

DEPARTMENT OF AGRICULTURAL AND HORTICULTURAL SCIENCES

CIRCULAR

Date: 31.01.2025

Department of Agricultural and Horticultural Sciences is going to conduct 7th Board of Studies (BoS) meeting for the B. Sc. (Hons.) Agriculture Programme on 15.02.2025 from 09.30 a.m to 05:30 p.m. The meeting will be held physically at the Board Room, Fifth Floor, A Block, VFSTR. All the members are requested to make it convenient to attend the meeting.

The members are

Sl. No.	Name	Designation of the Member	Position
1	Dr. T. Ramesh Babu	Director, AHS and Dean, SAFT	Chairman
2	Dr. K.P.C. Rao	Honorary Fellow (Retd.), ICRISAT, Hyderabad	External member (Research)
3	Dr. T. V. Satyanarayana	Registrar, MNR University, Hyderabad	External member (Academia)
4	Dr. Arvind Kumar	Former DDG-R, ICRISAT Vice President Prasad Seeds, Hyderabad	External member (Industry)
5	Dr. S. V. Phanikumar	HoD, Department of Computer Sciences	Internal member
6	Dr. Namana Seshagiri Rao	HoD, Department of Mathematics and Statistics	Internal member
7	Dr. Rajanand Hiremath	Assistant Professor, BoA, Department of AHS	Internal member
8	Dr. M. L. N. Nandini	Assistant Professor, BoE, Department of AHS	Internal member
9	Dr. U. Pandu	Assistant Professor, BoR, Department of AHS	Internal member
10	Dr. Mahesh Hadole (In place of Dr. T. Prabhakara Rao)	Assistant Professor, Coordinator, Department of AE	Internal member
11	Dr. Y. Vara Prasad	Assistant Director, Department of AHS	Internal member
12	Dr. M. Chandra Surya Rao	Assistant Professor, Farm	Internal member

13 Dr. T. Naresh

Superintendent, Department of
AHS
Assistant Professor, Coordinator,
Department of
AHS

Member
Secretary

Agenda of the BoS Meeting:

1. Implementation of B.Sc. (Hons.) Agriculture programme syllabus as per ICAR 6th Deans' committee report in tune with NEP2020 for second, third and final year.
2. Implementation of R-25 Regulations of VFSTR: Assessment.
3. Commencement of M.Sc. (Ag.) Programme in proposed disciplines from the Academic Year 2025-26.



Member Secretary

Dr. T. Naresh
Coordinator
Agricultural & Horticultural Sciences
VFSTR (Deemed to be University)
Vadlamudi - 522 213.



Chairperson

Dr. T. RAMESH BABU
DIRECTOR
Department of Agricultural and
Horticultural Sciences
VFSTR (Deemed to be University)
Vadlamudi, Guntur, A.P-522 213.

DEPARTMENT OF AGRICULTURAL AND HORTICULTURAL SCIENCES

Date: 15.02.2025





Minutes of Board of Studies Meeting






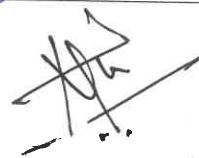
The Seventh Board of Studies (BoS) meeting for the B.Sc. (Hons.) Agriculture Program was held on February 15, 2025, from 09:30 am to 05:30 pm. The meeting was conducted in physical mode, all the participants attended in person at the Board Room, fifth floor of A Block, VFSTR. The event was presided over by Prof. T. Ramesh Babu, Chairperson of the Board of Studies, Department of Agricultural and Horticultural Sciences (AHS), School of Agriculture and Food Technology, VFSTR. ICAR has communicated the reconstruction of 6th Deans' committee report with the revised curriculum of B.Sc. (Hons.) Agriculture in tune with NEP 2020 and directed all SAUs, CAUs, DUs and Agricultural Colleges to adopt from the academic year 2024-25. Hence, the following agenda were discussed in the 7th BoS meeting of AHS department.

Agenda of the BoS Meeting:

1. Implementation of B.Sc. (Hons.) Agriculture programme syllabus as per ICAR 6th Deans' committee report in tune with NEP2020 for second, third and final year.
2. Implementation of R-25 Regulations of VFSTR: Assessment.
3. Commencement of M.Sc. (Ag.) Programme in proposed disciplines from the Academic Year 2025-26.

The following members were present either thorough offline or online.

Sl. No.	Name	Designation of the Member	Position	Signature
1	Dr. T. Ramesh Babu	Director, AHS and Dean, SAFT	Chairman	
2	Dr. K.P.C. Rao	Honorary Fellow (Retd.), ICRISAT, Hyderabad	External member (Research)	
3	Dr. T. V. Satyanarayana	Registrar, MNR University, Hyderabad	External member (Academia)	
4	Dr. Arvind Kumar	Former DDG-R, ICRISAT Vice President Prasad Seeds,	External member (Industry)	

		Hyderabad		
5	Dr. S. V. Phanikumar	HoD, Department of Computer Sciences	Internal member	—
6	Dr. Namana Seshagiri Rao	HoD, Department of Mathematics and Statistics	Internal member	—
7	Dr. Rajanand Hiremath	Assistant Professor, BoA, Department of AHS	Internal member	
8	Dr. M. L. N. Nandini	Assistant Professor, BoE, Department of AHS	Internal member	
9	Dr. B. Srinivasulu (In place of Dr. U. Pandu)	Assistant Professor, I/C BoR, Department of AHS	Internal member	
10	Dr. Mahesh Hadole (In place of Dr. T. Prabhakara Rao)	Assistant Professor, Coordinator, Department of AE	Internal member	
11	Dr. Y. Vara Prasad	Assistant Director, Department of AHS	Internal member	
12	Dr. M. Chandra Surya Rao (In place of Dr. T. Naresh)	Assistant Professor, Farm Superintendent, Department of AHS	Internal member and I/C Member Secretary	

The following members have taken leave of absence:

1. Dr. U. Pandu
2. Dr. T. Naresh

Dr. Rajanand Hiremath, Member, Board of Academics (BoA), Department of Agricultural and Horticultural Sciences welcomed the external and internal members of Board of Studies (BoS) who were experts from the research, industry and academia. As Chairperson, Dr. T. Ramesh Babu extended a warm welcome to all members of BoS. He expressed his sincere congratulations to all the participants for their commendable efforts in ensuring a robust turnout and recognized the significant value of their collective presence.

The following points were discussed in the BoS meeting:

Prof. T. Ramesh Babu delivered a brief presentation detailing the teaching, research and extension activities undertaken by the Department of Agricultural and Horticultural Sciences. He

also discussed the actions initiated based on the outcomes of the 6th Board of Studies meeting. He also underscored the significance of the occasion and delivered a detailed presentation outlining the following:

The existing programme structures, course syllabi, teaching, evaluation and methodology were highlighted. Furthermore, the key points of ICAR 6th Deans' Committee report including the guidelines developed as per NEP-2020 on Implementation Strategy for National Education Policy-2020 in Agricultural Education system, the eligibility and mode of admission criteria, institutional flexibility, lateral entry requirements, migration policy, maximum residential period for B.Sc. (Hons.) Agriculture programme were discussed.

In response to the NEP-2020's call to increase the Gross Enrolment Ratio (GER) in agriculture, provisions for launching stand-alone UG-Certificate and UG-Diploma courses in specific subjects or disciplines are recommended. The importance of maintaining each student's Academic Bank of Credits (ABC) is emphasized, in accordance with Higher Agricultural Education Institutions (HAEIs) and NEP-2020 guidelines. The significance of four key paths of knowledge; learning, skills, values and ethics are highlighted in the 6th Deans' Committee report according to which, it is proposed that the B.Sc. (Hons.) Agriculture program consists of 177 credits of which 167 are provided by the parent university and 10 are earned through online courses selected by the student in consultation with the university or HAEIs. In addition to this, new courses like Natural Farming and Agribusiness Management are introduced in B.Sc. (Hons.) Agriculture programme.

The Dean (SAFT) also addressed the salient features and the entry and exit options in B.Sc. (Hons.) Agriculture programme as per ICAR 6th Deans' Committee report, with emphasize on credit distribution. Key components include the Deeksharambh Foundation Course (2 weeks, non-gradual), core courses (major, minor, and 20 elective credits), Multi-Disciplinary Courses (9 credits), Value Added Courses (6 credits), Ability Enhancement Courses (8 credits), Skill Enhancement Courses (12 credits), the Students READY program (20 credits), Remedial Courses in Mathematics (1 credit) which is approved as gradual during 6th BoS meeting, non-gradual a 2-week study tour (2 credits), and 10 credits of online courses. Concise details of elective and skill enhancement courses were also presented. Further, discussion covered the uniform examination and evaluation system with a standardized grading process, followed by an overview of semester-wise course, credit allocation and department-wise credits distribution.

He also pointed out that at present three additional courses each with 2(1+1) credit hours related to IoT are being offered at AHS, VFSTR viz., Python Programming, Machine Learning and

Statistical Methods with Data Visualization. In this regard, he pointed a single course which is also approved in 6th BoS meeting 'Machine Learning through Python' as 3(2 + 1) credits to offer it in second semester of second year which combines the syllabus of all the three existing courses. Further, he also enlightened semester wise courses and credits allocation followed by department wise courses and credits distribution. Furthermore, he also pointed the need of finalization two skill enhancement courses for second year from the proposed courses *i.e.*, Production Technology of Bioagents, Seed Production and Testing Technology, Beneficial Insect Farming, Poultry Production Technology, Commercial Horticulture and Floriculture and Landscaping. Later, he also presented the assessment pattern (both formative and summative) of implementation of R-25 Regulations of VFSTR from the academic year 2025-26.

The committee suggested that the **Rural Agricultural Work Experience Program (RAWEP)** be conducted for a duration of **12 weeks** during the **Kharif season**, followed by an **Industrial Internship** for **10 weeks**, with a **one-day orientation program**. This program is to be offered **exclusively in the 7th semester**, while **elective courses** will be scheduled for the **8th semester**.

Dr. T. Ramesh Babu highlighted the significance and syllabi of the M.Sc. Agriculture program as per the adoption of Broad Subject Matter Area (BSMA) Committees Report 2022 of Indian Council of Agricultural Research (ICAR) and proposed its initiation in the disciplines of Agronomy, Soil Science, Horticulture (Vegetable Science and Floriculture & Landscaping), Entomology, and Agricultural Economics under the Department of Agricultural and Horticultural Sciences at VFSTR. He justified the proposal with supporting data on student enrollment trends at the national level, as well as the availability of faculty and infrastructure within the department.

The following are the observations:

1. **Agricultural Engineering:** All changes are accepted and no major suggestions are given.
2. **Computer Science:** All changes are accepted and suggested to teach in relevance to agriculture.
3. **Agronomy:** It was suggested that in course ***Crop Production Technology II (Rabi Crops)***, topics related to potato, medicinal and aromatic crops should be removed, as they are already covered in horticulture courses. Regarding the ***Water Management*** course, the topics in Module 2, Unit 1 should be adjusted to fit within 16 lectures, with the addition of "*Duty and Delta of Water*" and "*Effective Rainfall*." In Module 2, Unit 3, the inclusion of artificial intelligence needs to be verified, as it may not be relevant. Additionally, it was proposed that this course could be offered by the

Agricultural Engineering Department. For the course *Introduction to Agro-meteorology*, the inclusion of El Niño and La Niña in theoretical concepts was recommended due to their significance and need to be included. In the *Weed Management* course, studies on the weed seed bank should be incorporated, and the content should be reviewed and elaborated in the lecture outlines. In Module 2 practices, the topic "*Study of Weeds in Different Situations*" should be revised to "*Study of Weeds in Different Cropping Systems*." For *Dryland agriculture/ Rainfed agriculture and watershed management* course, in Module 2 practices, topics related to *seed treatment and seed priming techniques for drought management* should be handled by the faculty of Seed Science and Technology. In Module 2, Unit 3, the sub title "*Watershed Management*" needs to be modified, and the course should cover long-term rainfall analysis concerning mathematical models and forecasting weather abnormalities.

4. **Soil Science:** It was recommended that in the *Problematic Soils and Their Management* course, the topic "*Biological activity in the rhizosphere of different problematic soils (saline and sodic soils)*" should be included in the practical sessions, as it holds significant importance.
5. **Genetics and Plant Breeding:** It was suggested that in *Crop Improvement-I and II*, the course content should be reorganized module-wise based on crop categories such as Cereals, Pulses, Oilseeds, Cash Crops, Fodder Crops, Vegetables, Fruits, and Flower Crops. Topics under Module 1 and Module 2, Units should be restructured accordingly. Additionally, biotic and abiotic stress should be included within crop-specific discussions rather than as a separate unit. It was also recommended to retain wheat while removing oats from the course. For *Fundamentals of Agricultural Biotechnology*, it was advised to incorporate *synthetic (transgenic) seeds* and include *genome editing tools (CRISPR, ZFN, and TALENs)* in Module 2, Unit 2, as a continuation of the marker-assisted breeding topic. Regarding SEC course *Seed Production and Testing Technology*, it was suggested that the course contents be shared with Dr. Arvind Kumar for confirmation.
6. **Entomology:** In the course *Pest Management in Crops and Stored Grains*, it is recommended that the *use of drones and Artificial Intelligence* in pest management be integrated under the existing Integrated Pest Management (IPM) topic. Additionally, the *IRAC* topic should be shifted to Module-2, Unit-2. In Module-1, Unit-1, it would be better to remove the term "*arthropod pests*" to ensure broader applicability. For Module-2, Unit-1, the *factors affecting stored grain loss* should be listed briefly in the lecture outlines, and the term "*insect pests*" should be rephrased for clarity. Moreover, the title of Module-2, Unit-1 should be updated to "*Domestic and Storage Entomology*" for greater precision. It is also suggested that in Module-2, Unit-2, the *classification of insecticides*,

toxicity, and formulation be moved to Module-2, Unit-3. The heading for Module-2, Unit-3 should be revised to “*Pesticide Residues or SPS.*” These revisions would benefit from further discussion with Dr. T. Naresh.

Regarding the **Fundamentals of Nematology** course, it is recommended that this topic be taught by the Entomology faculty, given its closer alignment with their area of expertise.

7. In the course **Entrepreneurship Development and Business Communication**, it is suggested that the title of Module-2, Unit-3 (*Market Resilience*) be discussed with Dr. K. Kareemulla and revised if necessary. For the course **Agricultural Marketing and Trade**, the unit headings under Module-1, Units-1 & 2 need modification, with Module-1, Unit-2 specifically recommended to be renamed as “*Global Trade Policies in Agricultural Marketing*” for better clarity. Additionally, it is proposed to update the course numbering as follows: *AECO 241 – Entrepreneurship Development and Business Communication*, *AECO 242 – Principles of Agricultural Economics and Farm Management*, *AECO 341 – Agricultural Marketing and Trade*, and *AECO 342 – Agricultural Finance & Cooperation* to ensure a systematic and logical course structure.
8. In the course **Diseases of Field & Horticultural Crops & Their Management**, it is recommended to remove cotton from Module-1, Unit-1 and shift it to Unit-2 under the Cash Crops category for better classification. Similarly, in **Agricultural Microbiology and Phyto-remediation**, the Bioremediation topic under Phyto-remediation is not entirely relevant in its current placement. It is suggested to rearrange the topics, placing Bioremediation at the end to maintain logical flow and coherence in the module structure.
9. In the course **Production Technology of Fruit and Plantation Crops**, it is suggested to revise the unit heading “Fruit Crops” in Module-1, Unit-1, as it does not align with the unit contents. *Dr. M. Chandrasurya Rao* is requested to review and provide recommendations. Additionally, *Betel Vine* should be included under the Plantation Crops unit to ensure comprehensive coverage. For **Production Technology of Vegetables and Spices**, it is recommended to cross-check the unit titles and revise them as necessary to align with the course content. Similarly, in **Commercial Horticulture**, the title of Practice Topic 1 in Module-1, regarding export value, should be changed to “*Introduction*” for better clarity. In **Ornamental Crops, MAPs, and Landscaping**, the course contents need to be rearranged by exchanging the content of Module-1, Unit-1 and Module-1, Unit-2. The title of Module-1, Unit-1 should be modified to “*Production Technology for Ornamental Crops under Open Conditions*”, while Module-1, Unit-2 should be renamed “*Production*

Technology for Ornamental Crops under Protected Conditions” to better match their respective contents. Additionally, the title of Module-2, Unit-1 should be updated to “*Production Technology of Medicinal Crops*”, and the term “*Landscaping*” should be removed from the title. Instead, the Landscaping topic should be relocated from Module-2, Unit-1 to Module-2, Unit-3 for improved coherence.

10. **Agricultural Extension Education:** Changes are accepted and no suggestions are recommended.
11. **Agricultural Statistics:** In the course **Basic and Applied Agricultural Statistics**, it is recommended to include *Problems on Probability and Binomial and Poisson Distributions* under Module-1 Practices for a more comprehensive understanding of probability concepts. Additionally, the title of Module-1, Unit-2 should be revised to align with the course contents. In Module-2, Unit-3, the title should be changed to “*Experimental Designs and Sampling Methods*”, removing the term “*Introduction*” for better clarity. Similarly, the heading of Module-2, Unit-1, currently “*Definition of Probability*,” should be modified as it does not accurately reflect the unit’s content. Under Module-1 practices, the topics namely problems on probability theory, binomial distribution and poison distribution need to be added. Under Module-2 Practices, it is suggested to include *Randomized Block Design (RBD)*, *Factorial Randomized Block Design (f-RBD)*, *Split Plot Design*, *Latin Square Design (LSD)*, and *Important Online Tools Used for Statistical Analysis and Data Analytics* Concepts to enhance practical learning and application.
12. **Livestock and Poultry Management:** It is suggested that Topic 26 be revised to “*Poultry Waste Management*” for better alignment with the course objectives in SEC course **Poultry Production Technology**. Additionally, Topic 25 should be updated to “*Management of Poultry Farm Equipment*” to reflect the specific focus. In the section on Poultry Equipment Management, it is recommended to include a detailed mention of *sanitary measures* to be addressed in the lecture outlines to ensure a comprehensive understanding of hygienic practices in poultry farming.

The following recommendations and approvals are made after the discussion:

Finally, the following five major decisions were taken with respect to adopting the revised curriculum of B.Sc. (Hons.) Agriculture programme in VFSTR as per the ICAR 6th Deans’ committee report in tune with NEP 2020 and implementation M.Sc. Agriculture Programme.

- i. The B.Sc. (Hons.) Agriculture programme will be assessed based on R-25 Regulations of VFSTR from the Academic Year 2025-26.

- ii. Out of seven skill enhancement courses (SECs) proposed namely Production Technology of Bioagents, Seed Production and Testing Technology, Beneficial Insect Farming, Poultry Production Technology, Commercial Horticulture, Floriculture and Landscaping and Video Production, two will be finalized as per the need based and facilities available in the department to offer during first and second semesters of second year.
- iii. The Rural Agricultural Work Experience Program (RAWEP) will be conducted for a duration of 12 weeks during the *Kharif* season, followed by an Industrial Internship for 10 weeks, with a one-day orientation program. This program will be offered exclusively in the 7th semester, while elective courses will be scheduled for the 8th semester.
- iv. The commencement of the M.Sc. Agriculture program in Agronomy, Soil Science, Horticulture (Vegetable Science and Floriculture & Landscaping), Entomology, and Agricultural Economics will be from 2025-26 Academic Year. Additionally, it is recommended to introduce a PG program in Genetics and Plant Breeding, highlighting its competitive nature and potential to strengthen the institution's reputation in crop improvement by recruiting one Associate Professor or Assistant Professor with Ph.D. in Genetics and Plant Breeding.

Remarks of BoS Experts:

1. **Dr. Arvindkumar:** Acknowledged the faculty for their well-executed presentations during the BoS meeting and appreciated their efforts in aligning with the 6th Dean Committee recommendations. He expressed optimism for the continued progress of academic and institutional development. He advised faculty handling Skill Enhancement Courses to ensure the practical feasibility of course content and arrange necessary facilities to enhance learning. He congratulated the faculty on the upcoming launch of PG programs from the new academic year and specifically recommended the introduction of PG program in *Genetics and Plant Breeding*, emphasizing its competitive nature and potential to enhance the institution's reputation in crop improvement. Additionally, he recognized the well-equipped AHS farm, including the Incubation Centre, Conference Hall, and Hi-tech Nursery, as valuable resources for academic and research activities. He appreciated the interactive session with final-year students for its engaging and insightful discussions. Furthermore, he suggested introducing a Skill Enhancement Course in collaboration with the Agricultural Engineering Department to provide hands-on training on drones and advanced agricultural technology, reinforcing the institution's commitment to practical and technological advancements.
2. **Dr. K.P.C. Rao:** Appreciated and congratulated VFSTR on achieving ABET accreditation, recognizing it as a significant milestone. He noted that the extensive course content presents a

challenge in concise delivery and emphasized the importance of effectively explaining concepts to enhance student understanding. He stressed the need *to prioritize placements for the first outgoing batch, ensuring their smooth transition into the job market*. Expressing optimism for graduates, he hoped for better career opportunities and successful professional settlements, reinforcing the institution's commitment to student success.

3. **Dr. T.V. Satyanarayana:** Congratulated the VFSTR management for securing ABET accreditation and achieving a commendable NIRF ranking. He also extended his congratulations to the final-year students who will soon graduate, recognizing their outstanding performance. He emphasized that all faculty presentations were well-prepared and praiseworthy. Additionally, he expressed his appreciation for the experience of working with Dr. Ramesh Babu at ANGRAU during 2015-17, describing it as a turbulent yet successful period marked by an invincible team.

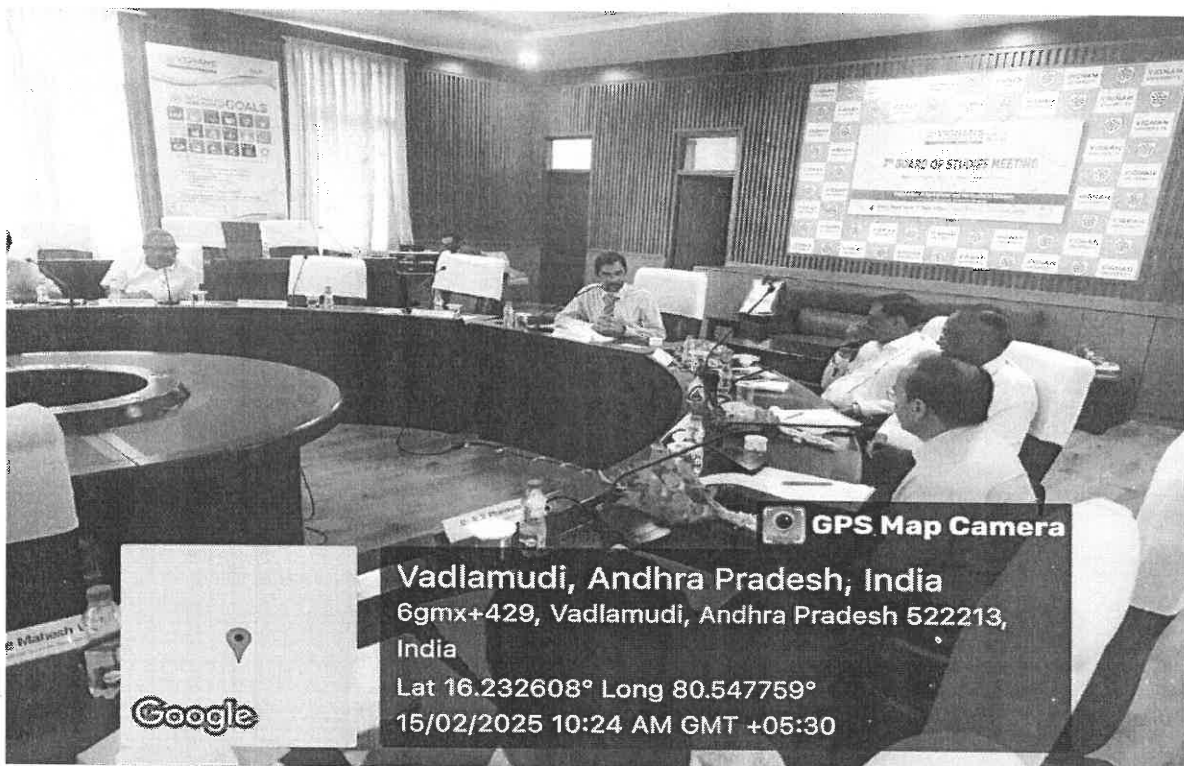
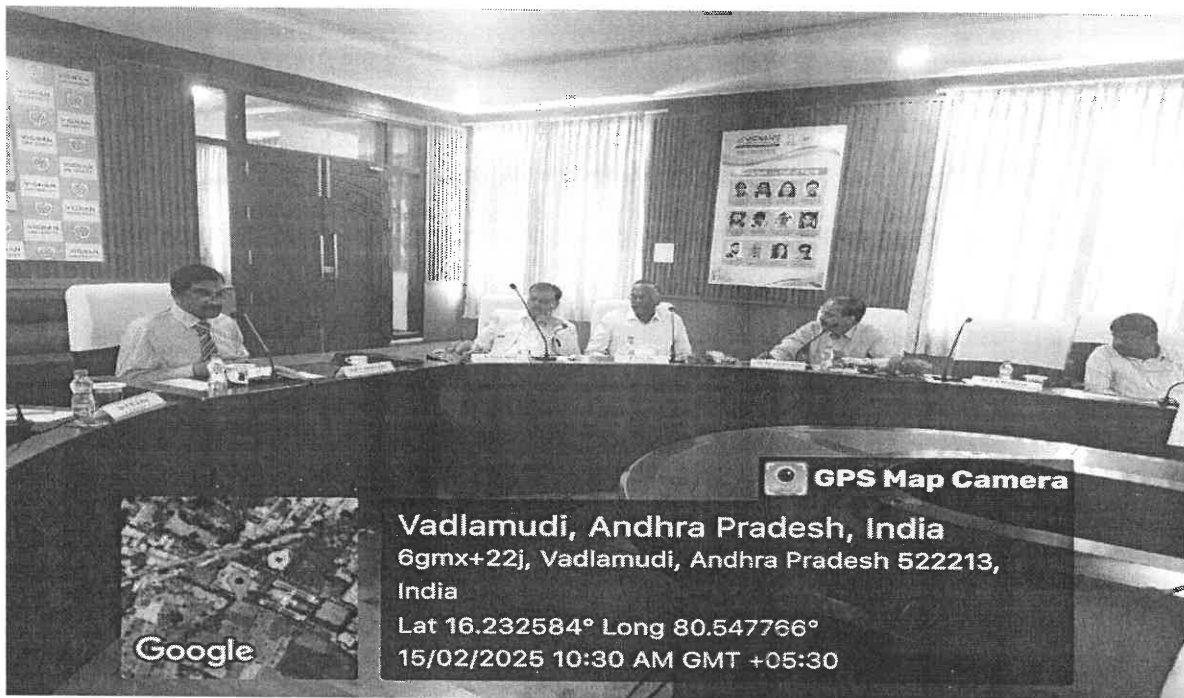
Closing remarks: Acknowledged the dedicated efforts of the faculty in delivering their presentations and expressed sincere gratitude to the esteemed guests for visiting the AHS farm and providing valuable suggestions for all courses. He also appreciated the ongoing research trials conducted by research scholars and emphasized the importance of incorporating all recommended changes suggested by external experts to enhance academic and research outcomes.


(M. CHAKIDRA SURYARAM)
Member Secretary

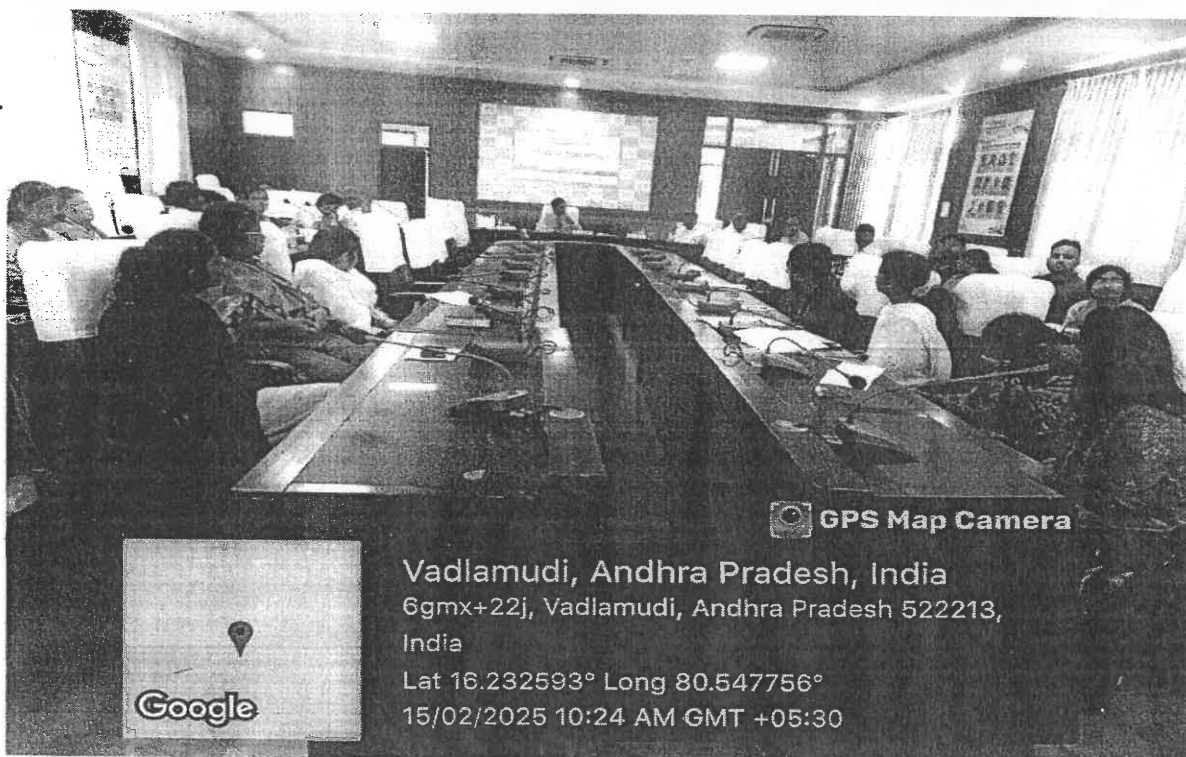
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7th Board of Studies Meeting of the Department of Agricultural and Horticultural Sciences held on 15th February, 2025.



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Department of Agricultural and Horticultural Sciences

7th Board of Studies

Date: 15-02-2025

VFSTR, Vadlamudi

S.No	Name of the BoS Member / Faculty Member	Designation	Signature
1.	Prof. (Dr.) T. Ramesh Babu	Chair - BOS Dean - SAFT	
2.	Dr. Arvind Kumar	Vice President Prasad Seeds	
3.	Dr. KPC Rao	Honorary Fellow ICRISAT	
4.	Prof. T.V. Satyanarayana	Registered MNR Edu. Institutions	T.V. Satyanarayana
5.	Dr. M. Chandra Sujaya Rao	Asst. Prof. (Hort.)	
6.	Dr. Rajanand Hikmath	Asst. Prof.	
7.	Dr. T. Varaprasad	Asst. Director, AHS	
8.	Dr. Mahesh Hadole	Coordinator, AE	
9.	Dr. M.L.N. Nandini	Assistant Professor AHS	
10.	Dr. B. Srinivasulu	Assistant Prof. AHS	
11.	Dr. Kamalak	Asst. Prof.	
12.	Dr. A. Anura Kumar	Asst. Professor	
13.	Dr. L. Geethanjali	Asst. Professor	
14.	Dr. P. Susmitha	Asst. Prof.	
15.	Mr. J. Netha	Asst. Prof.	
16.	V. Priyanka Raj	Asst. Prof	
17.	N. Kavya	Asst. Prof	
18.	Dr. Tejasree	TRA	
19.	Mrs. K. Himabindu	Asst. Prof.	
20.	N. Venkata vyshnavi	Asst. Prof	
21.	P. Amrutha Varshini	Asst. Prof.	
22.	Ms. Rahaman Khan	Asst. Prof.	
23.	Mrs. Sheeh. Sheena	Asst. Prof	
24.	Mr. M. Yousuf	Asst. Prof	
25.	Mrs. P. Uma Maheswari	Asst. Professor.	
26.	Dr. M. Anurha	Asst. prof.	
27.	Dr. G. Siva Naga Raju	Asst. Professor	
28.	Dr. Vishumpandi Senthil	Asst. Professor	
29.	Dr. P. SWARNALATHA	Asst. Professor	
30.	Mr. J. Kanna	Asst. Professor	

Department of Agricultural and Horticultural Sciences

7th Board of Studies

Date: 15-02-2025

VFSTR, Vadlamudi

S.No	Name of the BoS Member / Faculty Member	Designation	Signature
1.	Dr. P. Praveen Kumar	Asst. Prof [Eco]	
2.	Mr. Anishath Sani	Asst. Prof. []	
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DEPARTMENT OF AGRICULTURAL AND HORTICULTURAL SCIENCES

APPENDIX I

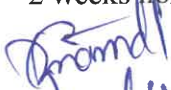
B.Sc. (Hons.) Agriculture Programme: Curriculum Structure (As per the Academic Year 2025-26, R25)

I Year I Semester Structure

Sl. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Deeksharambh*		0	0	4	0	2	Professional core	AHS
2	Fundamentals of Agronomy		2	0	2	2	3	Professional core	AHS
3	Fundamentals of Soil Science		2	0	2	2	3	Professional core	AHS
4	Fundamentals of Horticulture		2	0	2	2	3	Professional core	AHS
5	Farming Based Livelihood Systems		2	0	2	2	3	Professional core	AHS
6	Rural Sociology and Educational Psychology		2	0	0	2	2	Humanities and Management	AHS
7	Communication Skills		1	0	2	1	2	Basic Science	English
8	Introductory Mathematics		0	0	2	0	1	Basic Science	AHS
9	Soil, Plant and Water Testing (SEC-I)		0	0	4	0	2	Professional core	AHS
10	Horticulture Nursery Management (SEC-II)		0	0	4	0	2	Professional core	AHS
11	National Service Scheme (NSS-I)		0	0	2	0	1	Physical fitness	AHS
Total			11	0	22+4	11	22+2		
Total contact hours			44+4						

L=Lecture; T= Tutorial; P= Practical; C=Credits

*2 weeks non gradial course


Dr. Rajanand Harnath
 Asst. Professor & B.O.
 AHS Dept.


Dr. T. Naresh
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Dr. T. RAMESH BABU
 DIRECTOR
 Department of Agricultural and
 Horticultural Sciences
 VFSTR (Deemed to be University)

I Year II Semester Structure

Sl. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By	
1	Fundamentals of Entomology		2	0	2	2	3	Professional core	AHS	
2	Fundamentals of Plant Pathology		2	0	2	2	3	Professional core	AHS	
3	Soil Fertility Management		2	0	2	2	3	Professional core	AHS	
4	Livestock and Poultry Management		1	0	2	1	2	Professional core	AHS	
5	Environmental Studies and Disaster Management		2	0	2	2	3	Professional core	AHS	
6	Personality Development		1	0	2	1	2	Professional core	AHS	
7	Agriculture Waste Management (SEC-III)		0	0	4	0	2	Professional core	AHS	
8	Organic Production Technology (SEC-IV)		0	0	4	0	2	Professional core	AHS	
9	National Service Scheme (NSS-I)/ National Cadet Corps (NCC-I)		0	0	2	0	1	Physical fitness	AHS	
Total			10	0	22	10	21			
Total contact hours			42							

L=Lecture; T= Tutorial; P= Practical; C=Credits

Rajendra
Dr. Rajendra Kumar
Asst. Professor & B.A.
AHS Dept.

Naresh
Dr. T. Naresh
Coordinator
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II Year I Semester Structure

S. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By	
1	Video Production (SEC-V)		0	0	4	0	2	Professional core	AHS	
2	Entrepreneurship Development and Business Communication (MDC)		2	0	2	2	3	Professional core	AHS	
3	Physical Education, First Aid and Yoga Practices (AEC)		0	0	4	0	2	Physical fitness	Physical education	
4	Principles of Genetics		2	0	2	2	3	Professional core	AHS	
5	Crop Production Technology-I (<i>Kharif</i> crops)		1	0	4	1	3	Professional core	AHS	
6	Production Technology of Fruit and Plantation Crops		1	0	2	1	2	Professional core	AHS	
7	Fundamentals of Extension Education		1	0	2	1	2	Professional core	AHS	
8	Fundamentals of Nematology		1	0	2	1	2	Professional core	AHS	
9	Principles and Practices of Natural Farming		1	0	2	1	2	Professional core	AHS	
Total			9	0	24	9	21			
Total contact hours			42							

L=Lecture; T= Tutorial; P= Practical; C=Credits

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II Year II Semester Structure

S. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Floriculture and Landscaping (SEC VI)		0	0	4	0	2	Professional core	AHS
2	Agricultural Informatics and Artificial Intelligence (VAC)		2	0	2	2	3	Professional core	CSE
3	Production Technology of Vegetables and Spices		1	0	2	1	2	Professional core	AHS
4	Principles of Agricultural Economics and Farm Management		2	0	0	2	2	Professional core	AHS
5	Crop Production Technology-II (Rabi Crops)		1	0	4	1	3	Professional core	AHS
6	Farm Machinery and Power		1	0	2	1	2	Professional core	AHS
7	Water Management		1	0	2	1	2	Professional core	AHS
8	Problematic Soils and their management		1	0	2	1	2	Professional core	AHS
9	Basics of Plant Breeding		2	0	2	2	3	Professional core	AHS
10	Machine Learning through Python		2	0	2	2	3	Basic engineering	CSE
Total			13	0	22	13	24		
Total contact hours			48						

L=Lecture; T= Tutorial; P= Practical; C=Credits


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III Year I Semester Structure

Sl. No	Course Title	Code	L	T	P	C	Category	Course Offered By
1	Agricultural Marketing and Trade (MDC)		2	0	2	3	Professional core	AHS
2	Introduction to Agro-meteorology		1	0	2	2	Professional core	AHS
3	Fundamentals of Crop Physiology		2	0	2	3	Professional core	AHS
4	Pest management in Crops and Stored Grains		2	0	2	3	Professional core	AHS
5	Diseases of Field & Horticultural Crops & their Management		2	0	2	3	Professional core	AHS
6	Crop Improvement – I (Kharif crops)		1	0	2	2	Professional core	AHS
7	Weed Management		1	0	2	2	Professional core	AHS
8	Ornamental Crops, MAPs and Landscaping		1	0	2	2	Professional core	AHS
9	Introductory Agro forestry		1	0	2	2	Professional core	AHS
Total			13	0	18	22		
Total contact hours			31					
10	Online course*		-	-	-	3	Online/ non gradial	Through any online portal

L=Lecture; T= Tutorial; P= Practical; C=Credits

*Online non gradial courses of 10 credits need to be self-studied by student during the entire 4-year course programme as per his/ her convenience by informing to Dean of institute.

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III Year II Semester Structure


S.No	Course Title	Code	L	T	P	SL	C	Category	Course Offered By	
1	Fundamentals of Agri Biotechnology		2	0	2	2	3	Professional core	AHS	
2	Basic and Applied Agril. Statistics		2	0	2	2	3	Professional core	AHS	
3	Crop Improvement – II (Rabi crops)		1	0	2	1	2	Professional core	AHS	
4	Renewable energy in Agriculture and Allied Sector		1	0	2	1	2	Professional core	AGE	
5	Dryland agriculture/ Rainfed agriculture and watershed management		1	0	2	1	2	Professional core	AHS	
6	Essentials of Plant Biochemistry		2	0	2	2	3	Professional core	AHS	
7	Agricultural Microbiology and Phyto-remediation		1	0	2	1	2	Professional core	AHS	
8	Agricultural Finance & Cooperation		1	0	2	1	2	Professional core	AHS	
9	Fundamentals of Seed Science & Technology		1	0	2	1	2	Professional core	AHS	
Total Credits			12	0	18	12	21			
Total contact hours			42							
	Online course*		-	-	-		4	Online/ non gradial	Through any online portal	

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IV Year I Semester Structure

Sl. No.	Course Title	Code	L	T	P	C	Category	Course Offered By
1	Elective course I		3	0	2	4	Department elective	AHS
2	Elective course II		3	0	2	4	Department elective	AHS
3	Elective course III		3	0	2	4	Department elective	AHS
4	Elective course IV		3	0	2	4	Department elective	AHS
5	Elective course V		3	0	2	4	Department elective	AHS
Total Credits			15	0	10	20		
			25					
6	Online course*		-	-	-	5	Online/ non gradial	Through any online portal

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***Online non gradial courses of 10 credits need to be self-studied by student during the entire 4-year course programme as per his/ her convenience by informing to Dean of institute.**

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IV Year II Semester Structure

Sl. No.	Course Title	Code	L	T	P	C	Category	Course Offered By
1	Experiential Learning / Hands-on Training/ Project Work / Internship		0	0	40	20	Basic Science	AHS
Total Credits			0	0	40	20		
2	Online course*		-	-	-	5	Online/ non gradial	Through any online portal

L=Lecture; T= Tutorial; P= Practical; C=Credits

***Online non gradial courses of 10 credits need to be self-studied by student during the entire 4-year course programme as per his/ her convenience by informing to Dean of institute.**

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List of Skill Enhancement Courses

S.No	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Biofertilizer and biopesticide production		0	0	4	0	2	Professional core	AHS
2	Production Technology of Bioagents		0	0	4	0	2	Professional core	AHS
3	Seed Production and Testing Technology		0	0	4	0	2	Professional core	AHS
4	Mushroom Production Technology		0	0	4	0	2	Professional core	AHS
5	Soil, Plant and Water Testing		0	0	4	0	2	Professional core	AHS
6	Post-harvest Processing Technology		0	0	4	0	2	Professional core	AHS
7	Beneficial Insect Farming		0	0	4	0	2	Professional core	AHS
8	Plantation Crop Production and Processing		0	0	4	0	2	Professional core	AHS
9	Poultry Production Technology		0	0	4	0	2	Professional core	AHS
10	Piggery Production Technology		0	0	4	0	2	Professional core	AHS
11	Commercial Horticulture		0	0	4	0	2	Professional core	AHS
12	Floriculture and Landscaping		0	0	4	0	2	Professional core	AHS
13	Food Processing		0	0	4	0	2	Professional core	AHS
14	Agriculture Waste Management		0	0	4	0	2	Professional core	AHS
15	Organic Production Technology		0	0	4	0	2	Professional core	AHS
16	Commercial Sericulture		0	0	4	0	2	Professional core	AHS
17	Horticulture Nursery Management		0	0	4	0	2	Professional core	AHS
18	Video Production		0	0	4	0	2	Professional core	AHS

L=Lecture; T= Tutorial; P= Practical; C=Credits

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List of Elective Courses

S.No	Course Title	Code	L	T	P	C	Category	Course Offered By
1	Agri-Business Management		3	0	2	4	Elective course	AHS
2	Management of natural resources		3	0	2	4	Elective course	AHS
3	Agrochemicals		3	0	2	4	Elective course	AHS
4	Agricultural Journalism		3	0	2	4	Elective course	AHS
5	Landscaping		3	0	2	4	Elective course	AHS
6	Commercial Plant breeding		3	0	2	4	Elective course	AHS
7	Food safety and standards		3	0	2	4	Elective course	AHS
8	Bioformulation and Nano formulation		3	0	2	4	Elective course	AHS
9	Biopesticides and Biofertilizers		3	0	2	4	Elective course	AHS
10	System Simulation and Agro advisory		3	0	2	4	Elective course	AHS
11	Hi-tech Horticulture		3	0	2	4	Elective course	AHS
12	Protected cultivation		3	0	2	4	Elective course	AHS
13	Climate Resilient Agriculture		3	0	2	4	Elective course	AHS
14	Biotechnology of Crop Improvement		3	0	2	4	Elective course	AHS
15	Geoinformatics and Remote Sensing, precision farming		3	0	2	4	Elective course	AHS
16	Micro-propagation Technologies		3	0	2	4	Elective course	AHS
17	Commercial Seed Production		3	0	2	4	Elective course	AHS
18	Principles and Practices of Organic Farming/ Conservation Agriculture		3	0	2	4	Elective course	AHS
19	Food Science and Nutrition		3	0	2	4	Elective course	AHS
20	Post-Harvest Technology and Value Addition		3	0	2	4	Elective course	AHS

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DEPARTMENT OF AGRICULTURAL AND HORTICULTURAL SCIENCES

APPENDIX I

B.Sc. (Hons.) Agriculture Programme: Curriculum Structure (As per the Academic Year 2024-25, R24)

I Year I Semester Structure

Sl. No.	Course Title	Code	L	T	P	C	Category	Course Offered By
1	Deeksharambh*		0	0	4	2	Professional core	AHS
2	Fundamentals of Agronomy		2	0	2	3	Professional core	AHS
3	Fundamentals of Soil Science		2	0	2	3	Professional core	AHS
4	Fundamentals of Horticulture		2	0	2	3	Professional core	AHS
5	Farming Based Livelihood Systems		2	0	2	3	Professional core	AHS
6	Rural Sociology and Educational Psychology		2	0	0	2	Humanities and Management	AHS
7	Communication Skills		1	0	2	2	Basic Science	English
8	Introductory Mathematics		0	0	2	1	Basic Science	AHS
9	Soil, Plant and Water Testing (SEC-I)		0	0	4	2	Professional core	AHS
10	Horticulture Nursery Management (SEC-II)		0	0	4	2	Professional core	AHS
11	National Service Scheme (NSS-I)		0	0	2	1	Physical fitness	AHS
Total			11	0	22+4	22+2		
Total contact hours			33+4					

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*2 weeks non gradial course

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I Year II Semester Structure

Sl. No.	Course Title	Code	L	T	P	C	Category	Course Offered By
1	Fundamentals of Entomology		2	0	2	3	Professional core	AHS
2	Fundamentals of Plant Pathology		2	0	2	3	Professional core	AHS
3	Soil Fertility Management		2	0	2	3	Professional core	AHS
4	Livestock and Poultry Management		1	0	2	2	Professional core	AHS
5	Environmental Studies and Disaster Management		2	0	2	3	Professional core	AHS
6	Personality Development		1	0	2	2	Professional core	AHS
7	Agriculture Waste Management (SEC-III)		0	0	4	2	Professional core	AHS
8	Organic Production Technology (SEC-IV)		0	0	4	2	Professional core	AHS
9	National Service Scheme (NSS-I)/ National Cadet Corps (NCC-I)		0	0	2	1	Physical fitness	AHS
Total			10	0	22	21		
Total contact hours			32					

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II Year I Semester Structure

S. No.	Course Title	Code	L	T	P	C	Category	Course Offered By
1	Video Production (SEC-V)		0	0	4	2	Professional core	AHS
2	Entrepreneurship Development and Business Communication (MDC)		2	0	2	3	Professional core	AHS
3	Physical Education, First Aid and Yoga Practices (AEC)		0	0	4	2	Physical fitness	Physical education
4	Principles of Genetics		2	0	2	3	Professional core	AHS
5	Crop Production Technology-I (<i>Kharif</i> crops)		1	0	4	3	Professional core	AHS
6	Production Technology of Fruit and Plantation Crops		1	0	2	2	Professional core	AHS
7	Fundamentals of Extension Education		1	0	2	2	Professional core	AHS
8	Fundamentals of Nematology		1	0	2	2	Professional core	AHS
9	Principles and Practices of Natural Farming		1	0	2	2	Professional core	AHS
Total			9	0	24	21		
Total contact hours			30					

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II Year II Semester Structure

S. No.	Course Title	Code	L	T	P	C	Category	Course Offered By
1	Floriculture and Landscaping (SEC VI)		0	0	4	2	Professional core	AHS
2	Agricultural Informatics and Artificial Intelligence (VAC)		2	0	2	3	Professional core	CSE
3	Production Technology of Vegetables and Spices		1	0	2	2	Professional core	AHS
4	Principles of Agricultural Economics and Farm Management		2	0	0	2	Professional core	AHS
5	Crop Production Technology-II (Rabi Crops)		1	0	4	3	Professional core	AHS
6	Farm Machinery and Power		1	0	2	2	Professional core	AHS
7	Water Management		1	0	2	2	Professional core	AHS
8	Problematic Soils and their management		1	0	2	2	Professional core	AHS
9	Basics of Plant Breeding		2	0	2	3	Professional core	AHS
10	Machine Learning through Python		2	0	2	3	Basic engineering	CSE
Total			13	0	22	24		
Total contact hours			35					

L=Lecture; T= Tutorial; P= Practical; C=Credits


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III Year I Semester Structure

Sl. No	Course Title	Code	L	T	P	SL	C	Category	Course Offered By	
1	Agricultural Marketing and Trade (MDC)		2	0	2	2	3	Professional core	AHS	
2	Introduction to Agro-meteorology		1	0	2	1	2	Professional core	AHS	
3	Fundamentals of Crop Physiology		2	0	2	2	3	Professional core	AHS	
4	Pest management in Crops and Stored Grains		2	0	2	2	3	Professional core	AHS	
5	Diseases of Field & Horticultural Crops & their Management		2	0	2	2	3	Professional core	AHS	
6	Crop Improvement – I (Kharif crops)		1	0	2	1	2	Professional core	AHS	
7	Weed Management		1	0	2	1	2	Professional core	AHS	
8	Ornamental Crops, MAPs and Landscaping		1	0	2	1	2	Professional core	AHS	
9	Introductory Agro forestry		1	0	2	1	2	Professional core	AHS	
	Total		13	0	18	13	22			
Total contact hours			44							
10	Online course*		-	-	-		3	Online/ non gradial	Through any online portal	

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***Online non gradial courses of 10 credits need to be self-studied by student during the entire 4-year course programme as per his/ her convenience by informing to Dean of institute.**

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III Year II Semester Structure


S.No	Course Title	Code	L	T	P	C	Category	Course Offered By
1	Fundamentals of Agri Biotechnology		2	0	2	3	Professional core	AHS
2	Basic and Applied Agril. Statistics		2	0	2	3	Professional core	AHS
3	Crop Improvement – II (Rabi crops)		1	0	2	2	Professional core	AHS
4	Renewable energy in Agriculture and Allied Sector		1	0	2	2	Professional core	AGE
5	Dryland agriculture/ Rainfed agriculture and watershed management		1	0	2	2	Professional core	AHS
6	Essentials of Plant Biochemistry		2	0	2	3	Professional core	AHS
7	Agricultural Microbiology and Phyto -remediation		1	0	2	2	Professional core	AHS
8	Agricultural Finance & Cooperation		1	0	2	2	Professional core	AHS
9	Fundamentals of Seed Science & Technology		1	0	2	2	Professional core	AHS
Total Credits			12	0	18	21		
Total contact hours			30					
	Online course*		-	-	-	4	Online/ non gradial	Through any online portal

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IV Year I Semester Structure

Sl. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Elective course I		3	0	2	3	4	Department elective	AHS
2	Elective course II		3	0	2	3	4	Department elective	AHS
3	Elective course III		3	0	2	3	4	Department elective	AHS
4	Elective course IV		3	0	2	3	4	Department elective	AHS
5	Elective course V		3	0	2	3	4	Department elective	AHS
Total Credits			15	0	10	15	20		
			40						
6	Online course*		-	-	-		5	Online/ non gradial	Through any online portal

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IV Year II Semester Structure

Sl. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Experiential Learning / Hands-on Training/ Project Work / Internship		0	0	40	0	20	Basic Science	AHS
Total Credits			40				20		
2	Online course*		-	-	-		5	Online/ non gradial	Through any online portal

L=Lecture; T= Tutorial; P= Practical; C=Credits

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List of Skill Enhancement Courses

S.No	Course Title	Code	L	T	P	C	Category	Course Offered By
1	Biofertilizer and biopesticide production		0	0	4	2	Professional core	AHS
2	Production Technology of Bioagents		0	0	4	2	Professional core	AHS
3	Seed Production and Testing Technology		0	0	4	2	Professional core	AHS
4	Mushroom Production Technology		0	0	4	2	Professional core	AHS
5	Soil, Plant and Water Testing		0	0	4	2	Professional core	AHS
6	Post-harvest Processing Technology		0	0	4	2	Professional core	AHS
7	Beneficial Insect Farming		0	0	4	2	Professional core	AHS
8	Plantation Crop Production and Processing		0	0	4	2	Professional core	AHS
9	Poultry Production Technology		0	0	4	2	Professional core	AHS
10	Piggery Production Technology		0	0	4	2	Professional core	AHS
11	Commercial Horticulture		0	0	4	2	Professional core	AHS
12	Floriculture and Landscaping		0	0	4	2	Professional core	AHS
13	Food Processing		0	0	4	2	Professional core	AHS
14	Agriculture Waste Management		0	0	4	2	Professional core	AHS
15	Organic Production Technology		0	0	4	2	Professional core	AHS
16	Commercial Sericulture		0	0	4	2	Professional core	AHS
17	Horticulture Nursery Management		0	0	4	2	Professional core	AHS
18	Video Production		0	0	4	2	Professional core	AHS

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List of Elective Courses

S.No	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Agri-Business Management		3	0	2	3	4	Elective course	AHS
2	Management of natural resources		3	0	2	3	4	Elective course	AHS
3	Agrochemicals		3	0	2	3	4	Elective course	AHS
4	Agricultural Journalism		3	0	2	3	4	Elective course	AHS
5	Landscaping		3	0	2	3	4	Elective course	AHS
6	Commercial Plant breeding		3	0	2	3	4	Elective course	AHS
7	Food safety and standards		3	0	2	3	4	Elective course	AHS
8	Bioformulation and Nano formulation		3	0	2	3	4	Elective course	AHS
9	Biopesticides and Biofertilizers		3	0	2	3	4	Elective course	AHS
10	System Simulation and Agro advisory		3	0	2	3	4	Elective course	AHS
11	Hi-tech Horticulture		3	0	2	3	4	Elective course	AHS
12	Protected cultivation		3	0	2	3	4	Elective course	AHS
13	Climate Resilient Agriculture		3	0	2	3	4	Elective course	AHS
14	Biotechnology of Crop Improvement		3	0	2	3	4	Elective course	AHS
15	Geoinformatics and Remote Sensing, precision farming		3	0	2	3	4	Elective course	AHS
16	Micro-propagation Technologies		3	0	2	3	4	Elective course	AHS
17	Commercial Seed Production		3	0	2	3	4	Elective course	AHS
18	Principles and Practices of Organic Farming/ Conservation Agriculture		3	0	2	3	4	Elective course	AHS
19	Food Science and Nutrition		3	0	2	3	4	Elective course	AHS
20	Post-Harvest Technology and Value Addition		3	0	2	3	4	Elective course	AHS

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M.Sc. Agriculture Programme: Curriculum Structure
(As per the Academic Year 2025-26, R25)

Division of Agronomy

Sl. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Modern Concepts in Crop Production*		3	0	0	3	3	Major	AHS
2	Principles and practices of soil fertility and nutrient management*		2	0	2	2	3	Major	AHS
3	Principles and Practices of Weed Management*		2	0	2	2	3	Major	AHS
4	Principles and Practices of Water Management*		2	0	2	2	3	Major	AHS
5	Conservation Agriculture		1	0	2	1	2	Major	AHS
6	Agronomy of major Cereals and Pulses		2	0	0	2	2	Major	AHS
7	Agronomy of oilseed, fibre and sugar crops		2	0	2	2	3	Major	AHS
8	Agronomy of medicinal, aromatic & underutilized crops		2	0	2	2	3	Major	AHS
9	Agronomy of fodder and forage crops		2	0	2	2	3	Major	AHS
10	Agrostology and Agro- Forestry		2	0	2	2	3	Major	AHS
11	Cropping System and Sustainable Agriculture		2	0	0	2	2	Major	AHS
12	Dryland Farming and Watershed Management		2	0	2	2	3	Major	AHS
13	Principles and practices of organic farming		2	0	2	2	3	Major	AHS
14	Master's Seminar		1	0	0	1	1	Major	AHS
15	Master's research		0	0	30	0	30	Major	AHS

*Indicates core course which is Compulsory course for M Sc.(Agri)

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Division of Soil Science

Sl. No.	Course Title	Code	L	T	P	SL	C	Remarks	Course Offered By
1	Soil physics*		2	0	2	2	3	Major	AHS
2	Soil fertility and fertilizer use*		2	0	2	2	3	Major	AHS
3	Soil chemistry*		2	0	2	2	3	Major	AHS
4	Soil mineralogy, genesis and classification*		2	0	2	2	3	Major	AHS
5	Soil erosion and conservation		2	0	2	2	3	Major	AHS
6	Soil Biology and Biochemistry		2	0	2	2	3	Major	AHS
7	Radioisotopes in soil and plant studies		1	0	2	1	2	Major	AHS
8	Soil, water and air pollution		2	0	2	2	3	Major	AHS
9	Remote sensing and GIS technique for soil and crop studies		2	0	2	2	3	Major	AHS
10	Analytical technique and instrumental methods in soil and plant analysis		0	0	4	0	2	Major	AHS
11	Management of problematic soils and water		1	0	2	1	2	Major	AHS
12	Land degradation and restoration		1	0	0	1	1	Major	AHS
13	Soil Survey and Land use Planning		2	0	0	2	2	Major	AHS
14	Introduction to nanotechnology		2	0	2	2	3	Major	AHS
15	Master's Seminar		1	0	0	1	1	Major	AHS
16	Master's Research		0	0	30	0	30	Major	AHS

***Indicates Core Courses which are Compulsory for Master Programme**

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Division of Entomology

Sl. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Insect Morphology*		2	0	2	2	3	Major	AHS
2	Insect Anatomy and Physiology*		2	0	2	2	3	Major	AHS
3	Insect Taxonomy*		1	0	4	1	3	Major	AHS
4	Insect Ecology*		2	0	2	2	3	Major	AHS
5	Biological Control of Insect Pests and Weeds*		2	0	2	2	3	Major	AHS
6	Toxicology of Insecticides*		2	0	2	2	3	Major	AHS
7	Host Plant Resistance		1	0	2	1	2	Major	AHS
8	Concepts of Integrated Pest Management*		2	0	0	2	2	Major	AHS
9	Pests of Field Crops*		2	0	2	2	3	Major	AHS
10	Pests of Horticultural and Plantation Crops*		2	0	2	2	3	Major	AHS
11	Post Harvest Entomology*		1	0	2	1	2	Major	AHS
12	Insect Vectors of Plant Pathogens		1	0	2	1	2	Major	AHS
13	Principles of Acarology		1	0	2	1	2	Major	AHS
14	Vertebrate Pest Management		1	0	2	1	2	Major	AHS
15	Techniques in Plant Protection		0	0	2	0	1	Major	AHS
16	Apiculture		2	0	2	2	3	Major	AHS
17	Sericulture		2	0	2	2	3	Major	AHS
18	Lac Culture		2	0	2	2	3	Major	AHS
19	Molecular Approaches in Entomology		2	0	2	2	3	Major	AHS
20	Plant Quarantine, Biosafety and Biosecurity		2	0	0	2	2	Major	AHS
21	Edible and Therapeutic Insects		1	0	2	1	2	Major	AHS
22	Medical and Veterinary Entomology		1	0	2	1	2	Major	AHS
23	Forest Entomology		1	0	2	1	2	Major	AHS
24	Master's Seminar		1	0	0	1	1	Major	AHS
25	Master's research		0	0	30	0	30	Major	AHS

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Division of Plant Pathology

Sl. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Mycology*		2	0	2	2	3	Major	AHS
2	Plant Virology*		2	0	2	2	3	Major	AHS
3	Plant Pathogenic Prokaryotes*		2	0	2	2	3	Major	AHS
4	Plant Nematology*		2	0	2	2	3	Major	AHS
5	Principles of Plant Pathology*		2	0	2	2	3	Major	AHS
6	Techniques in Detection and Diagnosis of Plant Diseases*		0	0	4	0	2	Major	AHS
7	Principles of Plant Disease Management		2	0	2	2	3	Major	AHS
8	Epidemiology and Forecasting of Plant Diseases		1	0	0	1	1	Major	AHS
9	Disease Resistance in Plants		2	0	0	2	2	Major	AHS
10	Ecology of Soil-borne Plant Pathogens		1	0	0	2	2	Major	AHS
11	Chemicals and Botanicals in Plant Disease Management		2	0	2	2	3	Major	AHS
12	Detection and Management of Seed Borne Pathogens		2	0	2	2	3	Major	AHS
13	Biological Control of Plant Diseases		1	0	0	2	2	Major	AHS
14	Integrated Disease Management		2	0	2	2	3	Major	AHS
15	Diseases of Field and Medicinal Crops		2	0	2	2	3	Major	AHS
16	Diseases of Fruits, Plantation and Ornamental Crops		2	0	2	2	3	Major	AHS
17	Diseases of Vegetable and Spices Crops		2	0	2	2	3	Major	AHS
18	Post Harvest Diseases		2	0	2	2	3	Major	AHS
19	Plant Quarantine and Regulatory Measures		1	0	0	1	1	Major	AHS
20	Master's Seminar		1	0	0	1	1	Major	AHS
21	Master's Research		0	0	30	0	30	Major	AHS

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Division of Agricultural Economics

Sl. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Micro Economic Theory And Applications*		3	0	0	3	3	Major	AHS
2	Agricultural Production Economics*		1	0	2	1	2	Major	AHS
3	Agricultural Marketing and Price Analysis*		2	0	2	2	3	Major	AHS
4	Macro Economics And Policy*		2	0	0	2	2	Major	AHS
5	Econometrics*		2	0	2	2	3	Major	AHS
6	Agricultural Development and Policy Analysis		2	0	0	2	2	Major	AHS
7	Agricultural Finance and Project Management*		2	0	2	2	3	Major	AHS
8	Linear Programming*		1	0	2	1	2	Major	AHS
9	Research Methodology for Social Sciences*		1	0	2	1	2	Major	AHS
10	Indian Economy: History and Contemporary Issues		2	0	0	2	2	Major	AHS
11	International Economics		1	0	2	1	2	Major	AHS
12	Master's Seminar		1	0	0	1	1	Major	AHS
13	Master's Research		0	0	30	0	30	Major	AHS

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Division of Horticulture (Vegetable Science)

Sl. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Production of Cool Season Vegetable Crops*		2	0	2	2	3	Major	AHS
2	Production of Warm Season Vegetable Crops*		2	0	2	2	3	Major	AHS
3	Growth and Development of Vegetable Crops*		2	0	2	2	3	Major	AHS
4	Principles of Vegetable Breeding*		3	0	0	3	3	Major	AHS
5	Breeding of Self Pollinated Vegetable Crops		2	0	2	2	3	Major	AHS
6	Breeding of Cross Pollinated Vegetable Crops		2	0	2	2	3	Major	AHS
7	Protected Cultivation of Vegetable Crops		1	0	2	1	2	Major	AHS
8	Seed Production of Vegetable Crops		2	0	2	2	3	Major	AHS
9	Production of Underutilized Vegetable Crops		2	0	2	2	3	Major	AHS
10	Systematics of Vegetable Crops		1	0	2	1	2	Major	AHS
11	Organic Vegetable Production		1	0	2	1	2	Major	AHS
12	Production of Spice Crops		2	0	2	2	3	Major	AHS
13	Processing of Vegetable		1	0	2	1	2	Major	AHS
14	Postharvest Management of Vegetable Crops		2	0	2	2	3	Major	AHS
15	Master's Seminar		1	0	0	1	1	Major	AHS
16	Master's Research		0	0	30	0	30	Major	AHS

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Division of Horticulture (Floriculture and Landscaping)

Sl. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Systematics of Ornamental Plants*		2	0	2	2	2	Major	AHS
2	Breeding of Ornamental Crops*		2	0	2	2	3	Major	AHS
3	Commercial Production of Cut Flowers*		2	0	2	2	3	Major	AHS
4	Commercial Production of Loose Flowers*		2	0	2	2	3	Major	AHS
5	Ornamental Gardening and Landscaping*		2	0	2	2	3	Major	AHS
6	Indoor Plants and Interiorscaping		1	0	2	1	2	Major	AHS
7	Nursery Management in Ornamental Plants		2	0	2	2	3	Major	AHS
8	Turfgrass Management		2	0	2	2	3	Major	AHS
9	Value Addition in Floriculture		2	0	2	2	3	Major	AHS
10	Protected Cultivation of Flower Crops		2	0	2	2	3	Major	AHS
11	CAD for Landscaping		1	0	4	1	3	Major	AHS
12	Seed Production in Flower Crops		1	0	2	1	2	Major	AHS
13	Master's Seminar		1	0	0	1	1	Major	AHS
14	Master's Research		0	0	30	0	30	Major	AHS

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Supporting Courses (06 Credits)

Sl. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Mathematics for Applied Sciences		2	0	0	2	2	Supporting courses	AHS
2	Statistical Methods for Applied Sciences		3	0	2	3	4	Supporting courses	AHS
3	Experimental Designs		2	0	2	2	3	Supporting courses	AHS
4	Basic Sampling Techniques		2	0	2	2	3	Supporting courses	AHS
5	Applied Regression Analysis		2	0	2	2	3	Supporting courses	AHS
6	Data Analysis Using Statistical Packages		2	0	2	2	3	Supporting courses	AHS

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Common Compulsory Courses (05 Credits)

Sl. No.	Course Title	Code	L	T	P	SL	C	Category	Course Offered By
1	Library and Information Services		0	0	2	0	1	Common compulsory courses	Library Sciences
2	Technical Writing and Communications Skills		0	0	2	0	1	Common compulsory courses	English
3	Intellectual Property and its Management in Agriculture		1	0	0	1	1	Common compulsory courses	AHS
4	Basic Concepts in Laboratory Techniques		0	0	2	0	1	Common compulsory courses	AHS
5	Agricultural Research, Research Ethics and Rural Development Programmes		1	0	0	1	1	Common compulsory courses	AHS

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