



Y B N UNIVERSITY

RAJALATU, NAMKUM, RANCHI (Jharkhand)

Established by the Act. of Government of Jharkhand Act. 15, 2017

Gazette Notification No. 505, Dated 17 July 2017

As per Section 2(f) of UGC Act. 1956

School of Agricultural Science

B.Sc. (Hons.) Agriculture

Program Outcomes (POs)

On completion of the four-year B.Sc. (Hons.) Agriculture, the students will be

PO – 1	Understanding the concepts of agriculture for their practical utility in Indian context
PO – 2	Understanding efficient utilization of agri-resources in farming
PO – 3	Improving of communication and learning skills
PO – 4	Analyzing strengths, weaknesses, opportunities and threats of modern technologies
PO – 5	Analyzing site-specific and tactical solutions under ambient and stressful situations.
PO – 6	Developing entrepreneurial skills and business management competence in agriculture and allied sectors.
PO – 7	Developing team spirit and leadership quality for searching novel solutions of site-specific agriculture.

Outline of the Program Specific Outcomes (PSOs)

On completion of four year B.Sc. (Hons.) Agriculture the students will be

PSO-1	Applying the knowledge of crop cultivation, crop improvement, soil and crop management for sustainable organic agricultural production and development.
PSO-2	Analysing and identifying complex agricultural problems and formulating ethical solutions using principles of agricultural science, engineering, and business.
PSO-3	Developing innovative processes, products, and technologies to meet the challenges in agriculture and farming practices

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School of Agricultural Science

M.Sc. (Ag.) in Agronomy

Program Outcomes (POs)

On completion of the two -year **M.Sc. (Ag.) in Agronomy**, the students will be

PO – 1	Apply advanced knowledge of agronomic principles for sustainable crop production.
PO – 2	Analyze and solve complex agronomic problems using scientific methods.
PO – 3	Conduct research and interpret data to improve cropping systems and farm practices.
PO – 4	Demonstrate leadership and teamwork in agricultural development and extension.
PO – 5	Use modern tools and technologies, including GIS and remote sensing, in agronomy.
PO – 6	Practice ethical values and environmental stewardship in all agronomic activities.
PO – 7	Communicate agronomic findings effectively to stakeholders, farmers, and peers.
PO – 8	Engage in lifelong learning to keep up with advances in agronomy and agriculture.

Program Specific Outcomes (PSOs)

On completion of the two -year **M.Sc. (Ag.) in Agronomy**, the students will be

PSO-1	Understand and apply crop production technologies suitable for different agro-climatic zones.
PSO-2	Design and manage integrated nutrient, weed, and water management strategies.
PSO-3	Develop location-specific and climate-resilient cropping systems for food and nutritional security.
PSO-4	Plan and execute research trials, analyze data, and publish findings in scientific forums.

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School of Agricultural Science

M.Sc. (Ag.) in Horticulture

Program Outcomes (POs)

On completion of the two -year **M.Sc. (Ag.) in Horticulture**, the students will be

PO – 1	Gain advanced knowledge and understanding in horticultural science and its sub-disciplines.
PO – 2	Develop problem-solving skills and analytical thinking in areas of crop production and management.
PO – 3	Acquire practical and research skills through fieldwork, lab experiments, and project work.
PO – 4	Apply scientific methods to address horticultural challenges using innovative technologies.
PO – 5	Demonstrate effective communication, leadership, and team collaboration in a professional setting.
PO – 6	Understand and apply ethical, environmental, and sustainability principles in horticulture.
PO – 7	Prepare for higher studies, competitive exams, entrepreneurship, or employment in relevant sectors.

Program Specific Outcomes (PSOs)

On completion of the two -year **M.Sc. (Ag.) in Horticulture**, the students will be

PSO-1	Apply advanced knowledge in fruit, vegetable, ornamental, plantation, and medicinal crops.
PSO-2	Design and implement horticultural experiments for crop improvement, production, and protection.
PSO-3	Utilize modern tools and technologies such as precision farming, tissue culture, and post-harvest techniques.

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