



ST. XAVIER'S COLLEGE, SIMDEGA

(Affiliated to Ranchi University, Ranchi)

P.O. GOTRA, DT. SIMDEGA, JHARKHAND, INDIA PIN-835235, www.sxesimdega.edu.in, Email. sxesimdega2016@gmail.com, Mob. 9931699162

ORGANIC FARMING

Session: 2021-2022

Vision of the Course:

- To promote sustainable agricultural practices by equipping students with the knowledge and skills of organic farming,
- To foster self-reliance, environmental awareness and economic empowerment in rural communities like Simdega.

Mission of the Course:

- To train students in organic farming techniques, emphasizing soil health, natural fertilizers, pest management, and eco-friendly farming methods.
- To integrate traditional wisdom with modern sustainable practices
- To enhance agricultural productivity while preserving biodiversity.
- To empower the students to establish organic farms, boost local food security, and create market linkages for organic produce.

Importance of this Course: In a rural area like Simdega, where agriculture is a primary livelihood source, organic farming can reduce dependency on chemical inputs, lower production costs, and improve soil fertility. By adopting organic methods, farmers can ensure healthier crops, increase income through premium organic markets, and contribute to environmental sustainability. This course will empower local youth with the skills to transform Simdega into a model for sustainable agriculture, promoting long-term rural prosperity.

Instructor: Asst. Prof. Rainy Alma Lakra

Duration: 90Days

Syllabus:

Syllabus for Organic Farming Course (15 Days Duration)

Day 1-15: Introduction to Organic Farming

- Definition, principles, and importance of organic farming
- Comparison between organic and conventional farming
- Role of organic farming in sustainable agriculture

Day 16-30: Soil Health and Fertility Management

- Understanding soil structure, fertility, and organic matter
- Organic soil amendments: Compost, vermicompost, green manure
- Soil testing and nutrient management



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Day 31-40: Natural Fertilizers and Bio-inputs

- Preparation and application of organic fertilizers (Jeevamrit, etc.)
- Introduction to bio-fertilizers and their role in soil health
- Crop rotation and intercropping for maintaining soil fertility

Day 41-50: Organic Pest and Disease Management

- Common pests and diseases in organic farming
- Use of biopesticides, neem extracts, and herbal solutions
- Integrated Pest Management (IPM) techniques

Day 51-60: Seed Selection and Organic Crop Production

- Importance of indigenous seeds
- Organic seed treatment methods
- Best practices for growing organic vegetables, grains, and pulses

Day 61-75: Livestock and Farm Integration

- Role of livestock in organic farming
- Organic dairy and poultry farming methods
- Waste recycling and manure management

Day 76-90: Certification and Marketing of Organic Products

- Organic certification process and standards (India Organic, Participatory Guarantee System (PGS) etc.)
- Branding, packaging, and marketing strategies for organic products
- Practical assessment and certification distribution