


COURSE OUTCOMES of various courses displayed in various Departments of Janta Vedic college, Baraut, Baghpat



JANTA VEDIC (P.G.) COLLEGE

BARAUT (BAGHPAT), U.P.

DEPARTMENT OF AGRICULTURAL ECONOMICS

UG (B.Sc. (Ag.) Honrs.) COURSES

- 1 Fundamentals of Agricultural Economics
- 2 Agricultural Finance & Cooperation
- 3 Agricultural Marketing, Trade & Prices
- 4 Agribusiness Management
- 5 Farm Management
- 6 Rural Awareness Work Experience (RAWE) & Agro-Industrial Attachment

Correct Programme: B.Sc. (Ag.) Honrs.

COURSE OUTCOMES (COs)

Our UG (B.Sc. Ag.) and PG (M.Sc. Ag. Economics) programmes equip students with knowledge, skills, attitudes and competencies for sustainable agricultural and rural development.

CO 1 ECONOMIC PRINCIPLES & THEORY APPLICATION Acquire knowledge of micro, macro and applied economics and apply these principles in agricultural and rural systems.	CO 7 RESEARCH METHODOLOGY & STATISTICAL SKILLS Apply research design, data collection techniques, statistical tools and econometric analysis for evidence-based decision making.
CO 2 AGRICULTURAL PRODUCTION & RESOURCE ECONOMICS Analyze production functions, resource allocation and efficient use of land, labour, capital and technology.	CO 8 NATURAL RESOURCE & ENVIRONMENT ECONOMICS Understand sustainable use of natural resources, environmental issues and ecological-economic linkages for long-term sustainability.
CO 3 FARM MANAGEMENT & DECISION MAKING Develop skills in farm planning, budgeting, cost analysis, risk management and efficient decision making.	CO 9 AGRICULTURAL POLICY, PLANNING & DEVELOPMENT Evaluate agricultural policies, development programmes and planning strategies in Indian agricultural context.
CO 4 AGRICULTURAL MARKETING, TRADE & PRICE ANALYSIS Understand marketing systems, value chains, trade mechanisms, price behaviour and policy interventions.	CO 10 RURAL DEVELOPMENT & FIELD EXPOSURE Gain practical exposure through RAWE and agro-industrial attachment and understand real rural and farming systems.
CO 5 AGRICULTURAL FINANCE & COOPERATION Understand rural credit systems, financial institutions, cooperative structures and investment analysis in agriculture.	CO 11 FINANCIAL & ORGANIZATIONAL MANAGEMENT SKILLS Develop competence in financial management, organizational behaviour and human resource management.
CO 6 AGRIBUSINESS & STRATEGIC MANAGEMENT Develop entrepreneurial skills, business planning, strategic management and new venture development in agribusiness.	CO 12 ENTREPRENEURSHIP & EMPLOYABILITY Prepare for careers in agribusiness, banking, research, government services and self-employment opportunities.

PG (M.Sc. Ag. Economics) COURSES

- 1 Principles of Economics in Relation to Agriculture
- 2 Economic Structures, Problems & Planning of Indian Agriculture
- 3 Farm Management
- 4 Agricultural Marketing & Price Policy
- 5 Research Methodology & Agricultural Statistics
- 6 Economics of Natural Resources, Environment & Sustainability
- 7 Agricultural Finance & Cooperation
- 8 Production & Resource Economics
- 9 Entrepreneurial Skills & New Venture Planning
- 10 Marketing Management
- 11 Strategic Management for Agribusiness
- 12 Financial Management for Agriculture
- 13 Economic Growth & Development
- 14 Organizational Behaviour & Human Resource Management

PROGRAMME OUTCOMES (POs)

- Strong analytical and problem solving ability
- Application of economic theory in real life
- Research and statistical competence
- Entrepreneurial and managerial skills
- Policy understanding and rural development focus
- Enhanced employability in diverse sectors

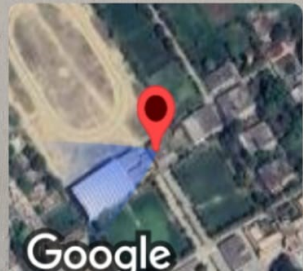
HEAD OF THE DEPARTMENT

Dr. Pukhraj Singh
Head, Department of Agricultural Economics

FACULTY MEMBER


Dr. Shiv Kumar
Assistant Professor
Department of Agricultural Economics

EDUCATE • EMPOWER • INNOVATE • SERVE THE NATION THROUGH AGRICULTURE



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**DEPARTMENT OF AGRICULTURAL EXTENSION
JANTA VEDIC COLLEGE, BARAUT (BAGHPAT)**

Affiliated to C.C.S. University, Meerut

NAME OF FACULTIES :

Dr. Gajendra Pratap Singh (Head & Dean, Faculty of Agriculture) | **Dr. Lokendra Kumar Singh** (Professor) | **Dr. Ashok Kumar Gautam** (Assistant Professor) | **Dr. Ravi Shankar** (Assistant Professor)

ENTREPRENEURSHIP DEVELOPMENT AND BUSINESS COMMUNICATION

COURSE OUTCOME (COS) :

- CO1: Understand the concept of entrepreneurship and entrepreneur, including types, roles, and significance in economic development. Explain the process of entrepreneurship development and the role of innovation in agribusiness.
- CO2: Identify and assess entrepreneurial characteristics, achievement motivation, and leadership qualities. Apply SWOT analysis for self-assessment and business evaluation.
- CO3: Analyze government policies, schemes, and institutional support systems for entrepreneurship development. Evaluate the impact of economic reforms on agribusiness and rural enterprises.
- CO4: Develop managerial and organizational skills including planning, controlling, supervising, monitoring, and evaluation. Demonstrate business leadership skills such as communication, direction, and motivation.
- CO5: Apply problem-solving techniques in business situations. Understand and implement concepts of Supply Chain Management and Total Quality Management (TQM) in agri-enterprises.
- CO6: Prepare project reports, business plans, and proposals for agri-based enterprises. Understand various sources of finance and funding mechanisms for starting and managing enterprises.
- CO7: Identify and evaluate opportunities in agribusiness and rural enterprises. Develop entrepreneurial ventures based on local resources and market demand.
- CO8: Assess personal entrepreneurial traits, creativity, and managerial abilities through practical exercises. Demonstrate skills in time management, idea generation, and business plan development. Gain exposure through field visits to entrepreneurship development institutes and interaction with entrepreneurs.

COMMUNICATION SKILLS AND PERSONALITY DEVELOPMENT

COURSE OUTCOMES (COS)

- CO1: Understand the concept, principles, process, and models of communication along with barriers affecting effective communication in professional contexts.
- CO2: Apply communication skills in writing, including letters, reports, and proposals.
- CO3: Demonstrate effective listening skills and apply communication techniques such as field diary, interviewing, footprints, and bibliographic citation.
- CO4: Apply communication and personality development skills in professional, and social situations.
- CO5: Analyze and comprehend general and technical reading materials for academic enrichment.
- CO6: Exhibit effective oral presentation skills including individual, group, and impromptu presentations.
- CO7: Demonstrate confidence in public speaking, group discussions, and organizing seminars and conferences.
- CO8: Understand the concept of diffusion and adoption of innovations, including stages of adoption and adopter categories.
- CO9: Apply communication and personality development skills in professional, and social situations.



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Department of Genetics and Plant Breeding
 Janta Vedic College, Baraut(Baghat)
PROGRAMME OUTCOMES (POs)
 (For B.Sc. Agriculture (Hons.) Programme)

Department of Genetics and Plant Breeding
 Janta Vedic College, Baraut(Baghat)
COURSE OUTCOMES (COs)
 B. Sc.(Ag.) Hons. 2nd Semester
 Fundamentals of Crop Physiology (AG-281)

Department of Genetics and Plant Breeding
 Janta Vedic College, Baraut(Baghat)
COURSE OUTCOMES (COs)
 B. Sc.(Ag.) Hons. 6th Semester
 Crop Improvement in Kabi Crops (AG-602)

Department of Genetics and Plant Breeding
 Janta Vedic College, Baraut(Baghat)
COURSE OUTCOMES (COs)
 B. Sc.(Ag.) Hons. 4th Semester
 Fundamentals of Plant Biotechnology (AG-405)

Department of Genetics and Plant Breeding
 Janta Vedic College, Baraut(Baghat)
COURSE OUTCOMES (COs)
 B. Sc.(Ag.) Hons. 8th Semester
 Experimental Learning Programme (ELP)
 Seed Production Technology & Testing (AG-812)

Department of Genetics and Plant Breeding
 Janta Vedic College, Baraut(Baghat)
PROGRAMME OUTCOMES (POs)
 B. Sc.(Ag.) Hons. 8th Semester
 Experimental Learning Programme (ELP)
 Seed Production Technology & Testing (AG-812)

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Department of Political Science, Janta Vedic
College, Baraut

MA 2nd Semester Course Outcomes

1. Advanced Conceptual Mastery in Political and Administrative Theory, including incorporation of theoretical models and governance frameworks in contemporary public institutions.
2. Critical Engagement with Classical and Contemporary Theories (including Realism, Neo-Marxism, Green Theory, Mutualism, etc.), including comparative analysis of justice, power, and distribut.
3. Synthesis of Indigenous and Western Intellectual Traditions (with reference to Advaitan Vedant) offering context-sensitive approaches to modern governance and policy debates.
4. Application of Administrative Theories to Governance and Institutional Practice, with emphasis on analyzing administrative reforms and public service delivery mechanisms.
5. Normative and Empirical Evaluation of Public Policy, enabling critical assessment of welfare schemes and governance outcomes.
6. Proficiency in Research Design and Methodological Frameworks, including formulation of research questions, hypotheses, and structured proposals.
7. Competency in Qualitative and Quantitative Research Methods, demonstrated through, but not limited to, surveys, interviews, and data analysis.
8. Scholarly Academic Writing and Policy-Oriented Communication, reflected in the production of research papers, analytical essays, and policy work.
9. Critical Thinking and Analytical Reasoning in Political Inquiry, developed through debates, case studies, and issue-based evaluations.
10. Examination of Power, Inequality, and Identity in Contemporary Contexts, applied to the study of gender, caste, and social justice movements.
11. Integration of Ethical Reasoning in Political and Administrative Decision-Making, addressing governance dilemmas and leadership challenges.
12. Interdisciplinary Engagement Across Theory, Practice, and Methodology, fostering integrative analyses across political theory, administration, and research.
13. Contextual Application in Global and Local Governance Challenges, including issues of development, globalization, and institutional change.
14. Development of Professional Competencies for Public and Academic Careers, encompassing policy analysis, report writing, and effective presentation skills.
15. Capacity for Independent Research and Intellectual Autonomy, substantiated in dissertation work and self-directed scholarly inquiry.

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Prof. Dr. Anurag Mishra
Head of Department
Janta Vedic College
Baraut, Uttar Pradesh, India

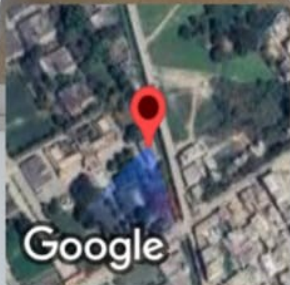
Department of Political Science, Janta Vedic
College, Baraut


MA 4th Semester Course Outcomes

1. Advanced Understanding of State Politics in India, with focused analysis of electoral mechanisms, coalition politics, and party systems in Uttar Pradesh.
2. Critical Evaluation of Election Behavior and Institutional Processes, including voting patterns, representation, and role of regionalist parties.
3. Conceptual Mastery of Foundations of Indian Political Theory, engaging with core principles such as Raj Dharma, Rajya Dharma, Dharma (duty/responsibility), and Mahatma Nyaya.
4. Application of Classical Indian Political Concepts to Contemporary Governance, drawing upon traditions associated with Mahatma to interpret ethics, leadership, and social justice.
5. Analytical Engagement with Liberalization, Privatization, and Globalization (LPG) Reforms, assessing their impact on social structures, economy, and social equity.
6. Critical Examination of Social Movements and Accountability Mechanisms, including anti-corruption initiatives such as the Lokpal and clean-coal schemes.
7. Evaluation of Gender and Social Justice Frameworks, analyzing policy responses to inequality, inclusion, and rights-based governance.
8. Comprehensive Understanding of Local Governance Mechanisms, including Panchayat Raj institutions (PTIs), Gram Sadaks, and Urban Local Bodies (Municipal Corporations, Municipal Councils).
9. Assessment of Democratic Decentralisation and 73rd & 74th Constitutional Amendments, with emphasis on participation, accountability, and grassroots governance in Uttar Pradesh.
10. Application of Administrative and Political Theory to Local Governance Practice, evaluating implementation challenges, resource allocation, and development outcomes.
11. Advanced Research Competence in South Asian Political Contexts, focusing on regional dynamics involving India, Pakistan, Bangladesh, Sri Lanka, and Nepal.
12. Comparative Analysis of South Asian Regional Issues, including conflict, cooperation, regional organizations, and geopolitical challenges.
13. Execution of Independent Research Projects, incorporating research design, data analysis, and structured academic inquiry on South Asian themes.
14. Scholarly Writing and Policy-Oriented Analysis, demonstrated through dissertations, reports, and issue-based evaluations.
15. Critical, Ethical, and Context-Sensitive Political Reasoning, enabling informed engagement with local, state, and regional governance challenges.

[Signature]
Prof. Dr. Anurag Mishra
Head of Department
Janta Vedic College
Baraut, Uttar Pradesh, India

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Baraut, Uttar Pradesh, India 

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DEPARTMENT OF AGRONOMY

JANTA VEDIC COLLEGE
BARAUT (BAGHPAT)

<p>M.Sc. (Ag.) IV Semester J-4005 Agronomy & Sustainable Agriculture</p> <p>Course Outcomes:</p> <p>After completion of this course students will be able to:</p> <ol style="list-style-type: none"> 1. Practical Knowledge: You'll receive the definitions and history of various systems from Agricultural (organic to mixed) to Agro-ecological (Agro-ecology and energy plantation). 2. Environmental Impact: You will understand how these systems protect the planet by conserving natural resources, reducing greenhouse gas emissions, and promoting biodiversity. 3. Sustainability & Impact: The course explores how to maintain long-term productivity using natural and low-input systems that balance food and fuel needs. 4. Economic Viability: You will gain the skills to calculate the economics of various systems to ensure they are profitable for farmers. 5. Agro-ecology Systems: You will learn to design appropriate agro-ecology systems and systems (e.g., silvopasture, silvopasture) suitable for different agro-ecological situations. 6. Long-term Plantation Techniques: Demonstrate proficiency in using forest systems, agroforestry, and plantation techniques specifically for farm foundation and social sites. 7. Enhance Sustainable Practices: Identify the components of such agro-ecological practices and develop strategies to implement them through sustainable resource management. 8. Resource Soil and Environment Health: Understand the role of soil in soil conservation, moisture, and carbon sequestration to increase long-term agricultural productivity. 9. Animal-Soil-Resource Impact: Evaluate how agro-ecology practices impact environmental, economic, and social factors, and provide low-input solutions for small-scale crop production. 10. Practical Skills: Soil treatment for crop rotation, propagation methods, and evaluation of water resources, water of rivers. 	<p>M.Sc. (Ag.) Agronomy IV Semester J-4005 Dryland Agronomy</p> <p>COURSE OUTCOMES:</p> <p>After completion of this course, students will be able to:</p> <ol style="list-style-type: none"> 1. Define and differentiate between dryland and rain-fed farming. They will understand the unique climatic characteristics and the vital socio-economic significance of dryland farming within the context of Indian agriculture. 2. Students will gain the ability to characterize environments based on water availability and identify different types of droughts. This includes the practical skill of performing rainfall probability analysis to guide effective crop planning. 3. Students will understand how crop plants biologically adapt to moisture stress. Students will be able to design drought management strategies, including soil-water conservation to mitigate the impact of adverse weather. 4. Students will evaluate and apply various moisture conservation methods, such as in-situ soil moisture conservation, mulching, tillage practices, use of soil-transplants along with water harvesting techniques. 5. Students will develop proficiency in selecting appropriate crop varieties and tillage practices specifically tailored for dryland conditions. This includes specialized knowledge of dry seeding, seed hardening and the efficient use of fertilizers under limited moisture. 6. Students will be able to explain the concept of watershed management and its real-world application in India. This involves integrating agro-ecology systems and soil and water loss measurements to create sustainable, high-yielding dryland farming models. 	<p>M.Sc. (Ag.) Agronomy IV Semester J-4007 Crop Ecology & Geography</p> <p>COURSE OUTCOMES:</p> <p>After completion of this course, students will be able to:</p> <ol style="list-style-type: none"> 1. Understand about physiological limit of crop yield and variability in relation to ecological optima. 2. They will also learn about crop adaptation, global warming and its impact on field crops. 3. They will also familiar with the greenhouse effect, agroecological and agroclimatic regions of India. 4. Students will learn about geographical distribution of field crops in addition to they will also be acquainted with adverse climatic factors of crop productivity, physiological stress in crops and remote sensing. 5. They will be acquainted with to agromet observatory and research installation related to ecology. 	<p>B.Sc. (Ag.) II SEMESTER AG-205 Principles of Organic Farming (21+1)</p> <p>After successful completion of this course, students will be able to:</p> <ol style="list-style-type: none"> 1. Understand the concept, fundamental principles and scope of organic farming in India and various initiatives taken by government, NGOs, and organizations for promotion of organic agriculture. 2. Identify and utilize different organic nutrient resources and understand their fortification methods. 3. Understand restrictions on nutrient use and select suitable crops and varieties for organic farming systems. 4. Apply basic concepts of insect, pest, disease, and weed management under organic farming conditions. They will be able to identify the bioagents and botanical agents used to protect the crops under organic farming. 5. Explain the certification process and standards of organic farming. 6. Demonstrate practical skills in preparation of enriched compost and vermicompost. 7. Familiar with production technologies of green manure crops and indigenous technical knowledge practices. 8. Evaluate cost, quality aspects, grading, packaging, and handling in organic production systems. 9. To develop own business such as organic food production, vermicompost, bioagents production etc.
<p>B.Sc. (Ag.) I Semester AG-106 Introduction to Farming (21+1)</p> <p>Course Outcomes:</p> <p>After completion of this course students will be able to:</p> <ol style="list-style-type: none"> 1. Define farming and explain its scope in agriculture, environmental management and the role of farms in ecological balance (climate regulation, biodiversity conservation, soil protection). They will also explain the relationship between farming, agriculture, and non-farm livelihoods and identify different types of farms (organic, biodynamic, agroecology, etc.). 2. Classify farms based on climate, geography, and regional, identify important (small-scale organic, biodynamic, agroecology, etc.) and understand historical characteristics of farms (livestock, horticulture, etc.) and required resources (labor, capital, etc.). 3. Explain methods of farm registration (national and international), describe various techniques (seed selection, treatment, sowing, transplanting), planting techniques and spacing methods and apply basic farm management practices. 4. Understand the concept of farm measurements (area, length, age, diameter, volume), use of basic tools for measurement (measuring tape, calipers, etc.), and able to calculate tree volume and growth and reproduction of farm inventory. 5. Appreciated with the concept of agroecology, identify different agroecology systems (Agro-ecological, Silvopasture, High biodiversity) benefits of agroecology, planting techniques and spacing methods and apply basic farm management practices. 6. Identify the causes of forest degradation (deforestation, fragmentation, fire, etc.), understand forest protection measures (fire control, pest management, etc.). 7. Understand national forest policies and their objectives, the role of forests in climate change mitigation, concepts like sustainable development and conservation ethics and analyze government policies related to forestry. 8. Recall seedlings in nurseries, planting and spacing in field conditions, identify uses in the field, conduct basic farm surveys and farm collection and apply practical knowledge in real-life forestry practice. 	<p>M.Sc. Ag. (Agronomy) III Semester J-3005 Principles and practices of weed management</p> <p>Course outcomes:</p> <p>After completion of this course, students will be able to:</p> <ol style="list-style-type: none"> 1. Identify and categorize weeds based on their morphology, habitat, and life cycles, with a specific understanding of the ecology of annual and perennial species. 2. Explain the physiological basis of competition and the role of allelopathy in crop ecosystems to determine the Critical Period of Weed Competition. 3. Formulate integrated weed management plans that combine mechanical, cultural, biological, and chemical methods for sustainable agriculture. 4. Classify herbicides by their chemical families and explain their Mode of Action, selectivity, and metabolic pathways within plants and soil. 5. Predict the persistence and degradation of herbicides in the environment and evaluate the risks of herbicide resistance in weeds. 6. Appraise the role of Genetically Modified (GM) herbicide-tolerant crops and their impact on modern weed management systems. 7. Accurately identify major weed species at various growth stages and maintain a professional weed herbarium. 8. Conduct quantitative weed surveys and calculate weed indices in a management intervention. 9. Calibrate spray equipment (knaps and nozzles), calculate correct dosage, and prepare precise herbicide solutions for field application. 10. Perform soil and plant bioassays to detect herbicide residues and analyze plant samples for herbicide resistance. 11. Calculate the economics of weed control, comparing the cost-benefit ratio of different management practices. 	<p>M.Sc. (Ag.) Agronomy III Semester J-3006 Agronomy of Fodder, Forage, Medicinal and Aromatic Plants</p> <p>COURSE OUTCOMES:</p> <p>After completion of this course, students will be able to:</p> <ol style="list-style-type: none"> 1. Learn about adaptation, distribution, varietal selection, agro-techniques, quality aspects and anti-quality factors of component fodder and forage crops like sorghum, maize, sorghum, bajra, guar, cowpea, oats, barley, berseem, lucerne and clovers. 2. To know about the principles and methods of hay and silage making. 3. Students will also familiar with the importance, classification, characteristics & uses, ecological requirements, cultural practices, constraints of important medicinal and aromatic plants like ashwagandha, Citronella, Palmarosa, Sawtooth, poppy, Neesoonia, Mentha, Basil, geranium. 4. Students will also be able to identify the different species of fodder, forage, medicinal and aromatic plants. 	<p>B.Sc. (Ag.) IV Semester AG-409 Introductory agroecology & climate change (21+1)</p> <p>Course Outcomes:</p> <p>After completion of this course students will be able to:</p> <ol style="list-style-type: none"> 1. Explain the scope and importance of agroecology in agriculture, ecosystem and composition of the atmosphere, key weather elements such as temperature, relative humidity, wind, soil water retention and river weather and climate in agricultural productivity. 2. Identify and use standard meteorological instruments (anemometer, rain gauge, hygrometer, thermometer, etc.) to record and interpret weather data accurately. They will be able to understand units, scales and methods of measurement and develop skills in maintaining agro-meteorological observations. 3. Interpret weather and climate data for crop planning, weather risk, weather information for sowing, irrigation, fertilization and harvesting decisions. 4. Understand the climate variability and climate change, explain causes of climate change (natural and anthropogenic) global warming, greenhouse gases, and their impacts. 5. Examine effects of climate change on crop growth, yield, and productivity, impacts on soil moisture, pests, and diseases. Analyze vulnerability of different agro-ecosystems and propose risk-reduction strategies, flood, and heat stress. 6. Develop weather-based crop management strategies like use weather forecasts for farm decision-making, apply emergency scheduling based on agro-meteorological, manage crop water stress, nutrient management. 7. Learn types of weather forecasts (short-term, medium-range, long-term), interpret meteorological relations and definitions, Agro-meteorological services for farmers and use forecast data for successful crop harvest. 8. Identify adaptation and mitigation strategies for climate change, promote sustainable farming practices, understand carbon footprint and climate-smart agriculture and suggest suitable cropping systems under changing climate. 9. Handle meteorological instruments and record observations, prepare and interpret weather charts and graphs and calculate agro-meteorological indices (e.g., ET, CDD).

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JANTA VEDIC COLLEGE, BARAUT
(Affiliated to CCC University, Meerut)
Estd. 1965

DEPARTMENT OF PLANT PATHOLOGY
B.Sc. (Ag.) Hons.

COURSES & COURSE OUTCOMES (SEMESTER-WISE GLIMPSES)

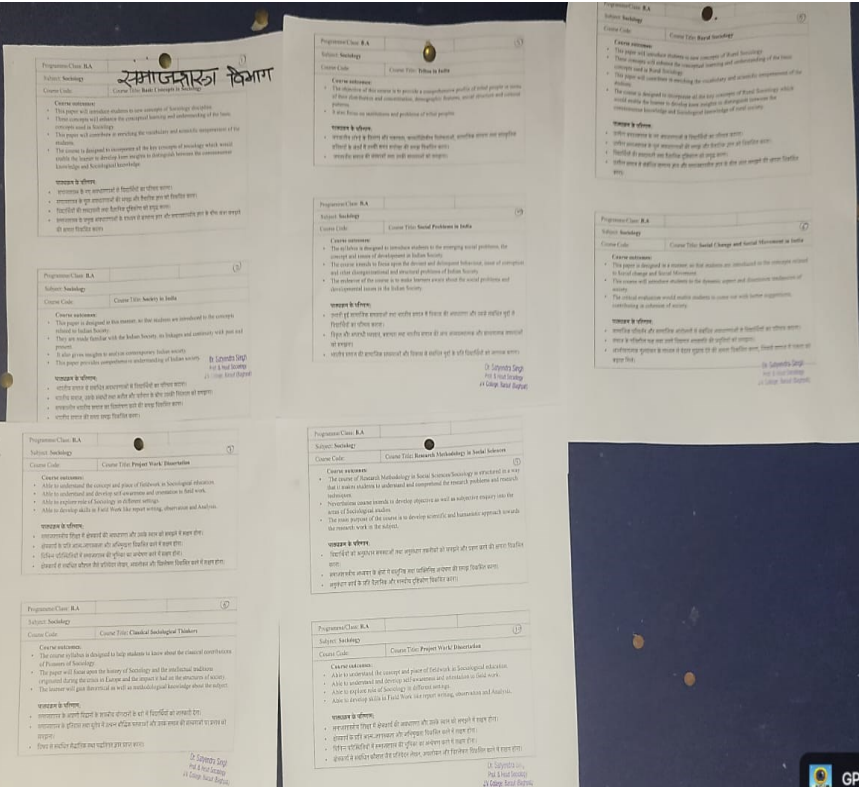
<p>SEMESTER I</p> <p>AG-110 GENERAL AGRICULTURE I</p> <p>COURSE GLIMPSE Basic knowledge of important diseases in major cereal, pulse, millet, fruits and vegetable crops.</p> <p>COURSE OUTCOMES ● Students gain basic understanding of common plant diseases. ● Ability to identify disease symptoms in major crops.</p>	<p>SEMESTER II</p> <p>AG-206 FUNDAMENTALS OF PLANT PATHOLOGY</p> <p>COURSE GLIMPSE Study of plant pathogens (fungi, bacteria, viruses, nematodes etc.), disease development, epidemiology, plant defense and disease management.</p> <p>COURSE OUTCOMES ● Understanding of disease causes & development (Disease Triangle). ● Identification of plant pathogens. ● Knowledge of plant defense mechanisms. ● Basic laboratory & diagnostic skills.</p>	<p>SEMESTER III</p> <p>AG-307 PRINCIPLES OF INTEGRATED DISEASE MANAGEMENT</p> <p>COURSE GLIMPSE IDM concepts, methods of control, economic thresholds, biological control, surveillance and eco-friendly management of pests & diseases.</p> <p>COURSE OUTCOMES ● Application of Integrated Pest & Disease Management (IDM). ● Decision-making using economic threshold levels. ● Identification of biocontrol agents. ● Awareness of eco-friendly disease management.</p>
<p>SEMESTER V</p> <p>AG-506 DISEASES OF FIELD AND HORTICULTURAL CROPS AND THEIR MANAGEMENT - I</p> <p>COURSE GLIMPSE Symptoms, etiology, disease cycle and management of major diseases of field crops (rice, maize, pulses, oilseeds, millets etc.) and horticultural crops (guava, banana, papaya, citrus, vegetables, grapes etc.).</p> <p>COURSE OUTCOMES ● Diagnosis of major crop diseases. ● Understanding disease cycle. ● Practical skills in field identification. ● Herbarium specimen preparation.</p>	<p>SEMESTER VI</p> <p>AG-605 DISEASES OF FIELD AND HORTICULTURAL CROPS AND THEIR MANAGEMENT - II</p> <p>COURSE GLIMPSE Advanced study of diseases of field crops (wheat, sugarcane, barley, cotton etc.) and horticultural crops (mango, citrus, brinji, potato, onion, flowers etc.).</p> <p>COURSE OUTCOMES ● Advanced diagnostic skills. ● Disease management strategies. ● Field problem-solving ability. ● Scientific documentation of plant diseases.</p>	
<p>SEMESTER VII</p> <p>AG-71 (RAWE) & AG-72 (AIA) RURAL AGRICULTURAL WORK EXPERIENCE & AGRICULTURAL INDUSTRIAL ATTACHMENT</p> <p>COURSE GLIMPSE Village visits, farmer interaction, field survey, disease diagnosis, advisory services and exposure to agricultural industries.</p> <p>COURSE OUTCOMES ● Practical exposure to agricultural systems. ● Ability to diagnose field diseases. ● Farmer advisory & extension skills. ● Development of communication & leadership.</p>	<p>SEMESTER VIII</p> <p>AG-813 MUSHROOM CULTIVATION TECHNOLOGY</p> <p>COURSE GLIMPSE Mushroom production, compost preparation, spawn production, cultivation, post-harvest management and marketing.</p> <p>COURSE OUTCOMES ● Skills in commercial mushroom cultivation. ● Knowledge of edible & medicinal mushrooms. ● Entrepreneurship development in agri sector.</p>	<p>MUSHROOM CULTIVATION</p> <p>MUSHROOM LAB VISIT</p> <p>FIELD VISIT 12/12/2023-13/12/23</p> <p>Memorik, Uttar Pradesh, India Dr. V.K. Mishra, Director, JVC Baraut Lab: PG 07/08/09, "Laxmi IT" Hall Mushroom Cultivation 12/12/23-13/12/23</p>

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BASED ON LABORATORY TRAINING FIELD VISITS & DISEASE DIAGNOSIS HERBARIUM & SPECIMEN COLLECTION FARMER INTERACTION & EXTENSION ACTIVITIES SKILL-BASED LEARNING APPROACH

Learning Today for Sustainable Agriculture Tomorrow

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 Note: JVC Baraut (Baghpat) UP



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