



RAMA
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FACULTY OF AGRICULTURAL SCIENCES AND ALLIED INDUSTRIES

INSTITUTIONAL DEVELOPMENT PLAN (IDP)



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Faculty of Agricultural Sciences and Allied Industries

Rama University Uttar Pradesh, Kanpur

1. Introduction

Agriculture continues to play a crucial role in ensuring food security, rural development, and economic stability in India. With the increasing challenges posed by climate change, soil degradation, declining productivity, and emerging plant diseases, the role of agricultural education and research institutions has become increasingly important. Universities offering agricultural education must therefore continuously upgrade their academic programmes, research capabilities, infrastructure, and industry engagement to remain relevant in the rapidly evolving agricultural sector.

The Faculty of Agricultural Sciences and Allied Industries at Rama University, Kanpur aims to contribute to agricultural development through high-quality education, innovative research, and community outreach programmes. In alignment with national agricultural priorities and global sustainable development goals, the faculty seeks to strengthen its institutional capacity in research, innovation, entrepreneurship, and student employability.

This Institutional Development Plan (IDP) outlines a strategic roadmap for the next five years to enhance academic excellence, promote research and publications, develop modern infrastructure, strengthen industry partnerships, and improve student placement opportunities. The plan is also aligned with the quality benchmarks suggested by accreditation agencies such as National Assessment and Accreditation Council and agricultural education standards promoted by Indian Council of Agricultural Research.

2. Vision: Faculty of Agricultural Sciences and Allied Industries at Rama University aims to be recognized for its interdisciplinary education, research and innovation by harnessing



science and technology to produce excellent minds having understandings about sustainable food systems, nutritional security and natural resource management to combat prevailing global issues.

3. Mission: The mission of Faculty of Agricultural Sciences and Allied Industries at Rama University is:

- To develop excellent human resources and innovative technological interventions to enrich the farming community.
- To blend fundamental as well as high throughput research facilities for exploring new arenas of agricultural and allied sectors.
- To promote the exchange of scholars and students with National and International research and training organizations to excel them in academics, research as well as to meet out the industrial demands.

4. Objectives of the Institutional Development Plan

The key objectives of this development plan are:

- Strengthening research output and innovation capacity.
- Enhancing publication quality in reputed journals.
- Developing advanced laboratory and research infrastructure.
- Introducing skill-oriented certificate courses.
- Promoting faculty development and academic leadership.
- Improving student placement and entrepreneurship opportunities.
- Expanding national and international collaborations.
- Strengthening agricultural extension and farmer advisory services.

5. Thrust areas:

- **Research Excellence:** Promotion of high-quality, problem-oriented agricultural research
- **Research Publications and Academic Visibility:** Increasing the number of publications in Scopus and Web of Science indexed journals.



- **Academic Conferences and Knowledge Exchange:** Organization of international conferences on sustainable agriculture and crop protection and Hosting expert lectures by eminent scientists and industry professionals
- **Skill-Based Certificate Courses:** Introduction of short-term certificate courses aligned with industry needs
- **Infrastructure and Laboratory Development:** Strengthening research farm facilities with modern irrigation systems
- **Entrepreneurship and Agri-Business Development:** Establishment of an Agri-Innovation and Entrepreneurship Cell and Promotion of student-led agri-enterprises
- **Industry Collaboration and Student Placement:** Strengthening industry-academia partnerships and MoUs with leading agribusiness companies
- **Agricultural Extension and Farmer Outreach:** farmer training programmes and field demonstrations
- **National and International Collaboration**
- **Digital Agriculture and Smart Farming**
- **Sustainability and Climate-Resilient Agriculture:** Research on climate-resilient crop production systems

6. Strategic Development Areas

6.1 Research Development and Innovation

Research plays a central role in improving agricultural productivity and sustainability. The faculty aims to enhance its research output through structured research programmes and collaborative initiatives.

Key Strategies

1. Establish **Thematic Research Groups** in priority areas:
 - Plant pathology and crop protection
 - Integrated nutrient management

- Climate resilient agriculture
 - Precision farming and digital agriculture
 - Sustainable soil health management
2. Encourage **interdisciplinary research collaborations** with departments of biotechnology, environmental sciences, and engineering.
3. Seek research funding from national agencies such as:
 - Indian Council of Agricultural Research
 - Department of Biotechnology
 - Department of Science and Technology
4. Develop **experimental research farms and field laboratories** for crop trials and demonstration experiments.
5. Encourage **student participation in research projects and dissertations**.

Expected Outcomes

- Increased number of externally funded projects.
- Enhanced research publications and patents.
- Development of innovative agricultural technologies.

6.2 Research Publications and Academic Visibility

To improve academic reputation and knowledge dissemination, the faculty aims to increase the quantity and quality of research publications.

Proposed Initiatives

- Organize **scientific writing and publication workshops**.
- Establish an **internal research review committee** to guide manuscript preparation.
- Provide **incentives for faculty publishing in high-impact journals**.
- Promote publication in **Scopus and Web of Science indexed journals**.
- Encourage faculty to publish **books, book chapters, and review articles**.

Targets

- Minimum **55–65 research papers annually**.
- Increased faculty participation in international journals.

6.3 Conferences, Seminars, and Workshops

Academic events facilitate knowledge exchange and collaboration among scientists, researchers, and students.

Proposed Activities

- Organize **International Conferences on Sustainable Agriculture and Crop Protection.**
- Conduct **National seminars and symposiums** on emerging agricultural technologies.
- Arrange **hands-on training workshops** on advanced research techniques.
- Invite **distinguished scientists and industry experts** for guest lectures.

Expected Outcomes

- Increased academic networking.
- Exposure to modern agricultural research trends.
- Enhanced institutional reputation.

6.4 Certificate Courses and Skill Development

Skill-oriented education is essential for improving employability and entrepreneurship in the agricultural sector.

Proposed Certificate Courses

- Organic farming and certification
- Integrated pest management
- Biofertilizer and biopesticide production
- Protected cultivation technology
- Agricultural drone applications
- Seed technology and certification
- Agricultural data analysis and farm management

These courses may be offered as **short-term training programmes of 1–3 months duration** for students, farmers, and agricultural professionals.

6.5 Faculty Development Programmes (FDP)

Faculty members play a key role in ensuring academic excellence. Continuous professional development is therefore essential.

Proposed Activities

- Organize **Faculty Development Programmes twice a year.**

- Encourage faculty to participate in **national and international training programmes.**
- Conduct training workshops on:
 - Research methodology
 - Statistical analysis software
 - Intellectual property rights
 - Modern teaching tools and e-learning platforms.

Expected Outcomes

- Improved teaching effectiveness.
- Enhanced research productivity.
- Greater faculty participation in national academic programmes.

6.6 Infrastructure Development

Modern infrastructure is essential for effective teaching and research in agricultural sciences.

Proposed Facilities

- Advanced laboratories for:
 - Plant disease diagnostics
 - Soil and plant nutrient analysis
 - Molecular biology and biotechnology
- Development of **smart classrooms and digital learning systems.**
- Establishment of **central instrumentation facility.**
- Development of **greenhouses and polyhouse units.**
- Installation of **modern irrigation and precision farming equipment.**
- Development of **research farm infrastructure.**

6.7 Entrepreneurship and Innovation

Agricultural education must encourage students to become entrepreneurs rather than job seekers.

Proposed Initiatives

- Establish an **Agri-Innovation and Entrepreneurship Cell.**
- Develop an **Agribusiness Incubation Centre** for student startups.
- Organize **entrepreneurship development programmes.**
- Promote startups in areas such as:



- Organic farming enterprises
- Mushroom cultivation
- Biofertilizer production
- Value-added agricultural products
- Agri-technology services.

6.8 Student Placement and Industry Collaboration

Enhancing employability of graduates is an important institutional objective.

Strategies

- Establish a **Placement and Career Development Cell**.
- Sign **Memoranda of Understanding (MoUs)** with agribusiness companies.
- Provide **industrial internships and training programmes**.

Potential industry partners include:

- Bayer CropScience
- Syngenta
- UPL Limited
- ITC Limited
- Godrej
- Adama

Expected Outcomes

- Improved campus placement rates.
- Stronger industry-academia interaction.

6.9 Extension and Community Outreach

Agricultural universities play a crucial role in transferring technology to farmers.

Proposed Activities

- Organize **farmer training programmes and field demonstrations**.
- Conduct **on-farm trials for improved crop varieties and management practices**.
- Develop **mobile advisory services for farmers**.
- Publish **extension bulletins and farmer manuals**.

These activities will strengthen the university's role in rural development.

6.10 Expert Lectures and Distinguished Guest Lecture Series

Key Initiatives

Distinguished Scientist Lecture Series

Establish an **Annual Distinguished Scientist Lecture Series** inviting eminent scientists from premier institutions such as:

- Indian Agricultural Research Institute
- Indian Council of Agricultural Research
- National Academy of Agricultural Sciences
- Professionals from leading agribusiness companies

Expected Outcomes

- Exposure of students to **latest agricultural technologies and global research trends.**
- Strengthening of **industry–academia interaction.**
- Enhancement of **research collaboration and innovation.**
- Improvement in **teaching quality and academic environment.**

7. Monitoring and Evaluation

The implementation of the Institutional Development Plan will be monitored through:

- Annual review meetings of the faculty development committee
- Periodic evaluation of research publications and funded projects
- Assessment of student placement statistics
- Evaluation of faculty training and development programmes.

Performance indicators will be aligned with standards recommended by National Assessment and Accreditation Council and Indian Council of Agricultural Research.

8. Expected Impact

Implementation of this Institutional Development Plan is expected to result in:

- Improved quality of agricultural education and research.
- Increased research publications and funded projects.
- Enhanced infrastructure and laboratory facilities.



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- Stronger industry partnerships and student placement opportunities.
- Promotion of agricultural entrepreneurship and innovation.
- Greater contribution to sustainable agricultural development