

Syllabus : B.Sc.(Hons.) Agriculture

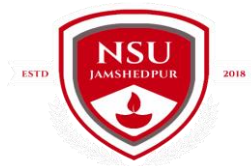
Bachelor of Science Honours in Agriculture

[B.Sc.(Hons.) Agriculture]

**Syllabus as Per 5th Dean Committee ICAR
Recommendation**

Semester-I

S.No.	SubjectCode	Subjects	Credit Hours
1	HORT-101	Fundamentals of Horticulture	2 (1+1)
2	BICM-101	Fundamentals of Plant Biochemistry and Biotechnology	3(2+1)
3	SSAC-101	Fundamentals of Soil Science	3(2+1)
4	AFOR-101	Introduction to Forestry	2 (1+1)
5	ENGL-101	Comprehension & Communication Skills in English	2 (1+1)
6	AGRO-101	Fundamentals of Agronomy	4(3+1)
7	EMAT-101	Elementary Mathematics	2(2+0)
8	AEXT-101	Rural Sociology & Educational Psychology	2 (2+0)
9	PEYP-101	Physical Education & Yoga Practices	Non- Gradiual
		Total	20 (14+6)



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Semester-II

S. No	Subject Code	Subjects	Credit Hours
1	GPBR-201	Fundamentals of Genetics	3(2+1)
2	AMBE-201	Agricultural Microbiology	2(1+1)
3	SWCE-201	Soil and Water Conservation Engineering	2(1+1)
4	CPHY-201	Fundamentals of Crop Physiology	2(1+1)
5	PATH-201	Fundamentals of Plant Pathology	4(3+1)
6	ENTO-201	Fundamentals of Entomology	4(3+1)
7	AEXT-201	Fundamentals of Agricultural Extension Education	3(2+1)
8	CSPD-201	Communication Skills and Personality Development	2(1+1)
9	AECO-201	Fundamentals of Agricultural Economics	2(2+0)
		Total	24 (16+8)

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Semester-III

S.No.	SubjectCode	Subjects	Credit Hours
1	AGRO-301	Crop Production Technology –I (Kharif Crops)	2 (1+1)
2	GPBR-301	Fundamentals of PlantBreeding	3 (2+1)
3	AGFC-301	Agricultural Finance andCooperation	3 (2+1)
4	AGIF-301	Agri-Informatics	2(1+1)
5	AFMP-301	Farm Machinery and Power	2 (1+1)
6	HORT-301	Production Technology forVegetables and Spices	2 (1+1)
7	ESDM-301	Environmental Studies andDisaster Management	3(2+1)
8	AGSM-301	Statistical Methods	2(1+1)
9	LSPM-301	Livestock and PoultryManagement	4 (3+1)
		Total	23 (14+9)

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Semester-IV

S.No.	Subject Code	Subjects	Credit Hours
1	AGRO-401	Crop Production Technology –II (<i>Rabi Crops</i>)	2(1+1)
2	HORT-401	Production Technology for Ornamental Crops, MAP and Landscaping	2(1+1)
3	HORT-402	Production Technology for Fruit and Plantation Crops	2(1+1)
4	REGT-401	Renewable Energy and Green Technology	2(1+1)
5	APST-401	Principles of Seed Technology	3(1+2)
6	AMTP-401	Agricultural Marketing Trade & Prices	3(2+1)
7	AMCC-401	Introductory Agro- meteorology & Climate Change	2(1+1)
8	ELCT-401	Elective Course: Micro propagation Technologies	3(1+2)
9	FSSA-401	Farming System & Sustainable Agriculture	1(1+0)
10	PBSM-401	Problematic Soils and their Management	2(2+0)
		Total	22(12+10)

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Semester-V

S.No.	Subject Code	Subjects	Credit Hours
1	IPDM-501	Principles of Integrated Pest and Disease Management	3(2+1)
2	MFSM-501	Manures, Fertilizers and Soil Fertility Management	3 (2+1)
3	PCSM-501	Pests of Crops and Stored Grain and their Management	3 (2+1)
4	DHCM-501	Diseases of Field and Horticultural Crops and their Management -I	3 (2+1)
5	CIKC-501	Crop Improvement-I (<i>Kharif Crops</i>)	2 (1+1)
6	EDBC-501	Entrepreneurship Development and Business Communication	2 (1+1)
7	GNPF-501	Geoinformatics and Nano-technology and Precision Farming	2 (1+1)
8	ELCT-501	Elective Course: Biopesticides & Biofertilizers	3(2+1)
9	AIPR-501	Intellectual Property Rights	1(1+0)
10	PCPK-501P	Practical Crop Production – I(<i>Kharif crops</i>)	2 (0+2)
		Total	24(14+10)

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Semester-VI

S.No	Subject Code	Subjects	Credit Hours
1	RAWM-601	Rainfed Agriculture & Watershed Management	2 (1+1)
2	PCSA-601	Protected Cultivation and Secondary Agriculture	2 (1+1)
3	DHCM-601	Diseases of Field and Horticultural Crops and their Management-II	3 (2+1)
4	PHMV-601	Post-harvest Management and Value Addition of Fruits and Vegetables	2 (1+1)
5	AMBI-601	Management of Beneficial Insects	2 (1+1)
6	CIRC-601	Crop Improvement-II (Rabi crops)	2 (1+1)
7	APOF-601	Principles of Organic Farming	2 (1+1)
8	FMRE-601	Farm Management, Production & Resource Economics	2 (1+1)
9	ELCT-601	Elective Course : Agribusiness Management	3(2+1)
10	PFSN-601	Principles of Food Science and Nutrition	2(2+0)
11	PCPR-601P	Practical Crop Production -II (<i>Rabi</i> crops)	2 (0+2)
		Total	24 (13+11)

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Semester- VII

Rural Awareness Works Experience (RAWE) and Agro-Industrial Attachment (AIA)

It will consist of general orientation training by different faculties followed by village attachment/unit attachment in University/College/KVK or a Research station. The students will be attached with the agro-industries to get an experience of the industrial environment and working. Weightage in terms of credit hours/ Marks will be given depending upon the duration of stay of students in villages/agro-industries. At the end of RAWE/AIA, the students will be given one week for project report preparation, presentation and evaluation. The students would be required to record their observations and will prepare their project report based on these observations.

Subject Code	Subjects	CODE	Credit Hours
RAWE & AIA	General orientation training by different faculties	RAWE-AIA	20
	Village attachment/Unit attachment in Univ./ College. KVK/ Research Station Attachment,		
	Agro-Industrial Attachment		
	Project Report Preparation & Presentation		
	Evaluation & Viva Voce		
Total			20

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Semester-VIII

CODE	Course title	Credits Hours
AELP	Experiential Learning Programme (AELP-801-812)	10 (0+10)
	Experiential Learning Programme (AELP-801-812)	10 (0+10)
	Total	20

Experiential Learning Programme (ELP)

This programme will be undertaken by the students preferably during the VIII semester with a weightage of 0+20 credit hours. The students will register for **any of two modules (of 0+10 credit each) listed below:**

S.No	Subject Code	Topic:	Credits
1	AELP-801	Production Technology for Bio-agents and Bio-fertilizers	10
2	AELP-802	Seed Production and Technology	10
3	AELP-803	Mushroom Cultivation Technology	10
4	AELP-804	Soil, Plant, Water and Seed Testing	10
5	AELP-805	Poultry Production Technology	10
6	AELP-806	Hybrid Seed Production Technologies	10
7	AELP-807	Floriculture and Landscaping	10
8	AELP-808	Food Processing	10
9	AELP-809	Commercial Horticulture	10
10	AELP-810	Agriculture Waste Management	10
11	AELP-811	Organic Production Technology	10
12	AELP-812	Commercial Sericulture	10