

JAGAN NATH UNIVERSITY
COURSE STRUCTURE (B.Sc.- Ag.) (Hons)
FIRST SEMESTER

		No. of Teaching			Marks Allocation				
Code	Subject / Paper	Type	L	P	Theory		Practical	Total	Credits
					Internal	External			
AGRON 4111	Introductory Agriculture and Principles of Agronomy	CORE	2	2	30	70	50	150	3(2+1)
PBG 4111	Principles of Genetics	CORE	2	2	30	70	50	150	3(2+1)
SCHEM 4111	Introduction to Soil Science	CORE	2	2	30	70	50	150	3(2+1)
EXTED 4111	Dimensions of Agricultural Extension	CORE	1	2	30	70	50	150	2(1+1)
PPATH 4111	Agricultural Microbiology	CORE	2	2	30	70	50	150	3 (2+1)
MATHS 4111	Elementary Mathematics	AECC	2	0	30	70	-	100	2(2+0)
ENG 4111	Comprehensive and Communication Skills in English	AECC	2	2	30	70	50	150	3(2+1)
COMP 4111	Introduction to Computer Applications	SEC	1	2	30	70	50	150	2(1+1)
NSNC-4221	NCC/NSS	GENERIC	-	-	-	-	-	-	-
	TOTAL		14	14				1150*	21

*Passing marks will be 40% for individual paper and 50% in a semester aggregate

SECOND SEMESTER

		No. of Teaching			Marks Allocation				
Code	Subject / Paper	Type	L	P	Theory		Practical	Total	Credits
					Internal	External			
AGRON 4121	Agricultural Meteorology	CORE	1	2	30	70	50	150	2 (1+1)
PBG 4121	Principles of Plant Breeding	CORE	2	2	30	70	50	150	3(2+1)
PPATH 4121	Plant Pathogens and Principles of Plant Pathology	CORE	3	2	30	70	50	150	4 (3+1)
ENTO 4121	Insect Morphology and Systematics	CORE	2	2	30	70	50	150	3 (2+1)
AGECON 4121	Principles of Agricultural Economics	CORE	2	0	30	70	-	100	2 (2+0)
AENGG 4121	Fundamentals of Soil and Water Conservation Engineering	CORE	1	2	30	70	50	150	2(1+1)
BIOCH 4121	Biochemistry	CORE	2	2	30	70	50	150	3 (2+1)
SCHEM 4121	Soil Chemistry, Soil Fertility and Nutrient Management	CORE	1	2	30	70	50	150	2(1+1)
NSNC-4221	NCC/NSS	GENERIC	-	-	-	-	-	-	-
	TOTAL		14	14				1050	21

*Passing marks will be 40% for individual paper and 50% in a semester aggregate

THIRD SEMESTER

		No. of Teaching			Marks Allocation				
Code	Subject / Paper	Type	L	P	Theory		Practical	Total	Credits
					Internal	External			
AGRON 4211	Field Crops-I (<i>Kharif</i>)	CORE	2	2	30	70	50	150	3 (2+1)
AGRON 4212	Weed Management	CORE	1	2	30	70	50	150	2 (1+1)
NEMAT 4211	Introductory Nematology	CORE	1	2	30	70	50	150	2 (1+1)
STAT 4211	Statistics	CORE	2	2	30	70	50	150	3(2+1)
EXTED 4211	Fundamentals of Rural Sociology and Educational Psychology	CORE	2	0	30	70	-	100	2(2+0)
HORT 4211	Production Technology of Fruits and Plantation Crops	CORE	2	2	30	70	50	150	3(2+1)
AGECON 4211	Production Economics and Farm Management	CORE	1	2	30	70	50	150	2 (1+1)
AENGG 4211	Farm Power and Machinery	CORE	1	2	30	70	50	150	2(1+1)
SCHEM 4211	Manures And Fertilizers	CORE	1	2	30	70	50	150	2 (1+1)
NSNC-4221	NCC/NSS	GENERIC	-	-	-	-	-	-	-
	TOTAL		13	16				1300	21

*Passing marks will be 40% for individual paper and 50% in a semester aggregate

FOURTH SEMESTER

		No. of Teaching			Marks Allocation				Credits
		Type	L	P	Theory		Practical	Total	
Code	Subject / Paper				Internal	External			
AGRON 4221	Field Crops- II (<i>Rabi</i>)	CORE	2	2	30	70	50	150	3 (2+1)
AGRON 4222	Water Management	CORE	1	2	30	70	50	150	2 (1+1)
SCHEM 4221	Soil survey, Land Use Planning and Remote Sensing	CORE	1	2	30	70	50	150	2(1+1)
ENTO 4221	Insect Ecology and Integrated Pest Management including	CORE	2	2	30	70	50	150	3(2+1)
HORT 4221	Production Technology of Vegetables and Flowers	CORE	3	2	30	70	50	150	4(3+1)
AGECON 4221	Agricultural Finance and Co-operation	CORE	1	2	30	70	50	150	2(1+1)
PPHYS 4221	Crop Physiology	CORE	2	2	30	70	50	150	3(2+1)
EXTED 4221	Entrepreneurship Development and Communication Skills	CORE	1	2	30	70	50	150	2(1+1)
NSNC-4221	NCC/NSS	GENERIC	-	2	-	-	50	50	1(0+1)
	TOTAL		13	18				1250	22

*Passing marks will be 40% for individual paper and 50% in a semester aggregate

FIFTH SEMESTER

		No. of Teaching			Marks Allocation				Credits
		Type	L	P	Theory		Practical	Total	
Code	Subject / Paper				Internal	External			
AGRON 4311	Practical Crop Production -1(<i>Kharif</i> crops)	CORE	0	2	-	-	50	50	1 (0+1)
AGRON 4312	Rainfed Farming	CORE	1	2	30	70	50	150	2 (1+1)
BT 4311	Principles of Plant Biotechnology	CORE	2	2	30	70	50	150	3(2+1)
ENTO 4311	Crop and stored grain pests and their management	CORE	3	2	30	70	50	150	4(3+1)
PBG 4311	Breeding of Field and Horticultural Crops	CORE	2	2	30	70	50	150	3(2+1)
AGECON 4311	Agricultural Marketing, trade and Prices	CORE	1	2	30	70	50	150	2(1+1)
AENGG 4311	Protected cultivation and Post harvest Technology	CORE	1	2	30	70	50	150	2(1+1)
PPATH 4311	Diseases of Field Crops and their management	CORE	2	2	30	70	50	150	3(2+1)
HORT 4311	Production technology of Spices, Aromatic and Medicinal crops	CORE	1	2	30	70	50	150	2(1+1)
	TOTAL		13	18				1250	22

*passing marks will be 40% for individual paper and 50% as a semester aggregate

SIXTH SEMESTER

		No. of Teaching			Marks Allocation				Credits
		Type	L	P	Theory		Practical	Total	
Code	Subject / Paper				Internal	External			
AGRON 4321	Practical Crop Production –II (<i>Rabi</i>)	CORE	0	2	-	-	50	50	1 (0+1)
AGRON 4322	Farming Systems, Sustainable Agriculture and Organic	CORE	2	2	30	70	50	150	3 (2+1)
PBG 4321	Principles of Seed Technology	CORE	2	2	30	70	50	150	3(2+1)
EXTED 4321	Extension Methodologies for Transfer of Agricultural	CORE	1	2	30	70	50	150	2(1+1)
LPM 4321	Livestock Production and Management	CORE	2	2	30	70	50	150	3(2+1)
ENVS 4321	Environmental Science	AECC	2	2	30	70	50	150	3(2+1)
HORT 4321	Post harvest management and value addition of fruits and	CORE	2	2	30	70	50	150	3(2+1)
PPATH 4321	Diseases of Horticultural Crops and their management	CORE	1	2	30	70	50	150	2(1+1)
AGECON 4321	Fundamentals of Agri. Business Management	CORE	1	2	30	70	50	150	2(1+1)
	TOTAL		13	18					22

*Passing marks will be 40% for individual paper and 50% in a semester aggregate

SEVENTH SEMESTER

		No. of Teaching			Marks Allocation				Credits
		Type	L	P	Theory		Practical	Total	
Code	Subject / Paper				Internal	External			
GROUP A: CROP PRODUCTION AND ALLIED DISCIPLINES (any six papers are to be opted)									
PBG 4411	Advanced Seed Technology	ELECTIVE	1	4	30	70	50	150	3(1+2)
AGRON 4411	Applied Weed Management	ELECTIVE	1	4	30	70	50	150	3(1+2)
SCHEM 4411	Vermi-composting and Organic farming	ELECTIVE	1	4	30	70	50	150	3(1+2)
SCHEM 4412	Soil, Plant and Water Analysis	ELECTIVE	1	4	30	70	50	150	3(1+2)
SCHEM 4413	Soil Management	ELECTIVE	1	4	30	70	50	150	3(1+2)
LPM 4411	Dairy Cattle Production	ELECTIVE	1	4	30	70	50	150	3(1+2)
PPHYS 4411	Plant Growth regulators in Agriculture	ELECTIVE	1	4	30	70	50	150	3(1+2)
AENGG 4411	Plasticulture in Agriculture	ELECTIVE	1	4	30	70	50	150	3(1+2)
GROUP B: PLANT SCIENCE AND PLANT PROTECTION (any six papers are to be opted)									
PBG 4411	Advanced Seed Technology	ELECTIVE	1	4	30	70	50	150	3(1+2)
PBG 4412	Tissue culture and Micro-propagation techniques	ELECTIVE	1	4	30	70	50	150	3(1+2)
PPATH 4411	Bio-agents and Integrated Disease Management	ELECTIVE	1	4	30	70	50	150	3(1+2)
PPATH 4412	Detection and Management of seed borne pathogens	ELECTIVE	1	4	30	70	50	150	3(1+2)
ENTO 4411	Non –Insect Pests and their management	ELECTIVE	1	4	30	70	50	150	3(1+2)
ENTO 4412	Bio-control agents and Bio-pesticides	ELECTIVE	1	4	30	70	50	150	3(1+2)
PPHYS 4411	Plant Growth regulators in Agriculture	ELECTIVE	1	4	30	70	50	150	3(1+2)
NEMAT 4411	Economic Nematology	ELECTIVE	1	4	30	70	50	150	3(1+2)
GROUP C: HORTICULTURE AND ALLIED SCIENCES (any six papers are to be opted)									
ENTO 4412	Bio-control agents and Bio-pesticides	ELECTIVE	1	4	30	70	50	150	3(1+2)
SCHEM 4411	Vermi-composting and Organic farming	ELECTIVE	1	4	30	70	50	150	3(1+2)
PBG 4412	Tissue culture and Micro-propagation techniques	ELECTIVE	1	4	30	70	50	150	3(1+2)
AENGG 4411	Plasticulture in Agriculture	ELECTIVE	1	4	30	70	50	150	3(1+2)
HORT 4411	Nursery Management of Horticultural Crops	ELECTIVE	1	4	30	70	50	150	3(1+2)
HORT 4412	Commercial Vegetable Production	ELECTIVE	1	4	30	70	50	150	3(1+2)
HORT 4413	Commercial Fruit Production	ELECTIVE	1	4	30	70	50	150	3(1+2)
PPHYS 4411	Plant Growth regulators in Agriculture	ELECTIVE	1	4	30	70	50	150	3(1+2)
GROUP D: SOCIAL SCIENCES (any six papers are to be opted)									
AGECON 4411	Marketing Management	ELECTIVE	2	2	30	70	50	150	3(2+1)
AGECON 4412	Project Formulation, Evaluation and Monitoring	ELECTIVE	1	4	30	70	50	150	3(1+2)
AGECON 4413	Natural Resource Economics and Management	ELECTIVE	2	2	30	70	50	150	3(2+1)
EXTED 4411	Visuals and Graphic Communications	ELECTIVE	1	4	30	70	50	150	3(1+2)
EXTED 4412	Govt. Policies and Priogrammes on Agriculture	ELECTIVE	1	4	30	70	50	150	3(1+2)
STAT 4411	Sampling Techniques	ELECTIVE	1	4	30	70	50	150	3(1+2)
LPM 4411	Dairy Cattle Production	ELECTIVE	1	4	30	70	50	150	3(1+2)
LPM 4412	Poultry Production and Management	ELECTIVE	1	4	30	70	50	150	3(1+2)
		TOTAL	6	24				1200	18

*A student has to opt for six courses of 18 credits out of eight listed in any one of the group.

*Passing marks will be 40% for individual paper and 50% in a semester aggregate

EIGHTH SEMESTER

		No. of Teaching			Marks Allocation				Credits
		Type	L	P	Theory		Practical	Total	
Code	Subject / Paper				Internal	External			
ITK 4420	Research Station/KVK/ including village attachment and In-situ interaction o		0	12	-	-	300	300	6(0+6)
IITK 4421	In-situ interaction of farmers, college faculty and students		0	4	-	-	100	100	2(0+2)
ET 4423	Educational Tour		0	4	-	-	100	100	2(0+2)
PRP 4424	Project Report Preparation and Evaluation		-	-	-	-	-	-	Non Credit
IA 4425	Industrial Attachment*/Skill Development/ Experiential Learning Courses		0	24	-	-	400	400	8(0+8)
TOTAL				44				900	18
GRAND TOTAL									165

- Credit Definition: One credit is defined as one-hour for lecture, 2 hours practical work per week.
- The maximum credits assigned for this programme is 165
- The minimum credit requirement for the graduate degree should be 160 credits excluding non-credit courses for language, physical education/NCC/NSS
- AECC: Ability Enhancement Compulsory Course
- SEC: Skill Enhancement Course
- L:Lecture Hours/Week
- P:Practical Hours/Week