrigation Theory and Practice. Second edition. Vikas Publishing House, Pvt. Ltd.

BAG 204: FUNDAMENTALS OF CROP PHYSIOLOGY



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		THEORY			PRACTICAL		L	P	CREDITS
		END SEM University Exam	Two term exam*	Teachers Assessment†*	END SEM University Exam	Teachers Assessment†*			
BAG204	Fundamentals Of Crop Physiology	50	30	00	15	05	1	1	2

Legends: L - Lecture – Practical; C-Credit;

***Teacher Assessment** shall be based on following components: Quiz / Assignment / Project / Participation in Class,

Course Objective: Basic knowledge of Plant physiology

Course Outcomes

2. Student will able to understand physiological aspect in crop improvement
3. Student will able to understand different physiological reaction in agricultural crops

Unit-1:

Introduction to crop physiology and its importance in Agriculture; Plant cell: an Overview; Diffusion and osmosis;

Unit-2:

Absorption of water, transpiration and Stomatal Physiology; Mineral nutrition of Plants: Functions and deficiency symptoms of nutrients, nutrient uptake mechanisms;

Unit-3

Photosynthesis: Light and Dark reactions, C₃, C₄ and CAM plants;

Unit-4

Respiration: Glycolysis, TCA cycle and electron transport chain; Fat Metabolism: Fatty acid synthesis and Breakdown;

Unit-5

Plant growth regulators: Physiological roles and agricultural uses, Physiological aspects of growth and development of major crops: Growth analysis, Role of Physiological growth parameters in crop productivity.

BAGL 204: Practical

Study of plant cells, structure and distribution of stomata, imbibitions, osmosis, plasmolysis, measurement of root pressure, rate of transpiration, Separation of photosynthetic pigments through paper chromatography, Rate of transpiration, photosynthesis, respiration, tissue test for mineral nutrients, estimation of relative water content, Measurement of photosynthetic CO₂ assimilation by Infra Red Gas Analyser (IRGA).

Books:

1. Taiz, L. and zeiger, E. 2010. Plant Physiology 5th edition, Sinauer Associates, Sunderland, MA, USA. Gardner, F.P., Pearce, R.B., and Mitchell, R.L. 1985. Physiology of Crop Plants, Scientific Publishers, Jodhpur.



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BAG 205: FUNDAMENTALS OF AGRICULTURAL ECONOMICS

Course Code	Course Name	TEACHING & EVALUATION SCHEME							
		THEORY			PRACTICAL		L	P	CREDITS
		END SEM University Exam	Two term exam*	Teachers Assessment*	END SEM University Exam	Teachers Assessment*			
BAG205	Fundamentals Of Agricultural Economics	50	40	10	00	00	2	0	2

Legends: L - Lecture – Practical; C-Credit;

***Teacher Assessment** shall be based on following components: Quiz / Assignment / Project / Participation in Class,

Course Objective: Basic knowledge of Agricultural Economics

Course Outcomes

4. Student will able to understand concept of Economics in agricultural development

Unit-1:

Economics: Meaning, scope and subject matter, definitions, activities, approaches to economic analysis; micro and macro economics, positive and normative analysis. Nature of economic theory; rationality assumption, concept of equilibrium, economic laws as generalization of human behavior. Basic concepts: Goods and services, desire, want, demand, utility, cost and price, wealth, capital, income and welfare.

Unit-2:

Agricultural economics: meaning, definition, characteristics of agriculture, importance and its role in economic development. Agricultural planning and development in the country. *Demand:* meaning, law of demand, schedule and demand curve, determinants, utility theory; law of diminishing marginal utility, equi-marginal utility principle. Consumer's equilibrium and derivation of demand curve, concept of consumer surplus.

Unit-3

Elasticity of demand: concept and measurement of price elasticity, income elasticity and cross elasticity. Production: process, creation of utility, factors of production, input output relationship. *Laws of returns:* Law of variable proportions and law of returns to scale. *Cost:* concepts, short run and long run cost curves. Supply: Stock v/s supply, law of supply, schedule, supply curve, determinants of supply, elasticity of supply. Market structure: meaning and types of market, basic features of perfectly competitive and imperfect markets.

Unit-4

Price determination under perfect competition; short run and long run equilibrium of firm and industry, shut down and break even points. Distribution theory: meaning, factor market and pricing of factors of production. Concepts of rent, wage, interest and profit. *National income:* Meaning and importance, circular flow, concepts of national income accounting and approaches to measurement, difficulties in measurement. Population: Importance, Malthusian and Optimum population theories, natural and socio-economic determinants, current policies and programmes on population control.



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Unit-5

Money: Barter system of exchange and its problems, evolution, meaning and functions of money, classification of money, supply, general price index, inflation and deflation. Banking: Role in modern economy, types of banks, functions of commercial and central bank, credit creation policy. Agricultural and public finance: meaning, micro v/s macro finance, need for agricultural finance, public revenue and public expenditure. *Tax*: meaning, direct and indirect taxes, agricultural taxation, VAT. *Economic systems*: Concepts of economy and its functions, important features of capitalistic, socialistic and mixed economies, elements of economic planning.

Books:

1. Dewett,K.K. and Varma, J.D.2003.Elementary Economic Theory. S.Chand and Co, New Delhi
2. Dewett,K.K. and Chand,A.2009. Modern Economic Theory. S.Chand and Co, New Delhi
3. Paul A. Samuelson and Nordhus.2010. Economics. 19th Edition, Tata-Mac Graw Hill Education, New Delhi
4. Jhingan,M.L. 1990. Advanced Economic Theory. Vikas Publishing House, New Delhi



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BAG 206: FUNDAMENTALS OF PLANT PATHOLOGY

Course Code	Course Name	TEACHING & EVALUATION SCHEME							
		THEORY			PRACTICAL		L	P	CREDITS
		END SEM University Exam	Two term exam*	Teachers Assessment t*	END SEM University Exam	Teachers Assessment t*			
BAG206	FUNDAMENTALS OF PLANT PATHOLOGY	50	30	00	15	05	3	1	4

Legends: L - Lecture; P - Practical; C-Credit;

***Teacher Assessment** shall be based on following components: Quiz / Assignment / Project / Participation in Class,

Course Objective: Basic knowledge of plant pathology

Course Outcomes

1. Student will able to understand importance of microbiology for the crop improvement
2. Student will able to understand different diseases of plant and it's cause

Unit-1:

Introduction: Importance of plant diseases, scope and objectives of Plant Pathology. History of Plant Pathology with special reference to Indian work. Terms and concepts in Plant Pathology. Pathogenesis. Causes/ factors affecting disease development: disease triangle and tetrahedron and classification of plant diseases.

Unit-2:

Important plant pathogenic organisms, different groups: fungi, bacteria, fastidious vesicular bacteria, phyto-plasmas, spiro-plasmas, viruses, viroids, algae, protozoa, phanerogamic parasites and nematodes with examples of diseases caused by them. Diseases and symptoms due to abiotic causes.

Unit-3

Fungi: general characters, definition of fungus, somatic structures, types of fungal thalli, fungal tissues, modifications of thallus, reproduction (asexual and sexual). Nomenclature, Binomial system of nomenclature, rules of nomenclature, classification of fungi. Key to divisions, sub-divisions, orders and classes.

Unit-4

Bacteria and mollicutes: general morphological characters. Basic methods of classification and reproduction.

Viruses: nature, structure, replication and transmission. Study of phanerogamic plant parasites.

Nematodes: General morphology and reproduction, classification, symptoms and nature of damage caused by plant nematodes (*Heterodera*, *Meloidogyne*, *Anguina*, *Radopholus* etc.)



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Unit-5

Growth and reproduction of plant pathogens. Liberation / dispersal and survival of plant pathogens. Types of parasitism and variability in plant pathogens. Pathogenesis. Role of enzymes, toxins and growth regulators in disease development. Defense mechanism in plants. Epidemiology: Factors affecting disease development. Principles and methods of plant disease management. Nature, chemical combination, classification, mode of action and formulations of fungicides and antibiotics.

Practical: BAGL 206

Acquaintance with various laboratory equipment and micro copy. Collection and preservation of disease specimen. Preparation of media, isolation and Koch's postulates. General study of different structures of fungi. Study of symptoms of various plant diseases. Study of representative fungal genera. Staining and identification of plant pathogenic bacteria. Transmission of plant viruses. Study of phanerogamic plant parasites. Study of morphological features and identification of plant parasitic nematodes. Sampling and extraction of nematodes from soil and plant material, preparation of nematode mounting. Study of fungicides and their formulations. Methods of pesticide application and their safe use. Calculation of fungicide sprays concentrations.

Books:

1. Dube, H.C. 2013, An Introduction to Fungi, 4th (Edition), Scientific Publishers, Jodhpur, India, (major text book)
2. Webster, J. 1989. Introduction to fungi, Cambridge Univ. Press (for life cycles of Fungi)
3. Das Gupta, M.K. 1987. Principles of Plant Pathology, Allied Publ. Pvt. Ltd. p985. (for rust life cycles)
4. Students are also advised to refer Introductory Mycology by Alexopoulos, Mims and Blackwell (4th Edition) for Fungi.



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BAG 207: FUNDAMENTALS OF ENTOMOLOGY

Course Code	Course Name	TEACHING & EVALUATION SCHEME							
		THEORY			PRACTICAL		L	P	CREDITS
		END SEM University Exam	Two term exam*	Teachers Assessment*	END SEM University Exam	Teachers Assessment*			
BAG207	FUNDAMENTALS OF ENTOMOLOGY	50	30	00	15	05	3	1	4

Legends: L - Lecture; P - Practical; C-Credit;

***Teacher Assessment** shall be based on following components: Quiz / Assignment / Project / Participation in Class,

Course Objective: Basic knowledge of insect and morphology of insect

Course Outcomes

1. Student will able to understand Insects and pest effect on plants
2. Student will able to understand classification of different insects

Unit-1:

History of Entomology in India. Major points related to dominance of Insecta in Animal kingdom. Classification of phylum Arthropod up to classes. Relationship of class Insecta with other classes of Arthropoda. Morphology: Structure and functions of insect cuticle and molting. Body segmentation. Structure of Head, thorax and abdomen. Structure and modifications of insect antennae, mouthparts, legs, Wing venation, modifications and wing coupling apparatus.

Unit-2:

Structure of male and female genital organ. Metamorphosis and diapauses in insects. Types of larvae and pupae. Structure and functions of digestive, circulatory, excretory, respiratory, nervous, secretory (Endocrine) and reproductive system, in insects. Types of reproduction in insects. Major sensory organs like simple and compound eyes, chemoreceptor.

Unit-3

Insect Ecology: Introduction, Environment and its components. Effect of abiotic factors- temperature, moisture, humidity, rainfall, light, atmospheric pressure and air currents. Effect of biotic factors-food competition, natural and environmental resistance.

Unit-4

Part III

Categories of pests. Concept of IPM, Practices, scope and limitations of IPM. Classification of insecticides, toxicity of insecticides and formulations of insecticides. Chemical control- importance, hazards and limitations. Recent methods of pest control, repellents, anti feed ants, hormones, attractants, gamma radiation. Insecticides Act



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1968- Important provisions. Application techniques of spray fluids. Symptoms of poisoning, first aid and antidotes.

Unit-5

Systematic: Taxonomy –importance, history and development and binomial nomenclature. Definitions of Biotype, Sub-species, Species, Genus, Family and Order. Classification of class Insecta up to Orders, basic groups of present day insects with special emphasis to orders and families of Agricultural importance like Orthoptera: Acrididae, Tettigonidae, Gryllidae, Gryllotalpidae; Dictyoptera: Mantidae, Blattidae; Odonata; Isoptera: Termitidae; Thysanoptera: Thripidae; Hemiptera: Pentatomidae, Coreidae, Cimicidae, Pyrrhocoridae, Lygaeidae, Cicadellidae, Delphacidae, Aphididae, Coccidae, Lophophidae, Aleurodidae, Pseudococcidae; Neuroptera: Chrysopidae; Lepidoptera: Pieridae, Papilionidae, Noctuidae, Sphingidae, Pyralidae, Gelechiidae, Arctiidae, Saturnidae, Bombycidae; Coleoptera: Coccinellidae, Chrysomelidae, Cerambycidae, Curculionidae, Bruchidae, Scarabaeidae; Hymenoptera: Tenthredinidae, Apidae. Trichogrammatidae, Ichneumonidae, Braconidae, Chalcididae; Diptera: Cecidomyiidae, Tachinidae, Agromyziidae, Culicidae, Muscidae, Tephritidae.

BAGL 207: Practical

Methods of collection and preservation of insects including immature stages; External features of Grasshopper/Blister beetle; Types of insect antennae, mouthparts and legs; Wing venation, types of wings and wing coupling apparatus. Types of insect larvae and pupae; Dissection of digestive system in insects (Grasshopper); Dissection of male and female reproductive systems in insects (Grasshopper); Study of characters of orders Orthoptera, Dictyoptera, Odonata, Isoptera, Thysanoptera, Hemiptera, Lepidoptera, Neuroptera, Coleoptera, Hymenoptera, Diptera and their families of agricultural importance. Insecticides and their formulations. Pesticide appliances and their maintenance. Sampling techniques for estimation of insect population and damage.

Books:

1. Chapman, R.F. 1988. Insects: Structure and Function. Cambridge Univ. Press, UK.
2. Nayar, K.K. Anantha Krishnan, T.N. and David, B.V. 1976. General and Applied Entomology. Tata McGraw-Hill Publishing Co. Ltd., New Delhi.
3. Pant, N.C. and Ghai, S. 1981. Insect Physiology and Anatomy. ICAR, New Delhi.



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BAG 208: FUNDAMENTALS OF AGRICULTURAL EXTENSION EDUCATION

Course Code	Course Name	TEACHING & EVALUATION SCHEME							
		THEORY			PRACTICAL		L	P	CREDITS
		END SEM University Exam	Two term exam*	Teachers Assessment t*	END SEM University Exam	Teachers Assessment t*			
BAG208	Fundamentals Of Agricultural Extension Education	50	30	00	15	05	2	1	3

Legends: L - Lecture; P - Practical; C-Credit;

***Teacher Assessment** shall be based on following components: Quiz / Assignment / Project / Participation in Class,

Course Objective: Basic knowledge of Agriculture Extension education

Course Outcomes

1. Student will able to understand meaning and types of Extension Education
2. Student will able to understand how to transfer of agriculture technology to the farmers and mass

Unit-1:

Education: Meaning, definition & Types; Extension Education- meaning, definition, scope and process; objectives and principles of Extension Education; Extension Programme planning-Meaning, Process, Principles and Steps in Programme Development.

Unit-2:

Extension systems in India: extension efforts in pre-independence era (Sriniketan, Marthandam, Firka Development Scheme, Gurgaon Experiment, etc.) and post-independence era (Etawah Pilot Project, Nilokheri Experiment, etc.); various extension/ agriculture development programmes launched by ICAR/ Govt. of India (IADP, IAAP, HYVP, KVK, IVLP, ORP, ND, NATP, NAIP, etc.).

Unit-3

New trends in agriculture extension: privatization extension, cyber extension/ e-extension, market-led extension, farmer-led extension, expert systems, etc. Rural Development: concept, meaning, definition; various rural development programmes launched by Govt. of India.

Unit-4

Community Dev.-meaning, definition, concept & principles, Philosophy of C.D. Rural Leadership: concept and definition, types of leaders in rural context; extension administration: meaning and concept, principles and functions. Monitoring and evaluation: concept and definition, monitoring and evaluation of extension programmes;



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Unit-5

Transfer of technology: concept and models, capacity building of extension personnel; extension teaching methods: meaning, classification, individual, group and mass contact methods, ICT Applications in TOT (New and Social Media), media mix strategies; communication: meaning and definition; Principles and Functions of Communication, models and barriers to communication. Agriculture journalism; diffusion and adoption of innovation: concept and meaning, process and stages of adoption, adopter categories.

BAGL 208: Practical

To get acquainted with university extension system. Group discussion- exercise; handling and use of audio visual equipment and digital camera and LCD projector; preparation and use of AV aids, preparation of extension literature – leaflet, booklet, folder, pamphlet news stories and success stories; Presentation skills exercise; micro teaching exercise; A visit to village to understand the problems being encountered by the villagers/ farmers; to study organization and functioning of DRDA and other development departments at district level; visit to NGO and learning from their experience in rural development; understanding PRA techniques and their application in village development planning; exposure to mass media: visit to community radio and television studio for understanding the process of programme production; script writing, writing for print and electronic media, developing script for radio and television.

Books:

1. Adivi Reddy, A. 2006. Extension Education. Sree Lakshmi Press, Bapatla.
2. Dahama, O.P. and Bhatnagar, O.P. 1999. Extension and Communication for Development. Oxford & IBH Private Limited, New Delhi/Mumbai.
3. Ganesh, R., Mohammad Iqbal and Ananda Raja. 2003. Reaching the Unreached-Basics of Extension Education. Associate Publishing Company, New Delhi.



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BSAG 209: COMMUNICATION SKILLS AND PERSONALITY DEVELOPMENT

Course Code	Course Name	TEACHING & EVALUATION SCHEME								
		THEORY			PRACTICAL			L	P	CREDITS
		END SEM University Exam	Two term exam*	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BAG209	COMMUNICATION SKILLS AND PERSONALITY DEVELOPMENT	50	30	00	15	05	1	1	2	

Legends: L - Lecture; P – Practical; C-Credit; ***Teacher Assessment** shall be based on following components: Quiz / Assignment / Project / Participation in Class,

Course Objective: Basic knowledge of communication skills

Course Outcomes

5. Student will able to understand English meaning and grammar
6. Student will able to understand way of presentation and speaking in English

Unit-1:

Communication Skills: Structural and functional grammar; meaning and process of communication, verbal and nonverbal communication;

Unit-2:

Listening and note taking, writing skills, oral presentation skills;

Unit-3

Field diary and lab record; indexing, footnote and bibliographic procedures.

Unit-4

Reading and comprehension of general and technical articles, precise writing, summarizing, abstracting;

Unit-5

Individual and group presentations, impromptu presentation, public speaking; Group discussion. Organizing seminars and conferences.

BAGL 209 :Practical

Listening and note taking, writing skills, oral presentation skills; field diary and lab record; indexing, footnote and bibliographic procedures. Reading and comprehension of general and technical articles, precise writing, summarizing, abstracting; individual and group presentations.

Books:

1. Krishna Mohan and Meera Banerjee. 1990. Developing Communication Skills. McMillanIndia Ltd., NewDelhi.
2. Krishan swamy, N and Sriramman, T. 1985. Current English for Colleges. McMillan India Ltd., Madras.