



आचार्य नरेंद्र देव कृषि एवं प्रौद्योगिक विश्वविद्यालय,
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**Acharya Narendra Deva University of Agriculture
and Technology, Kumarganj, Ayodhya-224229**



COLLEGE OF AGRICULTURE

Program Outcomes

PO 1: Design experiments, analyze, synthesize and interpret data to provide solutions to different industrial problems by working in the pure, inter and multi-disciplinary areas of agricultural sciences.

PO 2: Enhance the scientific temper among the students to develop a research culture and implementation of the policies to tackle the burning issues at global and local level.

PO 3: Augment the recent developments in the field of green and eco-friendly reactions, and relevant fields of research and development.

PO 4: Create awareness and sense of responsibilities towards environment and apply knowledge to solve the issues related to environment and sustainability.

PO 5: To develop best problem-solving skills in students would encourage them to carry out innovative research projects thereby making them to use knowledge creation in depth.

PO 6: To develop critical and self-critical opinion and approach aiming at solving the most important practical problems in the field of agriculture by applying gained competencies and in accordance with high standards of academic integrity (ethics and moral) both in the profession and in society as a whole.

PO 7: To understand and analyze the current events and issues that are occurring in agriculture and how they affect futuristic agriculture.

PO 8: Understand the impact of the professional agricultural solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 9: To develop competence to work in Government, public and private sectors.

Program Specific Outcomes

PSO 1: Students shall have the ability to apply fundamental knowledge of various principles of crop production and soil management including agronomy, horticulture, soil science, plant protection, genetics and plant breeding and the scientific methods to solve problems in agriculture.

PSO 2: Students shall have the ability to integrate knowledge and concepts with the ethical and industrial perspectives of agriculture.

PSO 3: Students shall have the ability to work in groups or individually to develop written and oral presentations skills for effective communication of scientific concepts. Students are expected to engage in independent and lifelong learning in the context of agricultural advancements.

PSO 4: Student shall have the ability to apply major quantitative and computational skills and tools to solve problems in the agriculture industry.

PSO 5: Students shall demonstrate an ability to engage in critical thinking by analyzing situations.

COLLEGE OF VETERINARY SCIENCE AND ANIMAL HUSBANDRY

Program Outcomes (POs)

PO 1: Demonstrate knowledge of basic veterinary sciences that form the foundation of Veterinary practice.

PO 2: Demonstrate knowledge of clinical conditions to efficiently utilize the knowledge of Veterinary science in animal health care and production. To make student able to apply their knowledge, skills and the principle of scientific enquiry to analyse, evaluate and solve veterinary problems and synthesise diagnostic, therapeutic and prevention strategies.

PO 3: To engage students in professional development through the self-learning and keep abreast with the state-of-the-art technology needed for a successful professional career.

PO 4: To identify the problems, formulate the strategies and apply the veterinary know how research to solve issues of the livestock farmers.

Program Specific outcomes

PSO 1: The program has been designed in a way that helps in building a skilled clinician / veterinary officers who can start their own venture and become a successful entrepreneur.

PSO 2: The program also helps the students to pursue higher studies within the country or outside the country.

PSO 3: The students are being trained in way to attain the position of National or International reputed organizations like World Organisation for Animal Health ((OIE), CIRG Makhdoom, DUVASU, GADVASU etc.

PSO 4: Post graduate programs running in the college of veterinary science inculcates subject specific skills that has offered the opportunities to the students to go in academic, industry and research.

PSO 5: To imbibe professional and ethical attitude and effective communication skills.

PSO 6: The courses like Veterinary Clinical Practice I, II, inculcate the spirit of team work among the students and also prepare them to outshine in real life field conditions.

PSO 7: The program provides expertise to the students to handle the emerging infectious diseases of zoonotic importance by adopting 'One Health Approach'.

COLLEGE OF HORTICULTURE AND FORESTRY

Programme outcome:

After completion of the programme the students will be able to:

1. Transfer knowledge of Horticulture /Agriculture in the field of agricultural research especially in horticulture including fruits, vegetables, flowers, spices, mushroom, medicinal and aromatic plants and their management.
2. To make provision for quality education for students.
3. To attain excellence in education, research and extension in the field of horticulture.
4. Develop innovative agro-techniques to enhance the production and productivity of horticultural crops.
5. Increase farmers' income through adopting hi-tech horticulture.
6. Create job opportunities for the unemployed youths through teaching, research, training, extension etc., especially for the development of socially and economically depressed segment of society.
7. Establishment of model's nurseries in rural areas for availability of quality planting materials.
8. Conservation and exploitation of biological diversity through crop management.
9. Prolong the post-harvest storage life of horticultural commodities and increase income through value addition of the products and to reduce post-harvest losses.

Programme specific outcome:

On successful completion of the course, the students are expected to:

1. Provided knowledge from ancient to modern horticulture/agricultural practices.
2. Imparted in-depth practical knowledge in horticultural crop cultivation practices.
3. Gave detailed knowledge about agri-allied sectors.
4. Provide knowledge on working of different farm implements.
5. Served the rural horticulture/agricultural population.
6. Disseminated recent horticulture/agricultural technologies through extension.
7. Imported detailed knowledge on various horticulture/agri-business activities
8. Imported detailed knowledge on horticulture practices.
9. Developed self-confidence on entrepreneurship in the field of nursery production, commercial horticulture, value added products and mushroom production.

Programme outcome:

The programme offers various skill oriented courses viz.

- The courses focus on skill development, innovation and capacity building.
- Courses aim at making the students self-reliant with necessary proficiencies for a wide variety of career with entrepreneurial skills and placement.
- Specialized courses are in sync with industry-academic needs, national and global issues and challenges.
- Practical training/exposure through internship, field visits, project work, expert lectures, demonstrations, workshops and seminars provides hands-on experience to students.
- Students are sensitized towards challenges and solutions for societal development from grass-root level, i.e., home.
- Continuous innovations evolved through scientific researches in post graduate programs empower women and family with solutions to deal with everyday challenges.

Program specific outcomes

- Higher education- Most of students graduated per sue higher studies (M.Sc. ,Ph.D) in Prestigious universities.
- In academic and research organizations: Student can take-up job in schools, colleges and universities as Lecturer and Assistant Professor .They also join in various projects as Scientists , Research Associates and Senior Research Fellow.
- Post graduate student's can take-up job in different domains such as dietician in hospitals , Food inspector, Quality control managers/supervisors in food industries , Food research laboratories and catering establishment etc.
- As entrepreneurs student's can start their own business like boutiques, Fashion designer ,Crèche/Day care centre ,health clubs, Kitchen planner, Counsellors in Schools and Hospitals and Interior designers etc.
- They can also work with Government and Private agencies/NGO's working with young children , adolescents, women and elderly.
- They can also work in various Programmes related to women and child welfare as CDPO (Child Development Project Officer).

COLLEGE OF FISHERIES

Programme Outcomes(POs)

1. Broadening the horizon of the student's knowledge and ability to solve real world problems in the field of fisheries as for as the current scenario and future prospects of Indian and world fisheries is concern.
2. Development of an understanding about resource utilization, fish farming, and value addition of fish products and its marketing in appropriate way.
3. Development of skills in fisheries professionals to perform duties such as fish farm management, natural aquatic resource management to enhance the fish produce and its proper utilization and marketing.
4. Increasing the ability of students to identify, formulate and solve problems in a systematic way by appropriate collection, analysis, and interpretation of data and information.
5. Increasing their ability to design integrated fish production systems with other agriculture and allied sector to meet the desired needs of farmers in an environment friendly and socially acceptable way.
6. Development of understanding of socio-economical impact of fisheries and other agriculture allied sector, make fishery professional able to contribute in development of agriculture and fish farmers community in sustainable way through transfer of technology and innovative approach.
7. Enhancing their ability to practice in concern with environmental issues and related sustainable measures and be capable of carrying out environmental impact of a fish farming activity.
8. Informing students about moral, ethical and professional responsibilities.
9. Increasing the ability of students to communicate effectively by enhancing their report writing skills and oral presentation skills.
10. Providing the students with knowledge on contemporary issues in the field of fisheries and its importance in future prospects leading to development in ability of continuous and lifelong learning.

Programme Specific Outcomes

1. Development of understanding in fisheries resources, biodiversity, and its conservation in natural aquatic resources to keep genetic stability of commercial important fishes and resource utilization in sustainable way.
2. Development of understanding on culture based capture fisheries concept to utilize natural resources in maximum sustainable way.
3. Skill enhancement in various kind of aquaculture practices such as semi-intensive and intensive fish farming in coldwater, freshwater, brackish water and sea water.
4. Develops skill in integrated aquaculture system to produce diversified food items in limited available area such as Paddy cum fish farming, Vegetable based fish farming, Poultry/Duck/Cattle based fish farming and Aquaponics.

5. Develop skill in preparation and formulation of artificial feed along with skill development in operation of various parts of feed plants and its management.

MAHAMAYA COLLEGE OF AGRIL. ENGINEERING TECHNOLOGY

Program Outcomes(Common to All B.Tech and M. Tech. Pogrammes)

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engine erring specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problemsreaching substantiated conclusions using first principles of mathematics, natural sciences, and engineeringsciences.
3. **Design/development of solutions:** Designs olutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal,and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methodsincluding design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact to the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and omitted professional ethics and responsibilities and norm soft the engineering practice.
9. **Individual and teamwork:** Function effectively as an individual, and as a member or leader in diverse teams, and in multi disciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineeringcommunity and withsociety at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering andmanagement principlesand apply these to one's own work, as a member and leader in a team, to manageprojectsand in multidisciplinaryenvironments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in dependent and life-long learning in the broadest context of technological

change.

B.Tech-AgricultureEngineering

Program Specific Outcomes (PSOs)

Engineering Graduates will be able to:

1. Utilize adequate knowledge in different disciplines of agricultural engineering to gain better employment in various industries of agricultural engineering.
2. Use their expertise in planning judicious utilization of natural resources and their management through advanced soil and water conservation techniques and various irrigation and drainage methods with the skill of data interpretation.
3. Develop skills necessary to design the process and evaluate and come out with problem solutions of farm implements through adequate farm power for sustainable agriculture.
4. Apply the comprehensive knowledge of engineering properties of agricultural produce for upgrading the unit operation and further develop effective value added technologies and become strong in quality control.

B.Tech-ComputerScienceandEngineering

Program Specific Outcomes (PSOs)

At the time of graduation, students will be able to:

1. Application Development Skills: Design and development of web applications using various technologies such as HTML, JSP, PHP, ASP and ASP. NET to cater the needs of the society.
2. Enrich Research Skills: Offer solutions which impact geo-socioeconomic and Environmental scenario by using Machine Learning, Artificial Intelligence and IoT.

B.TECH-MechanicalEngineering

Program Specific Outcome (PSOs)

Engineering Graduates will be able to:

1. Expertise in handling machines of Manufacturing and emerging areas of Automation.
2. Design components for automotive applications.
3. Fabrication and Characterization of Composites and nano material's software

M.Tech-FarmMachinery

Program Outcomes

Program Specific Outcomes (PSOs)

The Post-Graduates will be able to:

1. Capable of synthesizing and analyzing of farm machinery and power and management systems in the field of agriculture.
2. Develop skills necessary to design the problem solutions of farm implements through adequate farm power for sustainable agriculture.

M. Tech-Processing and Food Engineering

Program Specific Outcomes (PSOs)

The students will be able to:

1. To inculcate technical writing and communicating ability for effective documentation and presentations and develop strong research aptitude through research work to enable the students to opt for higher level so learning in the field of Food Processing Technology.
2. To acquaint and equip students with professional and intellectual integrity, ethics of research and scholarship, impact of research outcomes on professional practices and responsibilities to contribute positively in the sustainable development of society.
3. To enable the students to get engaged in lifelong learning in dependently with the vigor and Zealand become capable to start-up their own businesses.