

# ***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**

<b>FIRST YEAR (Semester I &amp; II)</b>	<ul style="list-style-type: none"> <li>• Introductory Agriculture and Principles of Agronomy</li> <li>• Field Crops-I (<i>Kharif</i>)</li> <li>• Introduction to Soil Science</li> <li>• Introductory Plant Pathology</li> <li>• Production Technology of Fruit Crops</li> <li>• Economic Botany</li> <li>• Biomathematics</li> <li>• Introduction to Computer Application</li> <li>• Comprehension and Communication Skills in English</li> <li>• NSS/NCC/Physical Education (Non-credit course)</li> </ul>	<ul style="list-style-type: none"> <li>• Principles of Agricultural Economics</li> <li>• Fundamentals of Soil Water Conservation and Engg.</li> <li>• Agricultural Microbiology</li> <li>• Agricultural Statistics</li> <li>• Soil Chemistry, Soil Fertility and Nutrient Management</li> <li>• Principles of Genetics</li> <li>• Field Crops-II (<i>Rabi</i>)</li> <li>• Agricultural Meteorology</li> <li>• NSS/NCC/Physical Education (Non-credit course)</li> </ul>
<b>SECOND YEAR (Semester III &amp; IV)</b>	<ul style="list-style-type: none"> <li>• Practical Crop Production I (<i>Kharif</i> crops)</li> <li>• Weed Management</li> <li>• Principles of Plant Breeding</li> <li>• Production Technology of Vegetables &amp; Flowers</li> <li>• Crop Physiology -I</li> <li>• Dimensions of Agricultural Extension</li> <li>• Insect Morphology and Systematic</li> <li>• Principles of Plant Pathology</li> <li>• Agricultural Marketing, Trade and Prices</li> <li>• Farm Power and Machinery</li> <li>• NSS/NCC/Physical Education (Non-credit course)</li> </ul>	<ul style="list-style-type: none"> <li>• Practical Crop Production II (<i>Rabi</i> crops)</li> <li>• Insect Ecology and Integrated Pest Management</li> <li>• Livestock Production and Management</li> <li>• Agricultural Finance and Co-operation</li> <li>• Production Technology of Spices, Aromatics Medicinal and Plantation Crops</li> <li>• Breeding of Field and Horticultural Crops</li> <li>• Fundamentals of Rural Sociology and Edu. Psychology</li> <li>• Biochemistry</li> <li>• Crop Physiology –II</li> <li>• NSS/NCC/Physical Education (Non-credit course)</li> </ul>
<b>THIRD YEAR (Semesters V &amp; VI)</b>	<ul style="list-style-type: none"> <li>• Water Management Including Micro Irrigation</li> <li>• Pests of Field Crops and Stored Grain and Management</li> <li>• Post-harvest Management and Value Addition of Fruits and Vegetables</li> <li>• Dairy Cattle and Buffalo Production and Management</li> <li>• Diseases of Field Crops and their Management</li> <li>• Principles of Seed Technology</li> <li>• Fundamentals of Agri Business Management (Including Product Development, Appraisal and Monitoring)</li> <li>• Protected Cultivation and Post-harvest Technology</li> <li>• Extension Methodologies for Transfer of Agril. Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Introductory Nematology</li> <li>• Entrepreneurship Development</li> <li>• Environmental Science</li> <li>• Renewable Energy</li> <li>• Organic Farming</li> <li>• Farming Systems and Sustainable Agriculture</li> <li>• Manures, Fertilizers and Agrochemicals</li> <li>• Principles of Plant Biotechnology</li> <li>• Disease of Horticultural Crops and Their Management</li> <li>• Production Economics and Farm Management</li> <li>• Pests of Horticultural Crops and Their Management</li> </ul>
<b>FOURTH YEAR (Semester VII &amp; VIII)</b>	<ul style="list-style-type: none"> <li>• Rural Agricultural Work Experience (RAWE) Program Attachment to the Agro-based industries, Research Stations, KVKS, DAATT Centres</li> <li>• Educational Tour</li> </ul>	<ul style="list-style-type: none"> <li>• Courses for Experiential Learning (20 course credits)</li> </ul>

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

## Curriculum of Diploma Polytechnic in Agriculture

<p style="text-align: center;"><b>FIRST YEAR (Semester I &amp; II)</b></p>	<ul style="list-style-type: none"> <li>• Introductory Agriculture and Principles of Agronomy</li> <li>• Field Crop Production -I (Kharif)</li> <li>• Introduction to Soil Science</li> <li>• Fundamentals of Entomology</li> <li>• Economic Botany</li> <li>• Principles of Horticulture</li> <li>• Comprehension and Communication Skills in English</li> <li>• Biomathematics</li> <li>• NSS/NCC/Physical Education (Non-credit course)</li> </ul>	<ul style="list-style-type: none"> <li>• Field Crops-II (<i>Rabi</i>)</li> <li>• Principles of Insect Control</li> <li>• Production Technology of Fruit Crops</li> <li>• Bio Mathematics</li> <li>• Introductory Plant Pathology</li> <li>• Fundamentals of Agricultural Engineering</li> <li>• Principles of Livestock &amp; Poultry Production</li> <li>• Fundamentals of Extension Edu. and Communication</li> <li>• NSS/NCC/Physical Education (Non-credit course)</li> </ul>
<p style="text-align: center;"><b>SECOND YEAR (Semester III &amp; IV)</b></p>	<ul style="list-style-type: none"> <li>• Organic Farming and Sustainable Agriculture</li> <li>• Practical Crop Production (Kharif crops)</li> <li>• Plant nutrition, manures and fertilizers</li> <li>• Principles of Genetics</li> <li>• Pests of Field Crops and their management</li> <li>• Diseases of Field Crops and their management</li> <li>• Dairy Cattle and Buffalo Production &amp; Management</li> <li>• Production Technology of Fruit Crops</li> <li>• NSS/NCC/Physical Education (Non-credit course)</li> </ul>	<ul style="list-style-type: none"> <li>• Water Management</li> <li>• Weed Management</li> <li>• Diseases of Fruits and Vegetable Crops and their mgt.</li> <li>• Crop Physiology</li> <li>• Pests of Fruit and Vegetable Crops and their mgt.</li> <li>• Production Technology of Vegetable Crops</li> <li>• Post-harvest Technology</li> <li>• Introduction to Computer Application</li> <li>• NSS/NCC/Physical Education (Non-credit course)</li> </ul>
<p style="text-align: center;"><b>THIRD YEAR (Semesters V &amp; VI)</b></p>	<ul style="list-style-type: none"> <li>• Farming Systems and Farm Management</li> <li>• Agriculture Statistics</li> <li>• Production Technology of Flower Crops and Gardening</li> <li>• Introductory Plant Breeding</li> <li>• Agricultural Microbiology</li> <li>• Fundamentals of Soil Water Conservation and Engg.</li> </ul>	<ul style="list-style-type: none"> <li>• Seed Production Technology</li> <li>• Preservation and Value Addition in Horticultural Crops</li> <li>• Mushroom Production Technology</li> <li>• Green House Technology</li> <li>• Vermicompost</li> <li>• Educational Tour</li> </ul>