K.R. MANGALAM UNIVERSITY

THE COMPLETE WORLD OF EDUCATION

SCHOOL OF AGRICULTURAL SCIENCES

School Handbook

2025-26

Index

About the School

K.R. Mangalam University, located on Sohna Road, Gurugram, is a rapidly growing and highly promising institution in India's higher education landscape. Established in 2013 through an act of the Haryana Legislature under the Haryana Private Universities Act (Amendment) 8 of 2013, it is recognized by the University Grants Commission (UGC) under Section 2(f) of the UGC Act, 1956. The university is dedicated to fostering excellence in basic and professional education while upholding moral and ethical values.

The School of Agricultural Sciences (SOAS), a constituent of K.R. Mangalam University, was established in 2019 with the launch of its inaugural programme, B.Sc. (Hons.) in Agriculture. The School of Agricultural Sciences at K. R. Mangalam University is fully equipped with the facilities of laboratories and agriculture farms to carry out the Teaching, Practical, and Research work. All the faculty members are well qualified (Ph.D. in their respective fields) and well experienced. The faculty remains in constant touch with various experts in the relevant fields and is willing to experiment with the latest ideas in teaching and research. The School of Agricultural Sciences imparts students' technical knowledge, enhances their practical skill and ability, motivates them to think creatively, and helps them to act independently and make decisions accordingly in all their technical pursuits and other endeavors. It strives to empower its students and faculty members to contribute to the development of society and the Nation. This handbook is designed to guide you through the academic journey ahead and provide essential information about your course structure, policies, and opportunities during your studies. Agriculture is the backbone of many economies, and with a rapidly growing global population, the demand for innovative, sustainable agricultural practices has never been greater. As a student of agriculture, you are about to embark on a program that will not only deepen your understanding of farming systems but also equip you with the skills and knowledge needed to address pressing issues such as food security, climate change, and sustainable land management. This handbook serves as a roadmap for navigating the various academic, extracurricular, and professional opportunities available throughout your degree. The B.Sc. Agriculture curriculum is designed as per ICAR Vth Dean's Committee Report and to offer a comprehensive understanding of agronomy, horticulture, animal husbandry, soil science, plant breeding, and agricultural economics, among other fields. You will also be encouraged to gain hands-on experience through practical training, internships, and fieldwork, ensuring that your education is both theoretical and practical. It outlines the degree requirements, course descriptions, important policies, and the support systems in place to assist you. We hope this handbook will help you make the most of your time in the program and prepare you to contribute meaningfully to the future of agriculture.

1. University Vision and Mission

Vision

K.R. Mangalam University aspires to become an internationally recognized institution of higher learning through excellence in inter-disciplinary education, research, and innovation, preparing socially responsible life-long learners contributing to nation building.

Mission

- Foster employability and entrepreneurship through futuristic curriculum and progressive
- pedagogy with cutting-edge technology
- Instill notion of lifelong learning through stimulating research, Outcomes-based education, and innovative thinking
- Integrate global needs and expectations through collaborative programs with premier universities, research centres, industries, and professional bodies.
- Enhance leadership qualities among the youth having understanding of ethical values and environmental realities.

2. School Vision and Mission

Vision

To be an internationally recognized Agri-institute for agriculture education, research innovation, and Agri-entrepreneurship.

Mission

- Interdisciplinary approach, innovative pedagogy, stimulating research to foster Agri-based employability and entrepreneurship.
- Integrate global needs and expectations through collaborative programs with premier universities, research centers, industries, and professional bodies within India and abroad for global exposure & real-life work experience.
- Practicing cutting-edge-technologies, tools, techniques, practices, and processes in the field of agriculture
- Developing leadership, ethical values, and sensitivity to the environment.

Messages

Vice Chancellor- Prof. Raghuvir Singh

Congratulations on your admission to K.R. Mangalam University!
Dear Student,

I welcome you for joining K R Mangalam University.

You have taken the first step toward one of the most exciting times in your life, and everyone on the campus is committed to making your experience at KRMU worth remembering.

Established in 2013 KRMU has been implementing and adapting the ever-changing industry trends to be germane. At KRMU, we provide its students with the opportunity to excel in academics and in activities that make them global leaders altogether.

We have developed on a mission mode a system of preparing highly talented faculty in large numbers with specializations in diverse areas (interdisciplinary and trans disciplinary areas) with more autonomy and awards for productivity in terms of pedagogy, skill enhancement, research and mentor for creativity and innovations.

Our programmes have been tailored with the help of industry/Alumni especially catering to the career paths for each student based on his STEM (Science Technology, Engineering & Math's) or STEAMM and Arts, commerce and Management with skills that match industry needs, updated curriculum, focus on employability skills, Internship Programmes, Corporate/Company Trips, Case Competitions, Consulting Field Projects, Teamwork and mentor's mentee relationships.

The curriculum is updated based on Values framework of NAAC (National Accreditation and Assessment Council) i.e., Contributing to National Development, Fostering National Global Competencies, inculcating a Value System, Promoting the Use of Technology and quest of excellence among Students. Our programmes are customized with career paths for placements with high salaried jobs and the upcoming 4th Industrial Revolution the advent of "cyber-physical systems" involving entirely new capabilities for people and machines.

Employability is being enhanced by Cross cultural programmes, International Exchange Student Programmes, Global Education/Knowledge, Global Scoring Systems, Corporate Alliances, Mentoring by Alumni, Dedicated Career Management Center and entrepreneurship programme through Innovation Ecosystem.

The endorsement of the quality of education imparted at K.R. Mangalam University and its allied schools are the trust of over 150+ companies who have visited the campus year after year to recruit our corporate-ready students.

We are pleased to offer you provisional admission to KRMU. Your admission to the university will be confirmed and you will be registered as our student when we have scrutinized your documents and eligibility as per the university policies.

Wishing you all the very best for a great academic journey at KRMU!

Dean- Prof. (Dr.) Joginder Singh Yadav

As the Dean, my vision would encompass several key elements namely, Innovation and Technology Integration (precision agriculture, biotechnology, and digital farming to enhance productivity, sustainability, and resilience in agriculture), Sustainable Agriculture, Biodiversity Preservation, Entrepreneurship, and Agribusiness, Foster an entrepreneurial mindset among students and faculty, encouraging them to develop innovative solutions and create value in the agricultural sector, Research and Development, Collaboration and Partnerships with industry, government, and international organizations, Education and Training, and Community Engagement. The school is blessed with admirable faculty members having trained at different national and international institutions and excellent infrastructure facilities for teaching, research, and outreach activities including RAWE/READY programme as per ICAR guidelines. “Students First” is always at the top of the list of priorities set at K R Mangalam University. A special focus is placed on agro-based skill-oriented activities such as organic farming, sustainable agriculture, beekeeping, mushroom cultivation, vermicomposting, dairying, and horticulture.

We look forward to seeing you grow, thrive, and make a difference in the world.

3. School Boards and Committees

Board of Studies

The Board of Studies of SOAS consists of the following members:

S. No.	Name	Designation
1.	Prof. (Dr.) Joginder Singh Yadav	Chairperson (Dean & Professor, Agronomy)
2.	Dr. Dinesh Kumar	Member (Assistant Professor- Soil Science)
3.	Dr. Neha Sharma	Member (Assistant Professor - Microbiology)
4.	Dr. Rabiya Basri	Member (Assistant Professor – Entomology)
5.	Dr. Anjali Tomar	Member (Assistant Professor- Agri. Extension)
6.	Dr. Ambika Bhandari	Member (Assistant Professor -Horticulture)
7.	Dr. Pankaj Gupta	Member (Professor- SMAS)
8.	Dr. H.D. Kaushik	External Member (Professor, Retd. CCSHAU)
9.	Dr. S.K. Sharma	External Member (Professor, Retd. CCSHAU)
10.	Dr. Deepak Kumar	Member Secretary (Assistant Professor- Genetics and Plant Breeding)

The tenure of the Board of Studies Committee, School of Agricultural Sciences, K.R. Mangalam University members will be two years from the date of the notification.

Academic Coordination: Roles and Responsibilities

To achieve the vision and mission of SOAS, the school operates with a well-defined organizational structure, where every individual plays a pivotal role in ensuring the smooth functioning of academic and administrative activities. From strategic leadership to hands-on support for students, each role contributes to creating a conducive environment for learning, growth, and collaboration. Below is an outline of the key roles and responsibilities within the school.

Dean: Prof. (Dr.) Joginder Singh Yadav is dean of School of Agricultural Sciences. He provides strategic leadership for the school, overseeing academic, research, and administrative functions. He ensures the development, implementation, and periodic revision of academic programmes and curriculum while monitoring and enhancing the quality of education and research output. Acting as a liaison between the school and university administration, students, parents, and external stakeholders, the Dean facilitates collaborations, partnerships, and

resource allocation. He manages the school's budget, oversee faculty recruitment and development, and address grievances to maintain a conducive environment for teaching and learning.

Programme Coordinator: The Programme Coordinator ensures the smooth execution of academic programmes, aligning them with university policies. They work closely with faculty to design, update, and deliver course content effectively while addressing student academic issues and monitoring their progress. Coordinating with the timetable coordinator, they ensure proper scheduling of courses and maintain records for accreditation compliance. The coordinator also fosters communication among faculty members teaching within the programme. Dr. Deepak Kumar is the programme coordinator and taking care all the above-mentioned academic activities.

Mentor: Every student enrolled in the school is considered a mentee and will be assigned a faculty member as their mentor. The mentor's role is to guide and support the mentee, helping them grow both personally and professionally. Mentors act as coaches by giving feedback, sharing advice, and offering insights from their own experiences. They also challenge the mentee's thinking, help them make important decisions, and connect them to valuable resources and networks. Additionally, mentors provide emotional support, celebrating successes and offering encouragement during tough times. On the other hand, the mentee's role is to actively participate in the learning process by planning meetings, setting goals, and communicating openly with their mentor. Mentees should also apply what they learn, continue growing outside the mentor-mentee relationship, and stay proactive in seeking new opportunities. By staying committed and enthusiastic, mentees can make the most of this relationship and achieve their goals. Following is the list of mentors of SOAS:

Dr. Rabiya Basri

Dr. Ambika Bhandari

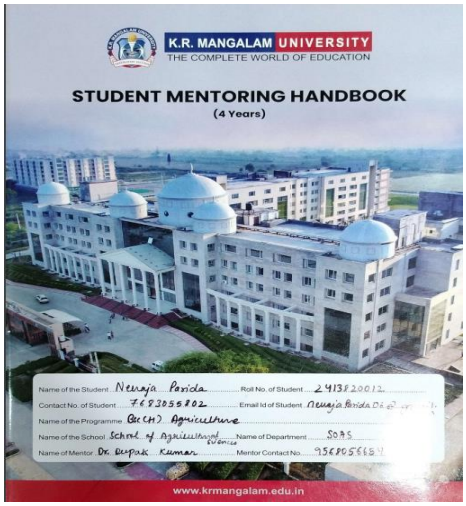
Dr. Neha Sharma

Dr. Gajraj Yadav

Dr. Anjali Tomar

Dr. Jay Nath Patel

Dr. Deepak Kumar



Glimpse of student mentoring handbook manitain by Mentors for each mentee separately.

Timetable Coordinator: The Timetable Coordinator manages the academic schedule for all programmes within the school, ensuring proper allocation of faculty and resources. They resolve scheduling conflicts, collaborate with lab supervisors for seamless lab sessions, and promptly communicate timetable updates to faculty and students. By optimizing classroom and lab usage, the coordinator ensures smooth academic operations. Dr. Deepak Kumar is a timetable coordinator for SOAS.

Examination Coordinator: The Examination Coordinator organizes internal assessments, mid-semester, and end-semester examinations in coordination with the university examination cell. They oversee the preparation, submission, and confidentiality of question papers and manage the invigilation schedule. Additionally, they supervise the evaluation process, ensuring accurate and timely submission of results while adhering to university examination policies and procedures. Dr. Deepak Kumar is a timetable coordinator for SOAS

Lab/Field In-Charge: The Lab Supervisor is responsible for maintaining the functionality and organization of laboratories. They manage the inventory of equipment and consumables, ensure compliance with safety protocols, and assist faculty and students during lab sessions. By providing a well-equipped and safe environment for experiments, the supervisor supports effective practical learning. Lab/field In-charge of different Labs are listed below:

Dr. Ambika Bhandari- Horticulture and Post Harvest Laboratories

Dr. Jay Nath Patel- Farm & Agronomy Laboratory

Dr. Gajraj Yadav- Vermicompost & Soil Science Laboratory

Dr. Rabiya Basri- Entomology and Pathology

Mr. Aamir Khan- Farm Supervisor

Besides the above roles and responsibilities, each faculty brings subject expertise to their teaching, research, and mentoring roles. They design and update course content to align with modern developments, conduct impactful research, and publish their findings. Teachers guide students in discipline-specific projects and research while fostering interdisciplinary collaborations. They also organize seminars, workshops, and conferences to provide students and faculty with exposure to current advancements and industry trends.

This structure promotes efficiency in academic and administrative operations while ensuring holistic student development and academic excellence.

4. Faculty and Staff

The School of Agricultural Sciences (SOAS). The faculty includes all core disciplines of agriculture and allied sciences faculty members serve academic duties as per requirements. All the total faculty have earned their doctoral degrees, and 06 are NET qualified. The faculty composition includes 1 Professors, 7 Assistant Professors. Additionally, the non-teaching staff consists of one Lab Technicians and 1 farm supervisor. All faculty members at SOAS are experienced, motivated, and hardworking, equipped with the necessary qualifications and expertise to guide and mentor students effectively, ensuring a high-quality educational experience.

List Of Faculty Members

S. No.	Name	Designation
1.	Prof. (Dr.) Joginder Singh Yadav	Dean & Professor, Agronomy
2.	Dr. Gajraj Yadav	Assistant Professor- Soil Science
3.	Dr. Neha Sharma	Assistant Professor - Microbiology
4.	Dr. Jay Nath Patel	Assistant Professor - Agronomy
5.	Dr. Rabiya Basri	Assistant Professor – Entomology
6.	Dr. Anjali Tomar	Assistant Professor- Agri. Extension
7.	Dr. Ambika Bhandari	Assistant Professor -Horticulture
8.	Dr. Deepak Kumar	Assistant Professor- Genetics and Plant Breeding

5. School Infrastructure (Physical and learning)

The School of Agricultural Sciences offers a comprehensive range of teaching and learning resources that enhance both the academic experience and professional preparedness of students. Its state-of-the-art infrastructure includes smart classrooms with modern teaching tools, a well-established smart polyhouse and shade net for protected cultivation, commercial mushroom unit (a student start-up), vermicompost unit, high-tech nursery with modern tools, fruit orchid, crop cafeteria with drip irrigation system, complete rain water harvesting unit, biogas plant, medicinal garden, landscaping unit, a well-stocked library, computer labs, and specialized laboratories-agronomy, horticulture, soil science, plant protection, botany, agriculture engineering, extension and a Central Instrumentation Facility for research. The school also employs highly qualified and experienced PhD faculty, ensuring expert guidance in both theoretical and practical learning.

In addition to physical infrastructure, the school provides a robust virtual environment with tools like an LMS (Moodle) for coursework management, virtual labs for remote experimentation, and 24/7 Wi-Fi access, fostering a flexible and technology-driven learning experience. The integration of Massive Open Online Courses (MOOCs)

and experiential learning opportunities ensures that students are well-prepared for academic success and professional excellence. The curriculum is carefully designed to engage students across all levels of Bloom's Taxonomy, promoting not only cognitive development but also emotional, social, and ethical growth. Continuous feedback from stakeholders, including faculty, industry experts, students, and alumni, ensures that the curriculum remains current, relevant, and aligned with the evolving needs of academia and industry.

Mushroom Cultivation and Value Addition

High-tech Polyhouse & Shade-Net

6. Best Practices: Solid Waste Management (Brown and Green Waste Management) and Vermicomposting Production-

The School of Agricultural Sciences (SOAS) at K.R. Mangalam University fosters a dynamic and holistic learning environment by integrating various best practices into its educational framework. These practices combine academic rigor with real-world applications, ensuring that students not only acquire theoretical knowledge but also develop practical skills, critical thinking, and a sense of social responsibility. SOAS emphasizes the importance of experiential learning, encouraging students to engage with community-driven initiatives and sustainability projects that bridge the gap between classroom education and societal needs.

Solid waste management is a critical aspect of environmental sustainability, addressing the proper collection, treatment, and disposal of waste. Brown and green waste, commonly categorized as organic waste, play a significant role in waste management systems. The best practices for managing brown (carbon-rich) and green (nitrogen-rich) waste to minimize environmental impact and optimize resource recovery. Effective management of brown and green waste is essential for environmental conservation and sustainable development. By implementing the best practices, institutes, communities and industries can significantly reduce waste, lower greenhouse gas emissions, and create valuable by-products like compost and biogas. A collaborative approach involving education, infrastructure development, and innovative technologies is key to achieving long-term success in organic waste management. Vermicomposting is a sustainable and effective method for managing

organic waste while producing a valuable by-product that supports agriculture and gardening. With proper practices and infrastructure, it offers significant environmental and economic benefits, contributing to a circular waste management system. This hands-on involvement allows students to gain valuable experience while contributing positively to their surroundings. Parallel to this, SOAS promotes innovation in environmental sustainability through a variety of practical initiatives. Students are encouraged to engage in sustainability-focused projects, such as waste reduction, water conservation, and the development of eco-friendly solutions. These initiatives are embedded within the curriculum and are further supported by research opportunities that explore cutting-edge environmental challenges. Faculty members collaborate with environmental organizations and guide students through real-world case studies, where they apply their academic knowledge to solve complex environmental problems. The integration of environmental studies into the curriculum ensures that every student is equipped with the knowledge and skills to contribute to sustainability efforts, making them well-prepared for careers in the growing field of environmental science and sustainability.

Together, these best practices at SOAS create a comprehensive learning experience that combines academic learning with community involvement and environmental responsibility. Through these initiatives, students not only develop cognitive and psychomotor skills but also learn the importance of innovation, critical thinking, and active citizenship. The combination of classroom knowledge with real-world applications enhances students' academic engagement while promoting a deeper connection between education and its impact on society. This holistic approach ensures that graduates from SOAS are not only academically proficient but also responsible, ethical professionals ready to make meaningful contributions to the world.

Brown and Green Waste Management

Production of Vermi-Compost for Organic Farming

INSTITUTIONAL DISTINCTIVENESS

7. School Education Philosophy

The educational philosophy of the School of Agricultural Sciences is built on fostering intellectual curiosity, critical thinking, and the practical application of scientific knowledge. Emphasizing a student-centric approach, SOAS integrates foundational science with real-world challenges, preparing students for leadership roles in both academia and industry. Through collaborations with national and international institutions, research organizations, and industries, the school provides cutting-edge resources and hands-on experiences that bridge the gap between theory and practice. SOAS is committed to empowering students with technical expertise while instilling ethical values, social responsibility, and a lifelong commitment to learning. The aim is to nurture well-rounded, innovative, and responsible individuals ready to contribute to scientific advancement and societal betterment.

8. Educational Pedagogy (Inside and outside classroom)

The School of Agricultural Sciences (SOAS) at K.R. Mangalam University has adopted an outcome-driven

learning pedagogy that ensures a balanced focus on both cognitive and psychomotor development, promoting the overall intellectual and emotional growth of students. This structured approach is designed to cover all aspects of learning—cognitive, psychomotor, and affective—ensuring that students not only master the academic content but also develop essential life and professional skills.

Inside the classroom, SOAS emphasizes cognitive development by employing student-centric learning techniques such as detailed demonstrations, interactive workshops, guest lectures by industry experts, and hands-on practicals in well-equipped laboratories. These methods ensure that students engage deeply with the subject matter, building strong foundational knowledge and critical thinking skills. The practical aspect of learning allows them to directly observe and experiment with scientific principles, reinforcing theoretical knowledge and fostering a deeper understanding of complex concepts.

Hands on Training on Food processing and value addition

Workshop on Mass Production on Biofertilizers

Visit to IFFCO (Indian Farmers Fertilizer Cooperative Limited) Gurgaon

Visit to Aravali Biodiversity Park

Students have demonstrated the method ofthe obtaining color and their use for dying fabric and as food color

Hands-on Training on Tomato Catch-up Preparation

Case Study on Rice Residues Management

Project on Survey & Promoting Organic Farming

Training on Commercial Beekeeping

9. Evaluation

a. Evaluation scheme for theory courses

Evaluation Component	Weightage
Internal Marks (Theory): - **I) Continuous Assessment (30 Marks)**	

(All the components to be evenly spaced) Projects/ Quizzes/ Assignments and Essays/ Presentations/ Participation/ Case Studies/ Reflective Journals (minimum of five components to be covered)	30 Marks
Mid Term Exam	20 Marks
External Marks (Theory): – End Term Examination	50 Marks

* **(It is compulsory for a student to secure 40% marks in the Internal and End Term Examination separately to secure minimum passing grade).**

Overview of Internal Evaluation (30 Marks) –

Internal evaluation is designed to assess students' ongoing learning and application of course materials through diverse assessment methods. Instructors have full autonomy within the 30 marks to employ assessment strategies that best align with the course's learning objectives.

Recommended Assessment Types: -

Projects: - Individual or group projects focusing on research, analysis, and practical application of concepts.

Quizzes: - Regular, short assessments to evaluate understanding of the material.

Assignments and Essays: - In-depth tasks to assess critical thinking and problem-solving skills.

Presentations: - Assessing knowledge dissemination and communication skills.

Participation: - Evaluation of engagement and contributions to class activities.

Case Studies: - Application of theoretical knowledge to real-world scenarios.

b. Evaluation scheme for practical courses

Particular	Weightage
Internal Marks (Practical): -	
I) Conduct of Experiment	10 Marks
II) Lab Records	10 Marks
III) Lab Participation	10 Marks
IV) Lab Project	20 Marks
External Marks (Practical): - End Term Practical and Viva Voce	50 Marks

* **(It is compulsory for a student to secure 40% marks in Internal and End Term Practical's and Viva Voce separately to secure minimum passing grade).**

c. Evaluation scheme for research project

Particular	Weightage
Internal Marks: - (Punctuality, Performance, Work Ethics, Efforts and Research Output)	50 Marks
External Marks (Practical): - Presentation Report Writing Viva Voce	50 Marks 20 10 20

*(**It is compulsory for the student to provide an internship certificate issued by the relevant institution or organization where they completed their internship during the evaluation process.)**

d. Evaluation scheme for Internship

Particular	Weightage
Internal Marks: - Internship completion certificate obtained from supervisor from host institute.	30 Marks
External Marks (Practical): - Presentation Report Writing Viva Voce	70 Marks 25 25 20

e. Grading System

Based on the performance in all evaluation components of a Course, each student will be awarded a final grade in the Course registered, at the end of the semester. The total marks obtained by a student in the Course will be converted to a corresponding letter grade as described below.

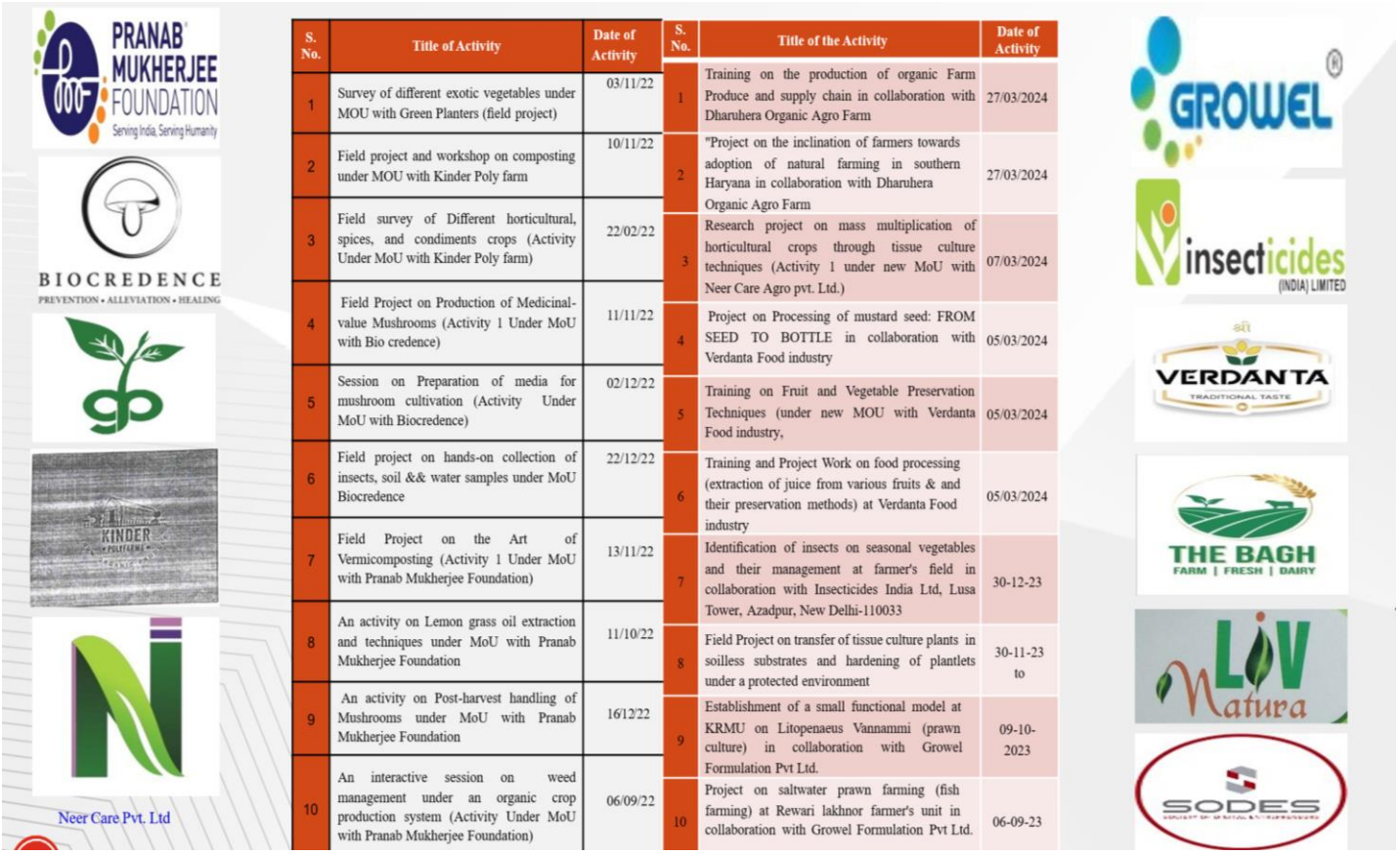
Marks Range (%)	Letter Grade	Grade Points	Description of the Grade
% marks > 90%	O	10.0	Outstanding
80 < %marks ≤ 90	A+	9.0	Excellent
70 < %marks ≤ 80	A	8.0	Very Good
60 < %marks ≤ 70	B+	7.0	Good
55 < %marks ≤ 60	B	6.0	Above Average
50 < %marks ≤ 55	C	5.5	Average

40 ≤ %marks ≤ 50	P	5.0	Pass
%marks < 40	F	0	Fail
-	AB	0	Absent
%marks ≥ 50	S	-	Satisfactory
%marks < 50	U	-	Unsatisfactory
-	W	0	Withdrawal

10.Collaborations

The School of Agricultural Sciences (SOAS) actively engages in collaborations through Memorandums of Understanding (MoUs) with various, research, and industrial institutions. These partnerships facilitate a range of activities designed to promote the academic and professional growth of both students and faculty. Under these MoUs, SOAS organizes student internship programmes, offering practical industry exposure, and educational visits that broaden students' understanding of real-world applications. Collaborative research efforts often result in joint publications and patents, enhancing the school's contribution to scientific advancements. Additionally, workshops, seminars, and Faculty Development Programmes (FDPs) are conducted regularly, providing opportunities for skill development, knowledge sharing, and networking with experts from diverse fields. These initiatives help students and faculty stay updated with the latest trends and advancements, fostering overall progress in their academic and professional journeys.

At present, the School of Basic and Applied Sciences (SOAS) has signed 11 Memorandum of Understanding (MoUs) with various esteemed institutions, fostering collaborations and enhancing academic and research opportunities. The list of MoUs partners and recent activities with collaboration are mentioned below:



S. No.	Title of Activity	Date of Activity
1	Survey of different exotic vegetables under MOU with Green Planters (field project)	03/11/22
2	Field project and workshop on composting under MOU with Kinder Poly farm	10/11/22
3	Field survey of Different horticultural, spices, and condiments crops (Activity Under MoU with Kinder Poly farm)	22/02/22
4	Field Project on Production of Medicinal-value Mushrooms (Activity 1 Under MoU with Bio credence)	11/11/22
5	Session on Preparation of media for mushroom cultivation (Activity Under MoU with Biocredence)	02/12/22
6	Field project on hands-on collection of insects, soil && water samples under MoU Biocredence	22/12/22
7	Field Project on the Art of Vermicomposting (Activity 1 Under MoU with Pranab Mukherjee Foundation)	13/11/22
8	An activity on Lemon grass oil extraction and techniques under MoU with Pranab Mukherjee Foundation	11/10/22
9	An activity on Post-harvest handling of Mushrooms under MoU with Pranab Mukherjee Foundation	16/12/22
10	An interactive session on weed management under an organic crop production system (Activity Under MoU with Pranab Mukherjee Foundation)	06/09/22

S. No.	Title of the Activity	Date of Activity
1	Training on the production of organic Farm Produce and supply chain in collaboration with Dharuhera Organic Agro Farm	27/03/2024
2	"Project on the inclination of farmers towards adoption of natural farming in southern Haryana in collaboration with Dharuhera Organic Agro Farm	27/03/2024
3	Research project on mass multiplication of horticultural crops through tissue culture techniques (Activity 1 under new MoU with Neer Care Agro pvt. Ltd.)	07/03/2024
4	Project on Processing of mustard seed: FROM SEED TO BOTTLE in collaboration with Verdanta Food industry	05/03/2024
5	Training on Fruit and Vegetable Preservation Techniques (under new MOU with Verdanta Food industry,	05/03/2024
6	Training and Project Work on food processing (extraction of juice from various fruits & and their preservation methods) at Verdanta Food industry	05/03/2024
7	Identification of insects on seasonal vegetables and their management at farmer's field in collaboration with Insecticides India Ltd, Lusa Tower, Azadpur, New Delhi-110033	30-12-23
8	Field Project on transfer of tissue culture plants in soilless substrates and hardening of plantlets under a protected environment	30-11-23 to
9	Establishment of a small functional model at KRMU on Litopenaeus Vannammi (prawn culture) in collaboration with Growel Formulation Pvt Ltd.	09-10-2023
10	Project on saltwater prawn farming (fish farming) at Rewari lakhnor farmer's unit in collaboration with Growel Formulation Pvt Ltd.	06-09-23

About the Programme:

The School of Agricultural Sciences on inception in the year 2019 has started the undergraduate degree programme of B.Sc. (Hons.) in Agriculture. It is designed to impart theoretical and practical knowledge and extension work. The hands-on experience helps to enrich student's skills and competence, as required by the industries and farmers today. Realizing the potential of agricultural industry, rising food demands and in lined requirement of trained human resource, the course of B.Sc. (Hons.) Agriculture has been developed. The School of Agricultural Sciences provides knowledge on a wide array of agricultural sciences and its related areas. Students will gain fundamental skills and knowledge in agriculture and related domains. The programme focuses on developing professional capabilities, skills and competence required in the field of agriculture. The Courses are composed of theory classes and practical in labs as well as on agriculture farms. The students are exposed to farmers' fields and attached with the farmers in the villages and agri-based Industries. Lab's work, site visits, seminars, workshops and educational tours in different Indian Agriculture Universities along with excursion tours are aimed to develop conceptual and analytical abilities of students as well as giving them practical and real time experience. The students are being trained in Agri- based and entrepreneurial skills like Organic farming,

Herbal and Medicinal plant cultivation, Protected cultivation, Bee-keeping, Mushroom cultivation and Value-added Fruit and Vegetable Products preparation.

As per the NEP- 2020 recommendations, the Sixth Deans' Committee has incorporated following several new initiatives in the proposed restructured UG curricula.

Classification of level of courses with targeted outcomes

The courses have been classified as per the level of teaching and also based on targeted outcome.

- The 1st year of the UG programme (NHEQF Level 4. 5) include the Foundation courses, introductory courses and skills enhancement courses/training in the chosen area, ability enhancement courses. It is aimed that students will acquire the basic knowledge in respective disciplines and adequate skill in some selected areas, to enable them for employment/ entrepreneurship.
- The 2nd year (NHEQF Level 5) includes the basic core courses and additional skill enhancement in chosen areas/ courses. It is aimed that the students will acquire the higher-level knowledge in respective disciplines and adequate skills in some selected areas, to enable them employment at middle level/ supervisory level or for entrepreneurship.
- The 3rd year includes the advanced core subjects and their practical applications with an objective that the student will have deeper understanding of the subjects and their major application areas.
- The 4th year (NHEQF Level 6) will have specialization/ elective courses and advanced skill enhancement through projects and internship. The student will acquire advanced knowledge and skill in different areas to meet the higher order requirements of society and industry as well as other prospective employers. It will also enable the graduates to become a job provider rather than a job seeker through establishment of enterprises in concerned fields.

Multiple Entry and Exit

- There is provision of multiple entry and exit at different levels. The students will have the option to exit after the 1st year. He/she must complete 10 weeks of internship (10 credits) after 1st year (2 semesters) to be eligible for award of UG-Certificate.
- The student has another option to exit after the 2nd year. The student must complete another 10 weeks of internship (10 credits) after 2nd year (4 semesters) to be eligible for award of UG-Diploma.
- No exit after 3 years (6 semesters) is recommended considering the professional nature of the courses.

- ❖ After four years of study, the student will be awarded a UG degree in concerned discipline.
- ❖ The lateral entry at 3rd semester will be for the candidates having UG-certificate or those who have completed Diploma (3 years course after 10th) in recognized HAEIs. The lateral entry in the 5th semester will be for candidates who have completed UG-Diploma.

Programme Outline:

B.Sc. (Hons.) Agriculture undergraduate programme has been carried out as per National Education Policy-2020 guidelines to build among students a strong foundation of knowledge and increased practical exposure to install competence and confidence for application of the professional knowledge coupled with hard and soft skills. New scientific advancements in the field of agriculture have been also given due emphasis with inclusion of courses with contents from such areas.

More emphasis has been given on Skill Enhancement Courses, industry attachments, flexibility in choice of courses via electives offered in fourth year and also through online courses along with provision of project work and internship. Provision of UG-Certificate in Agriculture, UG-Diploma in Agriculture and B.Sc. (Hons) Agriculture degree with internship with amalgamation of multiple exit and entry options as per NEP-2020 is important change in the course curriculum.

The restructuring has been done based on the following NHEQF levels:

- ❖ Year 1, Certificate Course, NEP-NHEQF Level 4.5
- ❖ Year-2, Diploma Course, NEP-NHEQF Level 5.0
- ❖ Year 4, B.Sc. (Hons.) NEP-NHEQF Level 6.0

The restructured program for the undergraduate agriculture education with multiple entry and exit options is illustrated in the below-mentioned Figure.

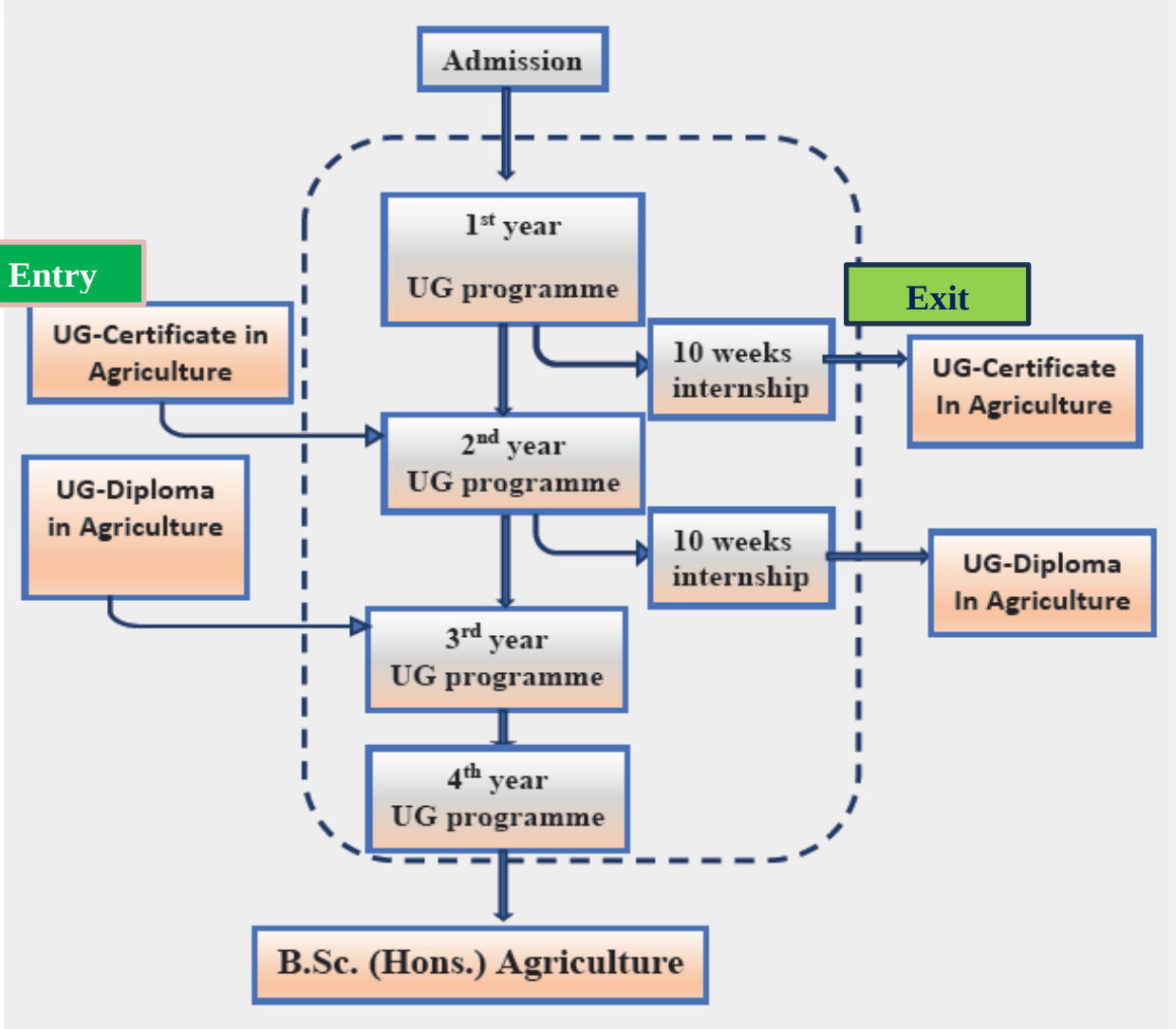


Fig. Entry and Exit options for the UG programme in Agriculture

Program Educational Objectives (PEOs): Programme Educational Objectives of a degree programme are the statements that describe the expected achievements of graduates in their career, and what the graduates are expected to perform and achieve during the first few years after graduation.

PEO 1: Encourage personal growth among students and boost their self-confidence, giving them opportunities to be an integral part of the agro-industry.

PEO 2: Successful agricultural professionals, entrepreneurs, administrators, and agri-industry

PEO 3: Ethical in conduct, good human in respect to good character.

Program Outcomes (PO); Programme Outcomes are statements that describe what the students are expected to

know and would be able to do upon the graduation. These relate to the skills, knowledge, and behavior that students acquire through the programme.

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

PO1: Acquiring in-depth knowledge of agriculture and its allied branches to apply packages of practices for crop cultivation.

PO2: Having the ability to solve agricultural problems with creativity.

PO3: Developing abilities to work successfully in a team with all the stakeholders of agricultural sectors.

PO4: Capable of dealing with people and resolving their interpersonal relationship issues.

PO5: Recognizing and meeting emerging challenges in the agriculture of global society in the 21st century and developing leadership and strong linkages in the agro-industrial setup.

PO6: Applying ethical principles, professional ethics, and norms of scientific practices.

PO7: Employing improved scientific know-how for raising the income of farmers with forestry, horticulture, poultry, organic farming, beekeeping, mushroom cultivation, through integrated farming systems, etc. so that the farming community might be contributing to Viksit Bharat.

PO8: Having the ability to design layouts, conduct experiments, analyse and interpret data.

PO9: Having good communication skills.

PO10: To develop critical opinions and approaches to solve the most important practical problems by applying modern technologies.

Programme Specific Outcomes (PSOs): Programme Specific Outcomes define what the students should be able to do at the time of graduation and they are programme specific. There are two to four PSOs for a programme.

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

PSO1: Understanding the concepts, theories, tools, techniques, models, methods, and principles in the agricultural sciences.

PSO2: Applying concepts/methodologies, theories, tools, techniques, models, and procedures in the packages of practices for sustainable crop cultivation and higher production.

PSO3: Evaluating complex conditions specific to agricultural problems, and conceptualization of agricultural issues.

PSO4 Developing innovative practices, processes, techniques, and technologies to meet the challenges in the

agricultural & farming sectors.

PSO5: Evaluating modern practices and options for agricultural problems solutions.

Career Options:

Government Jobs in the State Department of Agriculture as Agricultural Development Officer, Agriculture Inspector, Horticulture Development Officer, District Horticulture Officer, Soil Conservator, Soil Testing Officer, Plant Protection Inspector, and Plant Protection Officer. Plant Protection Quarantines, National Diary Institutes, and Jobs in the finance sector/institutes like Banks and NABARD as Agriculture Assistant, Agriculture Development Officer, and many more.

Jobs in Corporate sectors such as Food Corporation of India, State warehouses, fertilizer companies like IFFCO, NFL, National and State, Seed Companies like National Seed Corporation, Haryana Seed Development Corporation, Central State Farms, Indo–Israeli, Precision Farming projects. • Private Seed Companies like MAHYCO and Pioneer Seed Company Pesticide Companies like BAYER, HIL, SYNGENTA, DOW, CYNAMID INDIA LTD, LUPIN and Biotech International PVT Ltd, and many more.

Self-entrepreneurships as a business in agriculture inputs like Fertilizers, Seed, Pesticides, Mushroom cultivation, and high-value fruit crops production like Strawberry cultivation, Poultry, Piggery Farms, and Organic Farming etc., Jobs in National and International Universities/Institutions after PG as Scientist or Professor, Can Appear in all National and state competitive examinations, To excel in all above positions, it requires a high-level skill and competence in respective field, high standard personal grooming and presentation.

Programme Duration:

The minimum period required for the B.Sc. (Hons.) Agriculture programme offered by the university shall extend over a period of four Academic Years, i.e., 8 semesters. The Programme will be considered complete when the candidate has earned the minimum courses and credits required by the programme curriculum.

- Students who exit with a UG- Certificate or UG- Diploma are permitted to re-enter within three academic years and complete the degree programme.
- Students may be permitted to take a break from the study during the period of study but the total duration for completing the programme shall not exceed 7 years.

Eligibility Criteria:

Candidate must have passed 10+2 with 50% marks in PCB/PCM/ Agriculture with English as a compulsory

subject from a recognized State/Central Board or Equivalent.

Eligibility Criteria for Award of Degree:

Degree Eligibility: For successful completion of programme, the students should secure a minimum of 168+ 10 (online) credits at the end of the final year of the program.

Internships and Placement (Training, projects)

Undergraduate students at the School of Agricultural Sciences (SOAS) are required to complete one month internship Agricultural Industrial Attachment (AIA) and 14 weeks READY programme and Experiential Learning Modules (ELP) during the final year of their degree programme, each semester carrying a weightage of 20 credits. This mandatory component is designed to provide hands-on experience and practical exposure, which are essential for obtaining their degree. Many students undertake internships at prestigious institutions with which SOAS has signed Memorandums of Understanding (MoUs), ensuring access to quality learning environments. Additionally, with the guidance and support of faculty members, students secure internships at renowned research institutes and industries, further enriching their academic and professional experiences. These internships enable students to bridge the gap between theoretical knowledge and real-world applications, preparing them for future challenges in academia and the workplace.

Student Name	**Batch**	**Designation**	**Organization**
Suvisha Dhar	2019-23	HR Exucutive	Peko Payment Pvt. Ltd.
Mohd. Tufail	2019-23	Project Assistant	DST, Project, KRMU
Saqlain ahmed	2019-23	Agriculture Exucutive	Sir Syed Trust, New Delhi
Aamir Khan	2020-24	Farm Supervisor	KRMU, Gurugram
Poonam	2020-24	Assistant Manager, HR	Dehat, Gurugram
Pinki Kumari	2020-24	Senior Re-payment executive	Samavesh Marketing India Pvt. Ltd
Pranay surha	2020-24	Designer	Hexaagramm infra. Pvt. Ltd.
Ashish Saini	2020-24	Farm Manager	ACSEN, Gurugram

Experiential Learning Calander

S.NO	School Name	Name of the event	Nature of events (reference-NAAC requirement)	SDG Goals	SDG Outcomes
1	SOAS	Activity 1:- Efficient Management of livestock farm in collaboration With New MoU partner 1 (Amritphal Gaushala)	3.7.1	SDG4	SDG 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.
2	SOAS	Activity 2:- Advanced Vermicomposting Techniques with New MoU partner 1 (Amritphal Gaushala)	3.7.1	SDG1	SDG 1: Enhanced agricultural productivity through soil health management contributes to overall rural development.

3	SOAS	KEIC Activity: Workshop on "Agritech Innovation: Transforming Ideas into Impactful Start-ups"	3.3.1	SDG 4, 9	SDG 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. SDG9: Promote inclusive and sustainable industrialization and foster innovation
4	SOAS	To study adoption of soil health cards and its impact on crop production - A case study of village Dauhla (Sohna)	3.6.1	SDG 2	1. Promotion of Sustainable Practices: Encourage adoption of sustainable farming techniques guided by soil health card recommendations, such as integrated nutrient management, organic farming, and conservation tillage. 2. Knowledge Sharing and Capacity Building: Facilitate knowledge sharing and capacity building among farmers on sustainable agriculture practices through training programs and peer-to-peer learning.
5	SOAS	Alumini engagement for the empowerment: Gather & Grow.	5.4.2	SDG 3,8	SDG 3: Promote well-being for all ages, focusing on mental health and work-life balance as essential components. SDG 5: Empower all women and girls, balancing professional and personal responsibilities. SDG 8: Promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all, by addressing work-life balance issues.

6	SOAS	Industrial Visit - Knowledge and marketing of agro-chemicals at IFFCO Counters	2.3.1	SDG 4, 12	SDG 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. SDG 12: Ensure sustainable consumption and production patterns.
7	SOAS	Visit to SAU's/ RRS/ ICAR institutes/KVK / Deptt of Horticuture, Haryana/Agriculture(any one)	2.3.1	SDG 4	**SDG 2: Zero Hunger** - By promoting sustainable agriculture, improved crop cultivation, and organic farming practices, this visit contributes to ensuring food security and improved nutrition. **SDG 4: Quality Education** - The hands-on learning experience enhances educational opportunities and promotes lifelong learning in the field of agriculture. **SDG 12: Responsible Consumption and Production** - By engaging in innovative farming practices and organic farming, students learn about sustainable consumption and production patterns. **SDG 13: Climate Action** - Exposure to modern agricultural technologies and sustainable farming practices helps mitigate the effects of climate change and promotes climate resilience in agriculture. **SDG 15 Life on Land** - Learning about fruit cropping and various fruits grown in the region promotes sustainable use of terrestrial ecosystems and supports biodiversity conservation.

8	SOAS	Scientific Trends and Advancements in Bee Products with CDC	5.1.3	SDG 4	Ensure the development of relevant skills for employability and enterpreneurship
9	SOAS	Program on Soft Skills - "Harnessing the power of writing skills for review articles" with CDC	5.1.3	SDG 4	Ensure the development of relevant skills for employability
10	SOAS	Integrity in Action: Code of Conduct Training for Students	7.1.10	SDG 4,	SDG 4: Promoting ethical behaviour and integrity among students, enhancing the overall quality of education and learning environments.SDG 5: Encouraging respect and equality among all genders, addressing issues of discrimination and harassment, and promoting a safe and inclusive environment.SDG 10: Reducing inequalities by fostering an inclusive culture that respects diversity and promotes equal opportunities for all students.SDG 16: Strengthening institutions by instilling a sense of responsibility, ethical behavior, and respect for rules and regulations among students, contributing to peaceful and just environments.

11	SOAS	Teaching with Integrity: Professional Ethics Training for Educators	7.1.10	SDG 4	SDG 4: Improved educational outcomes through the promotion of professional integrity and ethical behaviour among teachers, leading to enhanced teaching and learning environments. SDG 5: Promotion of gender equality and respect in educational settings, ensuring a safe and inclusive environment for all students and staff.SDG 10: Reduction of inequalities in education by fostering an inclusive culture that values diversity and promotes equal opportunities for all students and teachers.SDG 16: Strengthening of educational institutions by instilling a sense of ethical responsibility and integrity among teachers, contributing to peaceful, just, and effective educational environments
12	SOAS	Professional Ethics Training for Students	7.1.10	SDG 4,	SDG 4: Enhance educational quality by instilling ethical principles and integrity among students, contributing to a positive learning environment. SDG 10: Reduce inequalities by promoting ethical behaviour that respects and values diversity among students. SDG 16: Strengthen institutions and promote justice by cultivating a culture of ethical responsibility and accountability among students.
13	SOAS	Pending activity from even semester 2022-2023 International Conference on Impact of Climate Change on the Biodiversity of Agriculture	3.4.4	13	The students, researchers and faculty members will be updated of latest research/technologies of agriculture bio-diversity
14	SOAS	Pending activity from 23-24 Even Semester- Establishment of functional cultivation unit of mushroom at KRMU	3.3.1	9, 17	The Students of SOAS, KRMU is setting up a start-up in Agriculture

		Campus with KEIC(Onging Startup from Dec 2023			
15	SOAS	Pending activity from 23-24 Even Semester- Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre such as Atal Incubation Centre etc.	3.3.1	9, 17	Students will get exposure to starting new businesses in the field of agriculture and allied sectors

Testimonials (Outstanding students/Alumni)

Ms. Suvisha Dhar (Gold Medalist),
HR Executive at Peko Payment Pvt Ltd.

As an esteemed alumna of the SOAS department at KR Mangalam University, I attest to the unparalleled academic rigor and holistic learning experience offered by the institution. The diverse perspectives, rigorous research opportunities, and expert guidance provided by the faculty have equipped me with invaluable skills and knowledge for navigating the global landscape. I am proud to carry forward the legacy of excellence instilled in me during my time at KR Mangalam University. Now, I have joined as HR Executive at a reputed organization.

Mr. Tufail,

Project Assistant DST, Govt. of India, K. R. Mangalam University

I'm very glad to get an education at K R Manglam University, Sohna, with its friendly staff and eco-friendly surroundings. It all helps to shape an individual into a great personality. Here, we learned to love nature. I developed leadership, time management, and other cultural skills in this college in coordination with faculty. The science exhibition and the cultural programs conducted at this college helped me enrich my skills and knowledge. All around, the four-year B.Sc. (Hons.) Agriculture degree just passes here like the four days that were unforgettable in my entire life with lots of joy, knowledge, and fun. Now, I have joined the DST government project as a project assistant at the university.

Mr. Saqlain,

Agriculture Executive, Sir Syed Trust, Tauru Agriculture

K R Mangalam University is one of the better universities because the environment here, especially the hostel life, is very good. Our campus is a ragging-free campus. I have decided to make my career in the field of natural farming and joined as a farm supervisor at a reputed organization.

Ms. Priyanka

As an alumnus of KR Mangalam University. I bequeath my enduring gratitude for the invaluable education, cherished memories, and lifelong friendships fostered within its halls. May future generations thrive under its guidance, perpetuating the legacy of excellence and service to society. Now, I am preparing for higher studies and competitive exams under the guidance of mentors from K R Mangalam University.

Mr. Junaid

I joined the SOAS when it was established in the year 2019, and the BSc (Hons.) Agriculture course is a 4-year degree program. The college has a strong student society, and it carries a very lively and sporty college life within the campus. The professors have a very cooperative relationship with the students to conduct useful demonstrations on farms and guide their studies. Various cultural functions are held every year to encourage students in a lot of aspects like dancing, drama, singing, sports, athletics, sports, etc. Now, I am planning for an agriculture start-up under the guidance of mentors of K R Mangalam University.

Aayushi (2313820003), Batch: 2023-27

SOAS, the school fosters excellence, as a BSc (H) Agriculture student, I, Aayushi, am inspired daily by the professors to participate in the different activities and competitions. Our agriculture department offers field trips to farms and agricultural facilities, which provides real-world insight.

Sagar (2213820006) Batch: 2022-26

K R Mangalam University provides us with the facilities to build live projects from lab to field and field to lab to increase students' knowledge and skills with the latest technologies and models.

Anushka Rawat (2113820015), Batch: 2021-25

At K R Mangalam University the hands-on training provided in the field along with theoretical knowledge helps us to face real-life problems faced by the farming community.

Contact Details

Dean: Prof. (Dr.) Joginder Singh Yadav

Email Id: dean.soas@krmangalam.edu.in

M.No.: 9416386060

APPENDIX

Appendix-I

Standard Operating Procedure (SOP) for Internship

All undergraduate students at the School of Agricultural Sciences must complete a summer internship as part of their curriculum to earn 2 credits for each internship. The internship should provide students with practical experience and exposure to real-world applications of their academic knowledge. The following guidelines outline the procedure, expectations, and requirements for the internship:

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1. Eligibility

- All undergraduate students enrolled in the School of Agricultural Sciences in 4-year bachelor's degree programme are required to undertake an internship at the end of final year.
- The internship should be related to the student's field of study of core agriculture disciplines.
- **2. Internship Duration**
- The internship should last for a minimum of 4 to 6 weeks (approximately 120 to 150 hours) during the summer break.

- The total time commitment must meet the requirements to qualify for the allocation of 2 credits for each internship.

3. Internship Scope

- Internships can be carried out in various sectors, including:
    - Research institutions and laboratories.
    - Industries related to semiconductors, materials science, environmental science, data analysis, Forensic Sciences, etc.
    - Universities or academic institutions offering summer research/internship programmes.
    - Startups or established companies in relevant fields.
- The chosen internship must offer hands-on experience and align with the student's academic and career goals.

4. Selection Process

- Students may arrange internships through:
    - University-organized programmes or collaborations (MOUs with industries and institutions).
    - Direct applications to organizations.
    - Internship portals or professional networks.
- Before finalizing the internship, students must receive approval from their academic advisor/mentor to ensure the internship meets academic standards and aligns with the student's study area.

5. Learning Outcomes

- Students are expected to achieve the following outcomes:
    - Apply theoretical knowledge to practical scenarios.
    - Develop professional skills, such as communication, teamwork, and time management.
    - Gain an understanding of industry practices, research methodologies, or advanced laboratory techniques.
    - Enhance problem-solving and critical thinking skills in real-world applications.

6. Documentation and Evaluation

- **Internship Proposal**: Before starting the internship, students must submit a proposal including details of the organization, internship objectives, and duration for approval by the academic advisor/mentor.

- **Daily/Weekly Log**: Students must maintain a record of activities carried out during the internship, summarizing tasks and reflecting on learning.
- **Internship Report**: Upon completion, students must submit a detailed internship report that includes:
    - Description of the organization and work environment.
    - Summary of tasks and projects undertaken.
    - Learning experiences and skills acquired.
    - Challenges faced and how they were addressed.
    - Reflections on how the internship relates to their academic programme.
- **Supervisor Evaluation**: The internship supervisor at the host organization must provide a certificate to students on successful completion of the internship programme.

7. Credit Allocation

- Evaluation scheme for internship

Particular	Weightage
Internal Marks: - Internship completion certificate obtained from supervisor from host institute.	30 Marks
External Marks (Practical): - Presentation Report Writing Viva Voce	70 Marks 25 25 20

- Students must pass all evaluation components to receive the 2 credits.

8. Deadlines

- **Internship Proposal Submission**: At least two weeks before the commencement of the internship.
- **Final Report Submission**: Within two weeks after completing the internship.

9. Code of Conduct

- Students must adhere to the professional code of conduct during their internship, maintaining ethical behavior, punctuality, and a commitment to learning.

Any issues or disputes during the internship should be immediately reported to the academic advisor/mentor.

Appendix-II

STANDARD OPERATING PROCEDURE (SOP) FOR ISSUING NOC TO STUDENTS

Objective: The objective of this SOP is to ensure a systematic and transparent process for issuing NOCs to students for job placements or training opportunities, thereby facilitating their professional development while maintaining academic standards and compliance.

1) Request Submission:

The following documents are to be submitted/ uploaded by the student for the requirement of NOC:

1.1) **Cover Letter**: Detailing how the internship/placement aligns with their academic programme and career objectives.

1.2) **Offer Letter:** An official document from the organization outlining the role, duration, and conditions.

1.3) **Internship/Placement Plan:** A document explaining the expected learning outcomes and how the student intends to balance their academic responsibilities.

The above documents are to be addressed to the concerned school dean/head.

2) Approval Process:

Document Verification and review by Dean/Head:

2.1) Dean/ Head verifies the authenticity of the request and the supporting documents provided by the student as per ***point no. 1.***

2.2) Dean is required to approve the request if the following parameters are met:

- **Relevance:** The internship/placement must be relevant to the student's academic requirements.
- **Educational Value:** There must be clear learning outcomes and professional development opportunities stated by the student in the cover letter.
- **Academic Commitment Management:** Student has clearly indicated how they will manage their coursework alongside the internship/placement.

The Dean/Head will approve the request after verifying the documents provided by the student.

Note: In case the Dean/Head rejects the request, he/she needs to give a valid reason, in writing for the same.

3) Issuance of NOC:

Upon approval, the CDC will issue the NOC, stating that the University has no objection to the student pursuing the job placement or training/internship opportunity. (Annexure 1)

4) Student Acknowledgment:

The NOC is handed over to the student, who acknowledges receipt.

5) Record Keeping:

Records of NOC copies issued are to be maintained by the CDC department and respective schools.

6) Follow-Up:

6.1) Throughout the duration of the job placement or training, the University may conduct periodic checks to ensure that the student is fulfilling their academic and other obligations.

6.2) Any issues or concerns that arise during this period are addressed promptly by the CDC/Dean/Head in coordination with the student and the employer or training organization.

7) Appeal in case the request is rejected: Top of Form

7.1) If the decision of the Dean/Head is not acceptable to the student, he/she may request Dean Academics to review all documents and render a decision.

7.2) Students must file their appeal no later than 10 working days after the school's rejection date. If the student does not file a timely appeal, the decision of the Dean/Head will be final.

7.3) A student's appeal must be submitted in writing and include all the relevant documents mentioned in point no.1 along with the Dean/Head's reason for not approving the request.

7.4) Dean Academics will review the request along with all the submitted documents and may seek clarifications from the student and Dean/head to conclude the final decision.

7.5) The decision of the Academic Dean will be final and binding; there is no further appeal.

Appendix- III

NO-OBJECTION CERTIFICATE

This is to certify that _____, Roll. No. _____ is a Bonafide student of _____ at School of Agricultural Sciences, K.R. Mangalam University during the academic year _____. This certificate states that the University has no objections to the consideration of the application for Summer Internship (year)_____ at _____ during the summer vacation i.e. the period from _____. However, he/she will appear for the End Term Examination held at university campus.

Prof. (Dr.) Joginder Singh Yadav
Dean
School Agricultural Sciences
K.R. Mangalam University

CC:
Dean Academics
Career Development Cell
Programme Coordinator
Mentor

APPENDIX-II

Standard Operating Procedure (SOP) for Research Project / Dissertation

All undergraduate students at the School of Agricultural Sciences are required to complete a research project under the supervision of a faculty member in their final year. The project is a crucial component of the curriculum and provides students with the opportunity to apply their academic knowledge to real-world research problems. Successful completion of the research project will lead to the awarding of the required credits as per the course structure.

---

1. Eligibility

- All final-year undergraduate students are required to complete a research project in their chosen field of study.
- The project must be undertaken under the supervision of a faculty member from the School of Agricultural Sciences.

2. Project Duration

- The project is generally conducted over one semester of the final year, based on the course structure.
- Students are expected to dedicate a significant amount of time to the project to meet the required credits.

3. Project Scope

- The research project must be directly related to the student's field of study, which may include topics from core disciplines of agriculture including allied sciences.
- Students are encouraged to work on current and relevant topics, including experimental, theoretical, computational, or applied research.
- Projects can involve individual or group work, as defined by the supervisor.

3. Project Selection

- **Supervisor Assignment**: Each student will be assigned or can select a faculty supervisor based on their area of interest and available projects.
- **Topic Approval**: Students must submit a research proposal outlining their project objectives, methodology, and timeline. The proposal must be approved by the faculty supervisor.

- The research project topic should align with the academic interests of both the student and the faculty supervisor and should be feasible within the given time frame and resources.

5. Learning Objectives

- The research project aims to achieve the following:
- Develop research skills, including data collection, analysis, and interpretation.
- Enhance problem-solving and critical thinking abilities.
- Improve technical writing and presentation skills.
- Foster innovation and creativity in scientific inquiry.
- Promote collaboration and teamwork, where applicable.

6. Project Phases

- **Initial Proposal**: Students must develop a research proposal that defines the project's objectives, scope, and expected outcomes. This should be approved by the faculty supervisor.
- **Literature Review**: Students must conduct a comprehensive review of existing research related to their project topic and present the findings as part of their progress.
- **Data Collection and Analysis**: Depending on the nature of the project, students will gather data through experiments, simulations, or theoretical work and analyze the findings.
- **Drafting the Final Report**: The final report will include a detailed description of the research, methodology, results, and conclusions.

7. Documentation and Submission

- **Research Proposal**: Students are required to submit a research proposal that clearly defines the problem statement, research methodology, and expected outcomes. The proposal must be approved by the supervisor.
- **Progress Reports**: Students must submit periodic progress reports to their supervisor, summarizing the research activities, challenges encountered, and the next steps.
- **Final Project Report**: Upon completion of the project, students must submit a final report that includes:
    - Introduction and background of research.
    - Detailed methodology.
    - Data analysis, results, and discussion.
    - Conclusion and future scope of research.

- References and bibliography.

- **Project Presentation**: Students will be required to present their research findings through a presentation to a panel of faculty members.

8. Evaluation Criteria

- The evaluation of the research project will be based on the following:

Particular	Weightage
Internal Marks (to be provided by supervisor): - (Punctuality, Performance, Work Ethics, Efforts and Research Output)	50 Marks
External Marks: - Presentation Report Writing Viva Voce	50 Marks 20 10 20

- Students must meet all evaluation criteria to successfully earn the credits assigned to the research project in their course structure.

9. Code of Conduct

- Students must adhere to the highest standards of academic integrity and ethics while conducting research.
- Any form of plagiarism, data manipulation, or misconduct will lead to disqualification from the project and disciplinary action.
- Regular communication with the supervisor is mandatory to ensure timely completion of the project.
- Students must respect deadlines and follow the guidelines provided by the school and supervisor.

10. Deadlines

- **Research Proposal Submission**: Within the first month of the final year or as directed by the department.
- **Progress Reports**: As specified by the supervisor, typically at key milestones of the project.
- **Final Report Submission**: At the end of the final semester or by the deadline set by the supervisor.
- **Presentation**: At the end of the semester, after the end term examination.

APPENDIX-III

General Standard Operating Procedure (SOP) for All Labs

These Standard Operating Procedures (SOPs) provide guidelines for safe and efficient conduct in the

Agricultural Science laboratories. All university students must adhere to these protocols to ensure safety, accuracy in experiments, and the responsible use of lab resources.

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1. **Lab Attendance and Conduct**
   - Students must arrive on time and sign the attendance register before entering the lab.
   - Follow the instructions of the lab supervisor and respect the lab environment.
   - Avoid unnecessary movements or distractions; focus on your assigned tasks.
2. **Personal Protective Equipment (PPE)**
   - Lab coats, safety goggles, and gloves must be always worn, depending on the nature of the experiments.
   - Long hair should be tied back, and loose clothing or accessories should be secured.
   - Closed-toe shoes are mandatory in all lab environments.
3. **Preparation for Lab Sessions**
   - Read and understand the lab manual or experimental procedure prior to entering the lab.
   - Be aware of the potential hazards to materials and equipment you will use.
   - Students are required to maintain a lab notebook to record their procedures, observations, and results.
4. **Handling Equipment and Materials**
   - All equipment and materials should be handled with care, as instructed by the lab supervisor.
   - Do not use equipment without prior authorization from the instructor.
   - Report any malfunctioning equipment or hazards immediately.
5. **Chemical and Sample Handling**
   - All chemicals and samples must be properly labelled before use.
   - Never taste or directly smell chemicals; use wafting techniques when necessary.
   - Dispose of chemicals and samples according to the designated waste disposal procedures for each lab.
6. **Emergency Procedures**
   - In case of an accident, fire, or chemical spill, immediately notify the lab supervisor.
   - Know the locations of safety equipment, such as fire extinguishers, safety showers, and first-aid kits.
   - Emergency exits should be always kept clear.

7. **Cleaning and Storage**

- All workstations should be cleaned after experiments, and all materials and equipment should be returned to their designated storage places.
- Wash hands thoroughly after completing the lab work, even if gloves were worn.
- Ensure proper disposal of waste and return all equipment to its original state.

Programme Structure

Type of courses	**Credits**
Core courses (Major & Minor/s)	112
Common courses (MDC+VAC+AEC)	24
Skill Enhancement Courses (SEC)	12
Internship/ Student READY	20
**MOOCS/SWAYAM	10 (Online Courses)
Total	**168+10**

ACADEMIC PROGRAMME
Semester wise course and credits Allocation

S. No	**Course Title**	**Credit Hours**	**Total credit hours**
First year			
I Semester			
1	Deeksharambh (Induction cum Foundation course)	1 week (NG)	21(11+10)
2	Skill Enhancement course-I*	2(0+2)	
3	Skill Enhancement course-II*	2(0+2)	
4	Communication Skills	2(1+1)	
5	Farming based livelihood systems	3(2+1)	
6	Rural Sociology and Educational Psychology	2 (2+0)	
7	Fundamentals of Agronomy	3(2+1)	
8	Fundamentals of Soil Science	3(2+1)	
9	Fundamentals of Horticulture	3(2+1)	
10	National Service Scheme (NSS-I)/ National Cadet Corps (NCC-I)	1(0+1)	
11	Introductory mathematics (need based)	1(1+0) (NG)	
II Semester			
1	Skill Enhancement course-III*	2(0+2)	
2	Skill Enhancement course-IV*	2(0+2)	

3	Personality Development	2(1+1)	21(10+11)
4	Environmental Studies and Disaster Management	3(2+1)	
5	Soil Fertility Management	3(2+1)	
6	Fundamentals of Entomology	3(2+1)	
7	Livestock and Poultry Management	2(1+1)	
8	Fundamentals of Plant Pathology	3(2+1)	
9	NCC-II/NSS-II	1(0+1)	
Second Year			
III Semester			
1	Skill Enhancement course-V*	2(0+2)	21(9+12)
2	Entrepreneurship Development and Business Communication	3 (2+1)	
3	Physical Education, First Aid, Yoga Practices and Meditation	2(0+2)	
4	Principles of Genetics	3(2+1)	
5	Crop Production Technology-I (Kharif crops)	3(1+2)	
6	Production Technology of Fruit and Plantation Crops	2 (1+1)	
7	Fundamentals of Extension Education	2(1+1)	
8	Fundamentals of Nematology	2(1+1)	
9	Principles and Practices of Natural Farming	2(1+1)	
IV Semester			
1	Skill Enhancement course-VI*	2(0+2)	21(11+10)
2	Agricultural Informatics and Artificial Intelligence	3(2+1)	
3	Production Technology of Vegetables and Spices	2(1+1)	
4	Principles of Agricultural Economics and Farm Management	2(2+0)	
5	Crop Production Technology-II (Rabi Crops)	3(1+2)	
6	Farm Machinery and Power	2 (1+1)	
7	Water Management	2 (1+1)	
8	Problematic Soils and their management	2(1+1)	
9	Basics of Plant Breeding	3(2+1)	
Third year			
V Semester			
1	Agricultural Marketing and Trade	3 (2+1)	22(13+9)
2	Introduction to Agro-meteorology	2(1+1)	
3	Fundamentals of Crop Physiology	3(2+1)	
4	Pest management in Crops and Stored Grains	3 (2+1)	
5	Diseases of Field & Horticultural Crops & their Management	3(2+1)	
6	Crop Improvement (kharif crops) - I	2 (1+1)	
7	Weed Management	2(1+1)	
8	Ornamental Crops, MAPs and Landscaping	2 (1+1)	
9	Introductory Agro forestry	2 (1+1)	
VI Semester			
1	Fundamentals of Agri Biotechnology	3(2+1)	21(12+9)
2	Basic and Applied Agril Statistics	3(2+1)	
3	Crop Improvement (Rabi crops) - II	2(1+1)	
4	Renewable energy in Agriculture and Allied Sector	2(1+1)	
5	Dryland agriculture/ Rainfed agriculture and watershed management	2(1+1)	

6	Agricultural Microbiology and Phyto -remediation	2(1+1)	
7	Agricultural Finance & Cooperation	2(1+1)	
8	Essentials of Plant Biochemistry	3 (2+1)	
9	Fundamentals of Seed Science & Technology	2(1+1)	
Fourth Year			
VII Semester			
1	5 Elective Courses out of 20 EC (major or minor) each of 4 (3+1) credits for B.Sc. (Hons) Agriculture degree		**20(15+5)**
VIII Semester			
1	For B.Sc. (Hons)Agriculture Degree Student READY :RAWE/ Industrial Attachment /Experiential Learning / Hands-on Training/ Project Work / Internship		**20 Credits**
		Total	**168**
	*Online courses	**10**	**10**
		Grand Total	**168+10***

*** From the bouquet of Skill Enhancement Course (SEC) modules.**

Table: Credits Allocation Scheme of B.Sc. (Hons.) Agriculture Proghram (Credit hours)

Semester	Core Courses (Major + Minor)	Multi-Disciplinary Course (MDC)	Value Added Course (VAC)	Ability Enhancement Course (AEC)	Skill Enhancement Course (SEC)	Internship/ Project/ Student READY	Total Credits	Non-Gradial	Online Courses/ MOOC
I	**11**	Farming based Livelihood systems **3(2+1)**		NCC/NSS **1(0+1),** Communication Skills **2(1+1)**	**SEC-I 2(0+2) & II 2(0+2)**	**-**	**21**	Deeksharambh 1 Week, Introdu	

								ctory Mathematics **1(1+0),**	**10**
II	**11**		Environmental Studies and Disaster management **3(2+1)**	NCC/NSS **1(0+1),** Personality Development **2(1+1)**	**SEC-III 2(0+2), & IV 2(0+2)**	**-**	**21**		
Post-II Sem.						**Exit Certificate 10 (0+10)**			
III	**14**	ntrepreneurship Development and Business Management **3(2+1)**		Physical Education, First Aid and Yoga Practices **2(0+2)**	**SEC-V 2(0+2)**		**21**		
IV	**16**		Agricultural Informatics and Artificial Intelligence **3(2+1)**	**--**	**SEC-VI 2(0+2)**		**21**		
Post-IV Sem						**Exit Diploma 10 (0+10)**			
V	**19**	Agricultural Marketing and Trade **3(2+1)**	**-**	**-**	**-**	**-**	**22**	Study tour **2(0+2)**	
VI	**21**	**-**	**-**	**-**	**-**	**-**	**21**		
VII	**20**	**-**	**-**	**-**	**-**	**-**	**20 (EC)**		
VIII	**-**					READY/ RAWE & AIA **20(0+20)**	**20**		
Total	**112**	**9**	**6**	**8**	**12**	**20**	**168**	**4**	**10**

Department/section wise course breakup

S. No	Course Title	Credit Hours	Total
Agronomy			
1	Fundamentals of Agronomy	3(2+1)	
2	Farming based livelihood systems	3(2+1)	
3	Crop Production Technology-I (Kharif crops)	3(1+2)	
4	Crop Production Technology-II (Rabi crops)	3(1+2)	
5	Water Management	2 (1+1)	

6	Weed Management	2 (1+1)	22(11+11)
7	Introduction to Agro forestry	2(1+1)	
8	Dryland agriculture/ Rainfed agriculture and watershed management	2(1+1)	
9	Principles and Practices of Natural Farming	2(1+1)	
Soil Science			
1	Fundamentals of Soil Science	3(2+1)	8(5+3)
2	Soil Fertility Management	3(2+1)	
3	Problematic Soils and their management	2(1+1)	
Horticulture			
1	Fundamentals of Horticulture	3 (2+1)	9(5+4)
2	Production Technology of Fruit and Plantation Crops	2 (1+1)	
3	Production Technology of Vegetables and Spices	2 (1+1)	
4	Ornamental Crops, MAPs and Landscaping	2 (1+1)	
Genetics and Plant Breeding			
1	Principles of Genetics	3(2+1)	12(7+5)
2	Basics of Plant Breeding	3(2+1)	
3	Crop Improvement (kharif crops) - I	2 (1+1)	
4	Crop Improvement (kharif crops) - I	2 (1+1)	
5	Fundamentals of Seed Science & Technology	2(1+1)	
Entomology			
1	Fundamentals of Entomology	3 (2+1)	6(4+2)
2	Pest management in Crops and Stored Grains	3 (2+1	
Plant Pathology			
1	Fundamentals of Plant Pathology	3(2+1)	8(5+3)
2	Diseases of Field & Horticultural Crops & their Management	3(2+1)	
3	Agricultural Microbiology and Phyto -remediation	2(1+1)	
Extension Education			
1	Rural Sociology and Educational Psychology	2(2+0)	8(5+3)
2	Fundamentals of Extension Education	2(1+1)	
3	Communication Skills	2(1+1)	
4	Personality Development	2(1+1)	
Agricultural Meteorology			
1	Environmental Studies and Disaster Management	3(2+1)	5(3+2)
2	Introduction to Agro-meteorology	2(1+1)	
Agricultural Economics			
1	Principles of Agricultural Economics and Farm Management	2(2+0)	9(6+3)
2	Entrepreneurship Development and Business Communication	3(2+1)	
3	Agricultural Marketing and Trade	2(1+1)	
4	Agricultural Finance & Cooperation	2(1+1)	
Agricultural Statistics			
1	Agricultural Informatics and Artificial Intelligence	3(2+1)	6(4+2)
2	Basic and Applied Agril Statistics	3(2+1)	
3	Introductory Mathematics	1(1+0)	
Agricultural Engineering			
1	Farm Machinery and Power	2(1+1)	4(2+2)

2	Renewable energy in Agriculture and Allied Sectors	2(1+1)	
Nematology			
1.	Fundamentals of Nematology	2(1+1)	2(1+1)
Biochemistry			
1	Essential of Plant Biochemistry	3(2+1)	3(2+1)
Crop Physiology			
1	Fundamentals of Crop Physiology	3(2+1)	3(2+1)
Animal Husbandry			
1	Livestock and Poultry Management	2(1+1)	2(1+1)
Agricultural Biotechnology			
1	Fundamentals of Agri Biotechnology	3(2+1)	3(2+1)
Students' Welfare			
1	NCC/NSS	1(0+1)	1(0+1)
2	NCC/NSS	1(0+1)	1(0+1)
3	Physical Education, First Aid and Yoga Practices	2(0+2)	2(0+2)
4	Study Tour	2(0+2)	2(0+2), NG
***Elective Courses (Indicative)**			
1	Agri-Business Management	4 (3+1)	20*(15+5) 5* Elective Courses
2	Management of natural resources	4 (3+1)	
3	Agrochemicals	4 (3+1)	
4	Agricultural Journalism	4 (3+1)	
5	Landscaping	4 (3+1)	
6	Commercial Plant breeding	4 (3+1)	
7	Food safety and standards	4 (3+1)	
8	Bioformulation and Nano formulation	4 (3+1)	
9	Biopesticides and Biofertilizers	4 (3+1)	
10	System Simulation and Agro advisory	4 (3+1)	
11	Hi-tech Horticulture	4 (3+1)	
12	Protected cultivation	4 (3+1)	
13	Climate Resilient Agriculture	4 (3+1)	
14	Biotechnology of Crop Improvement	4 (3+1)	
15	Geoinformatics and Remote Sensing, precision farming	4 (3+1)	
16	Micro-propagation Technologies	4 (3+1)	
17	Commercial Seed Production	4 (3+1)	
18	Principles and Practices of Organic Farming/ Conservation Agriculture	4 (3+1)	
19	Food Science and Nutrition	4 (3+1)	
20	Post-Harvest Technology and Value Addition	4 (3+1)	
****Skill Enhancement Courses (SECs)**			
1	Biofertilizer and biopesticide production	2 (0+2)	12(0+12)
2	Production Technology of Bioagents	2 (0+2)	
3	Seed Production and Testing Technology	2 (0+2)	
4	Mushroom Production Technology	2 (0+2)	
5	Soil, Plant and Water Testing	2 (0+2)	
6	Post-harvest Processing Technology	2 (0+2)	
7	Beneficial Insect Farming	2 (0+2)	
8	Plantation Crop Production and Processing	2 (0+2)	

9	Poultry Production Technology	2 (0+2)	
10	Piggery Production Technology	2 (0+2)	
11	Commercial Horticulture	2 (0+2)	
12	Floriculture and Landscaping	2 (0+2)	
13	Food Processing	2 (0+2)	
14	Agriculture Waste Management	2 (0+2)	
15	Organic Production Technology	2 (0+2)	
16	Commercial Sericulture	2 (0+2)	
17	Video Production	2 (0+2)	
****SEC decided by the host institution depending on the strength and may add more courses**			
		Total	**168**
1	*Online courses	**10**	**10**
		Grand Total	**168+10***

Course Structure 2025-29

SOAS	**B.Sc. (Hons.) Agriculture, Course Structure, 2025-29**															
	SEMESTER-I									**SEMESTER-II**						
	S No	**TYPE OF COURSE**	**COURSE CODE**	**COURSE TITLE**	**L**	**T**	**P**	**C**		**TYPE OF COURSE**	**COURSE CODE**	**COURSE TITLE**	**L**	**T**	**P**	**C**
	1	NG		Deeksharambh	1 week					SEC-III	As per Table 1 As per Table 1	Skill Enhancement course-III*	0	0	4	2
	2	SEC-I	As per Table 1	Skill Enhancement course-I*	0	0	4	2		SEC-IV		Skill Enhancement course-IV*	0	0	4	2
	3	SEC-II	As per Table 1	Skill Enhancement course-II*	0	0	4	2		AEC-III	**ACAD Office**	Personality Development	1	0	2	2
	4	AEC-I	**ACAD Office**	Communication Skills	1	0	2	2		VAC-I	ASVAES201	Environmental Studies and Disaster Management	2	0	2	3
	5	MDC-I	ASAGFB101	Farming based livelihood systems	2	0	2	3		Core	ASAGSS201	Soil Fertility Management	2	0	2	3

	6	Core	ASAG RS102	Rural Sociology and Educational Psychology	2	0	0	2		Core	ASAGE T202	Fundamentals of Entomology	2	0	2	3
	7	Core	ASAG AG103	Fundamentals of Agronomy	2	0	2	3		Core	ASAGL P203	Livestock and Poultry Management	1	0	2	2
	8	Core	ASAG SS104	Fundamentals of Soil Science	2	0	2	3		Core	ASAGPP 204	Fundamentals of Plant Pathology	2	0	2	3
	9	Core	ASAG HR105	Fundamentals of Horticulture	2	0	2	3		AEC-IV/ COMMUNITY SERVICES	**ACAD Office**	National Service Scheme (NSS-I)/ National Cadet Corps (NCC-I)	0	0	1	1
	10	AEC-II/ COMMUNITY SERVICES	**ACAD Office**	National Service Scheme (NSS-I)/ National Cadet Corps (NCC-I)	0	0	2	1		CS001	CS001	Club and Societies	0	0	1	1
	11	NG	AGAG MA106 /AGAG BI107	Introductory mathematics / Basic Biology	1	0	0	1								
	TOTAL				**11**	**0**	**20**	**21**					**10**		**22**	**22**
											ASAGIN 205	Internship	**0**	**0**	**20**	**10**
											(43+10) Exit Certificate					
	Entry															
	SEMESTER-III										**SEMESTER-IV**					
	1	SEC-V	As per Table 1	Skill Enhancement course-V*	0	0	4	2		SEC-VI	As per Table 1	Skill Enhancement course-VI*	0	0	4	2
	2	MDC-II	ASAG ED301	Entrepreneurship Development and Business Communication	2	0	2	3		VAC-II(Workshop Model)	AGVAA I401	Agricultural Informatics and Artificial Intelligence	2	0	2	3
	3	AEC-V	**ACAD Office**	Physical Education, First Aid, Yoga Practices	0	0	4	2		Core	ASAGP T402	Production Technology of Vegetables and Spices	1	0	2	2

				and Meditation												
	4	Core	ASAGGE302	Principles of Genetics	2	0	2	3		Core	ASAGAE402	Principles of Agricultural Economics and Farm Management	2	0	0	2
	5	Core	ASAGCP303	Crop Production Technology-I (Kharif crops)	1	0	4	3		Core	ASAGCP403	Crop Production Technology-II (Rabi Crops)	1	0	4	3
	6	Core	ASAGPT304	Production Technology of Fruit and Plantation Crops	1	0	2	2		Core	ASAGFM405	Farm Machinery and Power	1	0	2	2
	7	Core	ASAGEE305	Fundamentals of Extension Education	1	0	2	2		Core	ASAGWM406	Water Management	1	0	2	2
	8	Core	ASAGNE306	Fundamentals of Nematology	1	0	2	2		Core	ASAGPS407	Problematic Soils and their management	1	0	2	2
	9	Core	ASAGNF307	Principles and Practices of Natural Farming	1	0	2	2		Core	ASAGPB408	Basics of Plant Breeding	2	0	2	3
			TOTAL		**9**	**0**	**24**	**21**					**11**	**0**	**20**	**21**
											ASAGIN409	Internship	**0**	**0**	**20**	**10**
													(85+10) Exit Diploma			
	Entry															
	SEMESTER-V										**SEMESTER-VI**					
	1	MDC-III	ASAGAM501	Agricultural Marketing and Trade	2	0	2	3			ASAGAB601	Fundamentals of Agri Biotechnology	2	0	2	3
	2	Core	ASAGAM502	Introduction to Agro-meteorology	1	0	2	2			ASAGAS602	Basic and Applied Agril Statistics	2	0	2	3
	3	Core	ASAGCP503	Fundamentals of Crop Physiology	2	0	2	3		Core	ASAGCI603	Crop Improvement (Rabi crops) - II	1	0	2	2
	4	Core	ASAGPM504	Pest management in Crops and Stored Grains	2	0	2	3		Core	ASAGRE604	Renewable energy in Agriculture and Allied Sector	1	0	2	2

	5	Core	ASAG DF505	Diseases of Field & Horticultural Crops & their Management	2	0	2	3		Core	ASAGD A605	Dryland agriculture/ Rainfed agriculture and watershed management	1	0	2	2
	6	Core	ASAG CI506	Crop Improvemen t (kharif crops) - I	1	0	2	2		Core	ASAGA M606	Agricultural Microbiology and Phyto - remediation	1	0	2	2
	7	Core	ASAG WM50 7	Weed Management	1	0	2	2		Core	ASAGA F607	Agricultural Finance & Cooperation	1	0	2	2
	8	Core	ASAG OC508	Ornamental Crops, MAPs and Landscaping	1	0	2	2		Core	ASAGP B608	Essentials of Plant Biochemistry	2	0	2	3
	9	Core	ASAG AF509	Introductory Agro Forestry	1	0	2	2		Core	ASAGSS 609	Fundamentals of Seed Science & Technology	1	0	2	2
	10	NG		Education Tour	2 Weeks											
	TOTAL				**13**	**0**	**18**	**22**					**12**	**0**	**18**	**21**
	SEMESTER-VII										**SEMESTER-VIII**					
	1	Core (DSEs)	ASAG AB701 to ASAG PH720 (As Per Table-2)	5 Elective Courses out of 20, Each of 4 (3+1) credits	15	0	10	20		Stude nt Rural Entre prene urshi p Awar eness Devel opme nt Yojan a/Rur al Agric ultura l Work Exper ience	ASAGR E801	Student READY/RA WE- General Orientation and training by different faculties/Villa ge attachment/Un it attachment in Univ. / College. KVK/ Research Station attachment, Component-I	0	0	40	20
	2									Intern ship	ASAGAI 802	Agro-Industrial attachment/Pla nt clinic /Project report preparation, presentation and evaluation,				

												Component-II				
				TOTAL			**0**	**20**					**0**	**0**	**0**	**20**
	Online Courses (MOOCS/SWAYAM, etc.)															**10**
	G. Total															**168 + 10**