

Semester-wise Course and Credits Allocation

S.No.	Course No.	Course Title	Credit Hours	Total Credit Hours
First Year				
Semester – I				
1	DRM-111*	Deeksharambh(InductioncumFoundationcourse)	2 weeks Non-gradial	21(11+10)
2	SEC-I	Seed Production, Testing, Processing and Certification	2(0+2)	
3	SEC-II	Vermicomposting	2(0+2)	
4	AGRO 101	FundamentalsofAgronomy	3(2+1)	
5	AGRO 102	Farmingbasedlivelihoodsystems (MDC)	3(2+1)	
6	SSAC 121	FundamentalsofSoilScience	3(2+1)	
7	HORT 181	FundamentalsofHorticulture	3(2+1)	
8	AEXT 191	RuralSociologyandEducationalPsychology	2(2+0)	
9	AEXT 192	CommunicationSkills	2(1+1)	
10	NCC/NSS	NationalServiceScheme(NSS-I)/NationalCadetCorps(NCC-I)	1(0+1)	
11	ASTA 101*	Introductorymathematics(needbased)	1(1+0) Non-Gradial	
First Year				
Semester – II				
1	SEC-III	Farm Machinery and Its Implements	2(0+2)	21(10+11)
2	SEC-IV	Horticulture Nursery Management	2(0+2)	
3	LSPM 101	LivestockandPoultryManagement	2(1+1)	
4	AGRO 103	EnvironmentalStudiesandDisasterManagement	3(2+1)	
5	SSAC 122	SoilFertilityManagement	3(2+1)	
6	ENTO 131	FundamentalsofEntomology	3(2+1)	
7	PATH 171	FundamentalsofPlantPathology	3(2+1)	
8	AEXT 193	PersonalityDevelopment	2(1+1)	
9	NCC/NSS	NationalServiceScheme(NSS-II)/NationalCadetCorps(NCC-II)	1(0+1)	

Second Year				
Semester – III				
1	SEC-V	Soil, Plant and Water Analysis	2(0+2)	21(9+12)
2	AGRO 201	CropProductionTechnology-I(<i>Kharif</i> crops)	3(1+2)	
3	AGRO 202	PrinciplesandPracticesofNaturalFarming	2(1+1)	
4	GPBR 211	PrinciplesofGenetics	3(2+1)	
5	AECO 241	EntrepreneurshipDevelopmentandBusinessCommunication	3(2+1)	
6	PATH 271	FundamentalsofNematology	2(1+1)	
7	HORT 281	ProductionTechnologyofFruitandPlantationCrops	2(1+1)	
8	AEXT 291	FundamentalsofExtensionEducation	2(1+1)	
9	COCA 100	PhysicalEducation,FirstAid,YogaPracticesandMeditation	2(0+2)	
Second Year				
Semester – IV				
1	SEC-VI	Artificial Intelligence / Machine learning	2(0+2)	21(11+10)
2	ASTA 201	AgriculturalInformaticsandArtificial Intelligence	3(2+1)	
3	AGRO 203	CropProductionTechnology-II(<i>Rabi</i> Crops)	3(1+2)	
4	AGRO 204	WaterManagement	2(1+1)	
5	GPBR 212	BasicsofPlantBreeding	3(2+1)	
6	SSAC 221	ProblematicSoilsandtheirmanagement	2(1+1)	
7	AECO 242	PrinciplesofAgriculturalEconomicsandFarmManagement	2(2+0)	
8	AENG 251	FarmMachineryandPower	2(1+1)	
9	HORT 282	ProductionTechnologyofVegetablesandSpices	2(1+1)	

Third Year				
Semester – V				
1	AGRO 301	IntroductiontoAgro-meteorology	2(1+1)	22(13+9)
2	AGRO 302	WeedManagement	2(1+1)	
3	AGRO 303	IntroductoryAgroforestry	2(1+1)	
4	GPBR 311	CropImprovement(<i>kharif</i> crops)-I	2(1+1)	
5	ENTO 331	PestmanagementinCropsandStoredGrains	3(2+1)	
6	AECO 341	AgriculturalMarketingandTrade	3(2+1)	
7	CPHY 361	FundamentalsofCropPhysiology	3(2+1)	
8	PATH 371	Diseases ofField &HorticulturalCrops &theirManagement	3(2+1)	
9	HORT 381	OrnamentalCrops,MAPsandLandscaping	2(1+1)	
Third Year				
Semester – VI				
1	ASTA 301	BasicandAppliedAgricultural Statistics	3(2+1)	21(12+9)
2	AGRO 304	Drylandagriculture / Rainfedagricultureandwatershedmanagement	2(1+1)	
3	GPBR 312	FundamentalsofAgriBiotechnology	3(2+1)	
4	GPBR 313	CropImprovement(<i>Rabic</i> crops)-II	2(1+1)	
5	GPBR 314	FundamentalsofSeedScience&Technology	2(1+1)	
6	AECO 342	AgriculturalFinance&Cooperation	2(1+1)	
7	AENG 351	RenewableenergyinAgricultureandAlliedSector	2(1+1)	
8	CPHY 362	EssentialsofPlantBiochemistry	3(2+1)	
9	PATH 372	AgriculturalMicrobiologyandPhyto-remediation	2(1+1)	

Fourth Year				
Semester – VII				
1	ELEC	5 Elective Courses (major or minor)	4(3+1)	20(15+5)
Semester – VIII				
1	Student READY	RAWE/ Industrial Attachment / Experiential Learning/ Hands-on Training/ Project Work/ Internship	--	20
TOTAL				167
		Online Courses	10	10
GRAND TOTAL				167+10*
*Non-Gradual Courses				

S. No.	CODE	Department
1	COCA	Co-Curricular Activities
2	ASTA	Agricultural Statistics
3	LSPM	Livestock Management
4	AGRO	Agronomy
5	GPBR	Genetics and Plant Breeding
6	SSAC	Soil Science
7	ENTO	Entomology
8	AECO	Agricultural Economics
9	AENG	Agricultural Engineering
10	CPHY	Crop Physiology
11	PATH	Plant Pathology
12	HORT	Horticulture
13	AEXT	Agricultural Extension
14	NSS/NCC	National Service Scheme / National Cadet Corps
15	RAWE	Rural Agricultural Work Experience

Type of Courses	Credits
Core courses + Elective Courses	112
Common courses	23
Skill Enhancement Courses (SEC)	12
Internship/ Student READY	20
**MOOCS/SWAYAM	10 Non-Gradual
TOTAL	167+10**

CourseCategory	Course No.	Coursetitle	CreditHours
Induction Cum Foundation Course	DRM 111	<i>Deekshaarambh</i>	2weeks(Non-gradial)
CommonCourses	AGRO 102	Farmingbasedlivelihoodsystems	3(2+1)
	AEXT 192	Communicationskill	2(1+1)
	AEXT 193	Personalitydevelopment	2(1+1)
	AGRO 103	Environmentalstudiesand disastermanagement	3(2+1)
	ASTA 201	AgriculturalInformaticsandArtificialIntelligence	3(2+1)
	AECO 241	Entrepreneurship Development and BusinessManagement	3(2+1)
	AECO 341	AgriculturalMarketing&Trade	3(2+1)
	NSS/NCC	NSS/NCC	2courseseachof 1(0+1)credits
	COCA 100	PhysicalEducation,FirstAidandYogaPractices	2credits
TotalCredits			23

ElectiveCourses(Indicative)			
1	Agri-BusinessManagement	4(3+1)	20*(15+5) 5* ElectiveCourses
2	Managementofnaturalresources	4(3+1)	
3	Agrochemicals	4(3+1)	
4	AgriculturalJournalism	4(3+1)	
5	Landscaping	4(3+1)	
6	CommercialPlantbreeding	4(3+1)	
7	Foodafetyandstandards	4(3+1)	
8	Bio formulationandNanoformulation	4(3+1)	
9	Bio pesticidesandBio fertilizers	4(3+1)	
10	SystemSimulationandAgroadvisory	4(3+1)	
11	Hi-techHorticulture	4(3+1)	
12	Protectedcultivation	4(3+1)	
13	ClimateResilientAgriculture	4(3+1)	
14	BiotechnologyofCropImprovement	4(3+1)	
15	GeoinformaticsandRemoteSensing,precisionfarming	4(3+1)	
16	Micro-propagationTechnologies	4(3+1)	
17	CommercialSeedProduction	4(3+1)	
18	PrinciplesandPracticesofOrganicFarming /ConservationAgriculture	4(3+1)	
19	FoodScienceandNutrition	4(3+1)	
20	Post-HarvestTechnologyandValueAddition	4(3+1)	

Skill Enhancement Courses (SECs)				
1	I	SEC-I	Seed Production, Testing, Processing and Certification	2(0+2)
2	I	SEC-II	Vermicomposting	2(0+2)
3	II	SEC-III	Farm Machinery and Its Implements	2(0+2)
4	II	SEC-IV	Horticulture Nursery Management	2(0+2)
5	III	SEC-V	Soil, Plant and Water Analysis	2(0+2)
6	IV	SEC-VI	Artificial Intelligence / Machine Learning	2(0+2)