Academic Program and Course Curriculum

The **College of Agriculture** offers 4-years (8 semesters) residential undergraduate degree program, B. Sc. (Hons.) in Agriculture.

Curriculum of B. Sc. (Hons) Agriculture Degree Program

FIRST YEAR (Semester I & II)	• Introductory Agriculture and Principles of Agronomy • Field Crops-I (*Kharif*) • Introduction to Soil Science • Introductory Plant Pathology • Production Technology of Fruit Crops • Economic Botany • Biomathematics • Introduction to Computer Application • Comprehension and Communication Skills in English • NSS/NCC/Physical Education (Non-credit course)	• Principles of Agricultural Economics • Fundamentals of Soil Water Conservation and Engg. • Agricultural Microbiology • Agricultural Statistics • Soil Chemistry, Soil Fertility and Nutrient Management • Principles of Genetics • Field Crops-II (*Rabi*) • Agricultural Meteorology • NSS/NCC/Physical Education (Non-credit course)
SECOND YEAR (Semester III & IV)	• Practical Crop Production I (*Kharif* crops) • Weed Management • Principles of Plant Breeding • Production Technology of Vegetables and Flowers • Crop Physiology -I • Dimensions of Agricultural Extension • Insect Morphology and Systematic • Principles of Plant Pathology • Agricultural Marketing, Trade and Prices • Farm Power and Machinery • NSS/NCC/Physical Education (Non-credit course)	• Practical Crop Production II (*Rabi* crops) • Insect Ecology and Integrated Pest Management • Livestock Production and Management • Agricultural Finance and Co-operation • Production Technology of Spices, Aromatics Medicinal and Plantation Crops • Breeding of Field and Horticultural Crops • Fundamentals of Rural Sociology and Edu. Psychology • Biochemistry • Crop Physiology –II • NSS/NCC/Physical Education (Non-credit course)
THIRD YEAR (Semesters V & VI)	• Water Management Including Micro Irrigation • Pests of Field Crops and Stored Grain and Management • Post-harvest Management and Value Addition of Fruits and Vegetables • Dairy Cattle and Buffalo Production and Management • Diseases of Field Crops and their Management • Principles of Seed Technology • Fundamentals of Agri. Business Management • Protected Cultivation and Post-harvest Technology • Extension Methodologies for Transfer of Agril. Tech.	• Introductory Nematology • Entrepreneurship Development • Environmental Science • Renewable Energy • Organic Farming • Farming Systems and Sustainable Agriculture • Manures, Fertilizers and Agrochemicals • Principles of Plant Biotechnology • Disease of Horticultural Crops and their Management • Production Economics and Farm Management • Pests of Horticultural Crops and their Management
FOURTH YEAR (Semester VII & VIII)	• Rural Agricultural Work Experience (RAWE) Program Attachment to the Agro-based industries, Research Stations, KVKs, DAATT Centres • Educational Tour	• Courses for Experiential Learning (20 course credits)

The College of Polytechnic in Agriculture offers 3-years (6 semesters) residential Diploma program in Agriculture.

Curriculum of Diploma Polytechnic in Agriculture

FIRST YEAR (Semester I & II)	• Introductory Agriculture and Principles of Agronomy • Field Crop Production -I (*Kharif*) • Introduction to Soil Science • Fundamentals of Entomology • Economic Botany • Principles of Horticulture • Comprehension and Communication Skills in English • Biomathematics • NSS/NCC/Physical Education (Non-credit course)	• Field Crops-II (*Rabi*) • Principles of Insect Control • Production Technology of Fruit Crops • Bio Mathematics • Introductory Plant Pathology • Fundamentals of Agricultural Engineering • Principles of Livestock & Poultry Production • Fundamentals of Extension Edu. and Communication • NSS/NCC/Physical Education (Non-credit course)
SECOND YEAR (Semester III & IV)	• Organic Farming and Sustainable Agriculture • Practical Crop Production (*Kharif* crops) • Plant nutrition, manures and fertilizers • Principles of Genetics • Pests of Field Crops and their management • Diseases of Field Crops and their management • Dairy Cattle and Buffalo Production & Management • Production Technology of Fruit Crops • NSS/NCC/Physical Education (Non-credit course)	• Water Management • Weed Management • Diseases of Fruits and Vegetable Crops and their mgt. • Crop Physiology • Pests of Fruit and Vegetable Crops and their mgt. • Production Technology of Vegetable Crops • Post-harvest Technology • Introduction to Computer Application • NSS/NCC/Physical Education (Non-credit course)
THIRD YEAR (Semesters V & VI)	• Farming Systems and Farm Management • Agriculture Statistics • Production Technology of Flower Crops and Gardening • Introductory Plant Breeding • Agricultural Microbiology • Fundamentals of Soil Water Conservation and Engg.	• Seed Production Technology • Preservation and Value Addition in Horticultural Crops • Mushroom Production Technology • Green House Technology • Vermicompost • Educational Tour