

ESSENTIAL SKILLS FOR SUSTAINABLE FOOD PRODUCTION Recognizing competencies for a greener future in agriculture

Key skills for sustainability



- Importance: Ensures organic food production.
- Action: Comply with organic farming standards.

Soft skills for sustainability

Problem-Solving

- Importance: Overcomes
- sustainability challenges.
- Action: Develop effective problem-solving strategies.

Effective communication

- Importance: Facilitates adoption of sustainable practices.
- Action: Enhance communication skills.

Teamwork and interpersonal skills

- Skill: Assess climate risks and apply adaptation strategies.
- Need: Equip workers with tools to address climate challenges.







Self-Management

- Importance: Adapts to dynamic work environments.
- Action: Strengthen resilience and adaptability.

Lifelong learning

- Importance: Keeps up with new practices and technologies.
- Action: Commit to continuous learning.

20 relevant skills have been found that students should acquire based on the skills gaps identified in the agri-food sector:

1. Advanced data management and analysis

- 2.Practical skills in data interpretation and statistical analysis using tools such as Excel
- 3. Digital entrepreneurship
- 4. Online data retrieval and digital content consumption
- 5. Quality assurance and testing procedures for digital product management systems
- 6. Practical skills in supplier management
- 7.Farm planning and resource optimization through farm management information systems
- 8. Field operations management using digital tools
- 9. Soil nutrient monitoring and management using digital solutions
- 10. Hands-on experience with robotic technologies for agricultural tasks
- 11.Integration and implementation of sensor technologies for data collection and analysis
- 12.Optimization of resource use and logistics management through advanced training programs
- 13.Intermediate and advanced knowledge of regenerative and carbon farming practices
- 14.Assessment of climate risks and implementation of adaptation strategies in agriculture
- 15. Crop modeling, simulation techniques, and relevant software applications
- 16. Sustainable water and energy management practices
- 17. Principles of soil health management and nutrient management techniques
- 18.Understanding and application of national and international environmental policies in agriculture
- 19. Corporate social responsibility practices and sustainability reporting
- 20.Identification and implementation of renewable energy systems suitable for agricultural operations





