

FACULTY OF AGRICULTURAL SCIENCES

Ref. No. - SGTU/FASC/2022-23/141

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Subject: SOE of PhD, 2021-22 and 2022-23.

SOE of PhD as said in subject is enclosed for your consideration.

Submitted for approval please.


DEAN

Encl: SOE of 2021-22 & 2022-23

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Faculty of Agricultural Sciences
SGT University
(Gurgaon Haryana)

FACULTY OF AGRICULTURAL SCIENCES

Name of the Course : Ph.D., w.e.f. 2022-23

in the disciplines/ subjects : Agronomy/Soil Science/Horticulture (Fruit Science)/ Genetics & Plant Breeding

S. No.	Semester	Subject Code	Nomenclature	Theory/ Practical	Core/ AECC/ SEC/ DSE/ GE	L	T	P	Credits	Theory		Theory internal				Practical internal					Total Max Marks	Overall Pass Marks	Whether to be offered under CBCS (Yes/No)	Scheme of Examinations (Theory+Internal+ Practical Internal/ Theory+Internal/ Practical Internal)		
										Max Marks	Attendance	Assignment	Mid Term	Max. Marks	Pass Marks	Demonstration/Presentation	Lab Work	Attendance	Viva Voce	Max Marks					Pass Marks	
	I	Non Credit Compulsory Courses* (offered in M. Sc.)																								
	I	11020129	Library and Information Services	Practical	AECC			1	1								35	35	15	15	100	60	100	60	No	Practical Internal
	I	11020141	Disaster Management (E-course)	Theory	AECC	1			1	70	5	5	20	30	0								100	60	No	Theory+Internal
		11020142	Prarambhik Hindi	Theory	AECC	3			3	70	5	5	20	30	0								100	60	No	Theory+Internal
		Agronomy																								
		Courses of Major Subject																								
	I	11020105	Advances In Weed Management	Theory	DSE	2			2	70	5	5	20	30	0								100	60	Yes	Theory+Internal
	I	11020107	Stress Crop Production	Theory	DSE	2			2	40	5	5	10	20	0								100	60	Yes	Theory+Internal
	I	11020107	Stress Crop Production	Practical				1	1							15	15	5	5	40	24					Practical Internal
		Courses of Minor Subject																								
	I	11020143	Management of Problematic Soils and Waters	Theory	DSE	2			2	40	5	5	10	20									100	60	Yes	Theory+Internal
	I	11020143	Management of Problematic Soils and Waters Practical	Practical	DSE			1	1							15	15	5	5	40	24				Yes	Practical Internal
	I	11020144	Analytical Techniques and Instrumental Methods in Soil and Plant Analysis	Practical	DSE			2	2							35	35	15	15	100	60	100	60	Yes	Practical Internal	
	I	11020145	Soil Fertility And Fertilizer Use	Theory	DSE	3			3	40	5	5	10	20	0								100	60	Yes	Theory+Internal
	I	11020145	Soil Fertility And Fertilizer Use	Practical	DSE			1	1							15	15	5	5	40	24				Yes	Practical Internal
		Courses of Supporting Subject																								
	I	11020146	Principals of Plant Physiology	Theory	DSE	3			3	40	5	5	10	20	0								100	60	Yes	Theory+Internal
	I	11020146	Principals of Plant Physiology Practical	Practical	DSE			1	1							15	15	5	5	40	24				Yes	Practical Internal
		Soil Science																								
		Courses of Major Subject																								
	I	11020114	Soil Genesis And Micropedology	Theory	DSE	2			2	70	5	5	20	30	0								100	60	Yes	Theory+Internal
	I	11020115	Biochemistry Of Soil Organic Matter	Theory	DSE	2			2	70	5	5	20	30	0								100	60	Yes	Theory+Internal
	I	11020116	Land Use Planning And Watershed Management	Theory	DSE	2			2	70	5	5	20	30	0								100	60	Yes	Theory+Internal
	I	11020117	Fertilizer Technology And Management (Service Course)	Theory	DSE	2			2	70	5	5	20	30	0								100	60	Yes	Theory+Internal
		Courses of Minor Subject																								
	I	11020147	Agronomy of Major Cereals and Pulses	Theory	DSE	2			2	40	5	5	10	20	0								100	60	Yes	Theory+Internal
	I	11020147	Agronomy of Major Cereals and Pulses Practical	Practical	DSE			1	1							15	15	5	5	40	24				Yes	Practical Internal
	I	11020148	Agrometeorology & crop Weather Forecasting	Theory	DSE	2			2	40	5	5	10	20	0								100	60	Yes	Theory+Internal
	I	11020148	Agrometeorology & crop Weather Forecasting Practical	Practical	DSE			1	1							15	15	5	5	40	24				Yes	Practical Internal
		Courses of Supporting Subject																								
	I	11020149	Principals of Plant Physiology	Theory	DSE	3			3	40	5	5	10	20	0								100	60	Yes	Theory+Internal
	I	11020149	Principals of Plant Physiology Practical	Practical	DSE			1	1							15	15	5	5	40	24				Yes	Practical Internal
		Horticulture																								
		Courses of Major Subject																								
	I	11020119	Advances In Production Of Fruit Crops	Theory	DSE	2			2	40	5	5	10	20	0								100	60	Yes	Theory+Internal
	I	11020119	Advances In Production Of Fruit Crops	Practical	DSE			1	1							15	15	5	5	40	24					Practical Internal

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I	11020121	Biotic And Abiotic Stress Management In Horticultural Crops	Theory	DSE	2		2	40	5	5	10	20	0						100	60	Yes	Theory+Internal	
I	11020121	Biotic And Abiotic Stress Management In Horticultural Crops	Practical	DSE		1	1							15	15	5	5	40	24			Practical Internal	
I	11020122	Introduction To Bioinformatics	Theory	DSE	2		2	40	5	5	10	20	0						100	60	Yes	Theory+Internal	
I	11020122	Introduction To Bioinformatics	Practical	DSE		1	1							15	15	5	5	40	24			Practical Internal	
		Courses of Minor Subject																					
I	11020150	Production Technology of Under-Exploited Vegetable Crops	Theory	DSE	1		1	40	5	5	10	20	0						100	60	Yes	Theory+Internal	
I	11020150	Production Technology of Under-Exploited Vegetable Crops Practical	Practical	DSE		1	1							15	15	5	5	40	24		Yes	Practical Internal	
		Courses of Supporting Subject																					
I	11020151	Principals of Plant Physiology	Theory	DSE	3		3	40	5	5	10	20	0						100	60	Yes	Theory+Internal	
I	11020151	Principals of Plant Physiology Practical	Practical	DSE		1	1							15	15	5	5	40	24		Yes	Practical Internal	
		Genetics & Plant Breeding																					
		Courses of Major Subject																					
I	11020123	Advanced Genetics	Theory	DSE	2		2	70	5	5	20	30	0						100	60	Yes	Theory+Internal	
I	11020125	Advanced Biometrical and Quantitative Genetics	Theory	DSE	2		2	40	5	5	10	20	0						100	60	Yes	Theory+Internal	
I	11020125	Advanced Biometrical and Quantitative Genetics	Practical	DSE		1	1							15	15	5	5	40	24			Practical Internal	
I	11020127	Plant Genetic Resources and Pre- Breeding	Theory	DSE	2		2	70	5	5	20	30	0						100	60	Yes	Theory+Internal	
I	11020139	Crop-Evolution	Theory	DSE	2		2	70	5	5	20	30	0						100	60	Yes	Theory+Internal	
I	11020131	Advances in Breeding of Major Field Crops	Theory	DSE	3		3	70	5	5	20	30	0						100	60	Yes	Theory+Internal	
I	11020133	Microbial Genetics	Theory	DSE	2		2	40	5	5	10	20	0						100	60	Yes	Theory+Internal	
I	11020133	Microbial Genetics	Practical	DSE		1	1							15	15	5	5	40	24			Practical Internal	
		Courses of Minor Subject																					
I	11020135	Principles of biotechnology	Theory	DSE	2		2	40	5	5	10	20	0						100	60	Yes	Theory+Internal	
I	11020135	Principles of biotechnology	Practical	DSE		1	1							15	15	5	5	40	24		Yes	Practical Internal	
I	11020137	Introduction to bioinformatics	Theory	DSE	2		2	70	5	5	20	30	0						100	60	Yes	Theory+Internal	
I	11020140	Biosafety, IPR and bioethics	Theory	DSE	2		2	70	5	5	20	30	0						100	60	Yes	Theory+Internal	
		Courses of Supporting Subject																					
I	11020152	Principals of Plant Physiology	Theory	DSE	3		3	40	5	5	10	20	0						100	60	Yes	Theory+Internal	
I	11020152	Principals of Plant Physiology Practical	Practical	DSE		1	1							15	15	5	5	40	24		Yes	Practical Internal	
II		Non Credit Compulsory Courses* (offered in M. Sc.)																					
II	11020153	Technical Writing and Communications Skills	Practical	AECC		1	1							35	35	15	15	100	60	100	60	No	Practical Internal
II	11020154	Intellectual Property & its Management in Agriculture (E-course)	Theory	AECC	1		1	70	5	5	20	30	0						100	60	No	Theory+Internal	
		Agronomy																					
		Courses of Major Subject																					
II	11020101	Current Trends In Agronomy	Theory	DSE	3		3	70	5	5	20	30	0						100	60	Yes	Theory+Internal	
II	11020102	Crop Ecology	Theory	DSE	2		2	70	5	5	20	30	0						100	60	Yes	Theory+Internal	
II	11020103	Advances In Crop Growth And Productivity	Theory	DSE	2		2	40	5	5	10	20	0						100	60	Yes	Theory+Internal	
II	11020103	Advances In Crop Growth And Productivity - Practical	Practical	DSE	0	1	1							15	15	5	5	40	24			Practical Internal	
II	11020104	Irrigation Management	Theory	DSE	2		2	70	5	5	20	30	0						100	60	Yes	Theory+Internal	
II	11020106	Integrated Farming Systems For Sustainable Agriculture	Theory	DSE	2		2	70	5	5	20	30	0						100	60	Yes	Theory+Internal	
		Courses of Minor Subject																					
II	11020155	Soil, Water and Air Pollution	Theory	DSE	2		2	40	5	5	10	20	0						100	60	Yes	Theory+Internal	
II	11020155	Soil, Water and Air Pollution	Practical	DSE		1	1							15	15	5	5	40	24		Yes	Practical Internal	
II	11020156	Land Degradation and Restoration	Theory	DSE	1		1	70	5	5	20	30	0						100	60	Yes	Theory+Internal	
		Courses of Supporting Subject																					
II	11020157	Experimental Designs	Theory	DSE	2		2	40	5	5	10	20	0						100	60	Yes	Theory+Internal	
II	11020157	Experimental Designs Practical	Practical	DSE		1	1							15	15	5	5	40	24		Yes	Practical Internal	
II	11020158	Physiology of Crop Plants - I	Theory	DSE	2		2	70	5	5	20	30	0						100	60	Yes	Theory+Internal	
		SOIL SCIENCE																					
		Courses of Major Subject																					
II	11020111	Advances in Soil Physics	Theory	DSE	3		3	70	5	5	20	30	0						100	60	Yes	Theory+Internal	
II	11020112	Advances in Soil Fertility	Theory	DSE	3		3	70	5	5	20	30	0						100	60	Yes	Theory+Internal	

II	11020113	Physical Chemistry of Soils	Theory	DSE	2		2	70	5	5	20	30	0					100	60	Yes	Theory+Internal
		Courses of Minor Subject																			
II	11020159	Principles and Practices of Water Management	Theory	DSE	2		2	40	5	5	10	20	0					100	60	Yes	Theory+Internal
II	11020159	Principles and Practices of Water Management Practical	Practical	DSE		I	1							15	15	5	5	40	24	Yes	Practical Internal
II	11020160	Cropping System	Theory	DSE	2		2	70	5	5	20	30	0					100	60	Yes	Theory+Internal
		Courses of Supporting Subject																			
II	11020161	Experimental Designs	Theory	DSE	2		2	40	5	5	10	20	0					100	60	Yes	Theory+Internal
II	11020161	Experimental Designs Practical	Practical	DSE		I	1							15	15	5	5	40	24	Yes	Practical Internal
II	11020162	Physiology of Crop Plants - I	Theory	DSE	2		2	70	5	5	20	30	0					100	60	Yes	Theory+Internal
		Horticulture																			
		Courses of Major Subject																			
II	11020118	Advances In Breeding Of Fruit Crops	Theory	DSE	2		2	40	5	5	10	20	0					100	60	Yes	Theory+Internal
II	11020118	Advances In Breeding Of Fruit Crops	Practical	DSE		I	1							15	15	5	5	40	24		Practical Internal
II	11020120	Advances In Growth Regulation Of Fruit Crops	Theory	DSE	2		2	40	5	5	10	20	0					100	60	Yes	Theory+Internal
II	11020120	Advances In Growth Regulation Of Fruit Crops	Practical	DSE		I	1							15	15	5	5	40	24		Practical Internal
		Courses of Minor Subject																			
II	11020163	Growth and Development of Vegetable Crops	Theory	DSE	2		2	40	5	5	10	20	0					100	60	Yes	Theory+Internal
II	11020163	Growth and Development of Vegetable Crops Practical	Practical	DSE		I	1							15	15	5	5	40	24	Yes	Practical Internal
		Courses of Supporting Subject																			
II	11020164	Experimental Designs	Theory	DSE	2		2	40	5	5	10	20	0					100	60	Yes	Theory+Internal
II	11020164	Experimental Designs Practical	Practical	DSE		I	1							15	15	5	5	40	24	Yes	Practical Internal
II	11020165	Physiology of Crop Plants - I	Theory	DSE	2		2	70	5	5	20	30	0					100	60	Yes	Theory+Internal
		Genetics & Plant Breeding																			
		Courses of Major Subject																			
II	11020124	Cellular And Chromosomal Manipulations For Crop Breeding	Theory	DSE	2		2	70	5	5	20	30	0					100	60	Yes	Theory+Internal
II	11020126	Genomics In Plant Breeding	Theory	DSE	2		2	40	5	5	10	20	0					100	60	Yes	Theory+Internal
II	11020126	Genomics In Plant Breeding	Practical	DSE		I	1							15	15	5	5	40	24		Practical Internal
II	11020128	Advances In Plant Breeding Systems	Theory	DSE	2		2	70	5	5	20	30	0					100	60	Yes	Theory+Internal
II	11200130	Breeding Designer Crops	Theory	DSE	2		2	40	5	5	10	20	0					100	60	Yes	Theory+Internal
II	11200130	Breeding Designer Crops	Practical	DSE		I	1							15	15	5	5	40	24		Practical Internal
II	11020132	In Situ And Ex Situ Conservation Of Germplasm	Theory	DSE	2		2	40	5	5	10	20	0					100	60	Yes	Theory+Internal
II	11020132	In Situ And Ex Situ Conservation Of Germplasm	Practical	DSE		I	1							15	15	5	5	40	24		Practical Internal
II	11020134	Advances In Breeding Of Medicinal And Aromatic Crops	Theory	DSE	2		2	40	5	5	10	20	0					100	60	Yes	Theory+Internal
II	11020134	Advances In Breeding Of Medicinal And Aromatic Crops	Practical	DSE	2	I	1							15	15	5	5	40	24		Practical Internal
		Courses of Minor Subject																			
II	11020136	Fundamentals of molecular biology	Theory	DSE	3		3	70	5	5	20	30	0					100	60	Yes	Theory+Internal
II	11020138	Plant Tissue culture and genetic transformation	Theory	DSE	2		2	40	5	5	10	20	0					100	60	Yes	Theory+Internal
II	11020138	Plant Tissue culture and genetic transformation	Practical	DSE		I	1							15	15	5	5	40	24	Yes	Practical Internal
II	11020178	Molecular Breeding	Theory	DSE	2		2	70	5	5	20	30	0					100	60	Yes	Theory+Internal
		Courses of Supporting Subject																			
II	11020166	Experimental Designs	Theory	DSE	2		2	40	5	5	10	20	0					100	60	Yes	Theory+Internal
II	11020166	Experimental Designs Practical	Practical	DSE		I	1							15	15	5	5	40	24	Yes	Practical Internal
II	11020167	Physiology of Crop Plants - I	Theory	DSE	2		2	70	5	5	20	30	0					100	60	Yes	Theory+Internal
		Non Credit Compulsory Courses* (offered in M. Sc.)																			
III	11020168	Agricultural Research, Research Ethics & Rural Development Programmes (E-course)	Theory	AECC	1		1	70	5	5	20	30	0					100	60	No	Theory+Internal
		Agronomy																			
		Courses of Major Subject																			
III	11020169	Comprehensive Examination***	Theory	Core				100										100	60	No	Theory
III	11020108	Doctoral Seminar I	Theory	Core	1		1	100										100	60	No	Theory+Internal
III	11020109	Doctoral Seminar II	Theory	Core	1		1	100										100	60	No	Theory+Internal
III	11020110	Doctoral Research**	Practical	Core																No	

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II	110320161	Experimental Designs Practical	Practical	Core			1	1							15	15	5	5	40	24			Practical Internal
II	11020162	Physiology of Crop Plants - I	Theory	DSE	2			2	70	5	5	20	30	12							100	60	Theory+Internal
Horticulture																							
Courses of Major Subject																							
II	11020118	Advances In Breeding of Fruit Crops	Theory	DSE	2			2	40	5	5	10	20	8							100	60	Theory+Internal
II	11020118	Advances In Breeding of Fruit Crops	Practical	DSE			1	1							15	15	5	5	40	24			Practical Internal
II	11020120	Advances In Growth Regulation of Fruit Crops	Theory	DSE	2			2	40	5	5	10	20	8							100	60	Theory+Internal
II	11020120	Advances In Growth Regulation of Fruit Crops	Practical	DSE			1	1							15	15	5	5	40	24			Practical Internal
Courses of Minor Subject																							
II	11020163	Growth and Development of Vegetable Crops	Theory	DSE	2			2	40	5	5	10	20	8							100	60	Theory+Internal
II	11020163	Growth and Development of Vegetable Crops Practical	Practical	DSE			1	1							15	15	5	5	40	24			Practical Internal
Courses of Supporting Subject																							
II	11020164	Experimental Designs	Theory	Core	2			2	40	5	5	10	20	8							100	60	Theory+Internal
II	11020164	Experimental Designs Practical	Practical	Core			1	1							15	15	5	5	40	24			Practical Internal
II	11020165	Physiology of Crop Plants - I	Theory	DSE	2			2	70	5	5	20	30	12							100	60	Theory+Internal
Genetics & Plant Breeding																							
Courses of Major Subject																							
II	11020124	Cellular And Chromosomal Manipulations For Crop Breeding	Theory	DSE	2			2	70	5	5	20	30	12							100	60	Theory+Internal
II	11020126	Genomics In Plant Breeding	Theory	DSE	2			2	40	5	5	10	20	8							100	60	Theory+Internal
II	11020126	Genomics In Plant Breeding	Practical	DSE			1	1							15	15	5	5	40	24			Practical Internal
II	11020128	Advances In Plant Breeding Systems	Theory	DSE	2			2	70	5	5	20	30	12							100	60	Theory+Internal
II	11020130	Breeding Designer Crops	Theory	DSE	2			2	40	5	5	10	20	8							100	60	Theory+Internal
II	11020130	Breeding Designer Crops	Practical	DSE			1	1							15	15	5	5	40	24			Practical Internal
II	11020132	In Situ And Ex Situ Conservation Of Germplasm	Theory	DSE	2			2	40	5	5	10	20	8							100	60	Theory+Internal
II	11020132	In Situ And Ex Situ Conservation Of Germplasm	Practical	DSE			1	1							15	15	5	5	40	24			Practical Internal
II	11020134	Advances In Breeding Of Medicinal And Aromatic Crops	Theory	DSE	2			2	40	5	5	10	20	8							100	60	Theory+Internal
II	11020134	Advances In Breeding Of Medicinal And Aromatic Crops	Practical	DSE	2			1	1						15	15	5	5	40	24			Practical Internal
Courses of Minor Subject																							
II	11020136	Fundamentals of molecular biology	Theory	DSE	3			3	70	5	5	20	30	12							100	60	Theory+Internal
II	11020138	Plant Tissue culture and genetic transformation	Theory	DSE	2			2	40	5	5	10	20	8							100	60	Theory+Internal
II	11020138	Plant Tissue culture and genetic transformation	Practical	DSE			1	1							15	15	5	5	40	24			Practical Internal
II	11020178	Molecular Breeding	Theory	DSE	2			2	70	5	5	20	30	12							100	60	Theory+Internal
Courses of Supporting Subject																							
II	11020166	Experimental Designs	Theory	DSE	2			2	40	5	5	10	20	8							100	60	Theory+Internal
II	11020166	Experimental Designs Practical	Practical	DSE			1	1							15	15	5	5	40	24			Practical Internal
II	11020167	Physiology of Crop Plants - I	Theory	DSE	2			2	70	5	5	20	30	12							100	60	Theory+Internal
III Non Credit Compulsory Courses* (offered in M. Sc.)																							
III	11020168	Agricultural Research, Research Ethics & Rural Development Programmes (E-course)	Theory	AECC	1			1	70	5	5	20	30	12							100	60	Theory+Internal
III Agronomy																							
Courses of Major Subject																							
III	11020169	Comprehensive Examination***	Theory	Core					100												100	60	Theory
III	11020108	Doctoral Seminar I	Theory	Core	1			1	100												100	60	Theory+Internal
III	11020109	Doctoral Seminar II	Theory	Core	1			1	100												100	60	Theory+Internal
III	11020110	Doctoral Research**	Practical	Core																			
Courses of Supporting Subject																							
III	11020170	Sampling Techniques	Theory	DSE	2			2	40	5	5	10	20	8							100	60	Theory+Internal
III	11020170	Sampling Techniques Practical	Practical	DSE			1	1							15	15	5	5	40	24			Practical Internal
III	11020171	Physiology of Crop Plants - II	Theory	DSE	2			2	70	5	5	20	30	12							100	60	Theory+Internal
Soil Science																							
Courses of Major Subject																							
III	11020169	Comprehensive Examination***	Theory	Core					100												100	60	Theory
III	11020108	Doctoral Seminar I	Theory	Core	1			1	100												100	60	Theory+Internal
III	11020109	Doctoral Seminar II	Theory	Core	1			1	100												100	60	Theory+Internal
III	11020110	Doctoral Research**	Practical	Core																			
Courses of Supporting Subject																							

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III	11020170	Sampling Techniques	Theory	DSE	2		2	40	5	5	10	20	8							100	60	Theory+Internal
III	11020170	Sampling Techniques Practical	Practical	DSE		1	1							15	15	5	5	40	24		60	Practical Internal
III	11020171	Physiology of Crop Plants - II	Theory	DSE	2		2	70	5	5	20	30	12							100	60	Theory+Internal
Horticulture																						
Courses of Major Subject																						
III	11020169	Comprehensive Examination***	Theory	Core				100												100	60	Theory
III	11020108	Doctoral Seminar I	Theory	Core	1		1	100												100	60	Theory+Internal
III	11020109	Doctoral Seminar II	Theory	Core	1		1	100												100	60	Theory+Internal
III	11020110	Doctoral Research**	Practical	Core																		
Courses of Minor Subject																						
III	11020172	Organic Vegetable Production Technology	Theory	DSE	2		2	40	5	5	10	20	8							100	60	Theory+Internal
III	11020172	Organic Vegetable Production Technology	Practical	DSE		1	1							15	15	5	5	40	24		60	Practical Internal
III	11020173	Fundamentals of Processing of Vegetables	Theory	DSE	1		1	40	5	5	10	20	8							100	60	Theory+Internal
III	11020173	Fundamentals of Processing of Vegetables Practical	Practical	DSE		1	1							15	15	5	5	40	24		60	Practical Internal
Courses of Supporting Subject																						
III	11020170	Sampling Techniques	Theory	DSE	2		2	40	5	5	10	20	8							100	60	Theory+Internal
III	11020170	Sampling Techniques Practical	Practical	DSE		1	1							15	15	5	5	40	24		60	Practical Internal
III	11020171	Physiology of Crop Plants - II	Theory	DSE	2		2	70	5	5	20	30	12							100	60	Theory+Internal
Genetics & Plant Breeding																						
Courses of Major Subject																						
III		Comprehensive Examination***	Theory	Core				100												100	60	Theory
III	11020108	Doctoral Seminar I	Theory	Core	1		1	100												100	60	Theory+Internal
III	11020109	Doctoral Seminar II	Theory	Core	1		1	100												100	60	Theory+Internal
III	11020110	Doctoral Research**	Practical	Core																		
Courses of Supporting Subject																						
III	11020170	Sampling Techniques	Theory	DSE	2		2	40	5	5	10	20	8							100	60	Theory+Internal
III	11020170	Sampling Techniques Practical	Practical	DSE		1	1							15	15	5	5	40	24		60	Practical Internal
III	11020171	Physiology of Crop Plants - II	Theory	DSE	2		2	70	5	5	20	30	12							100	60	Theory+Internal
IV Agronomy																						
Courses of Major Subject																						
IV	11020108	Doctoral Seminar I	Theory	Core	1		1	100												100	60	Theory+Internal
IV	11020109	Doctoral Seminar II	Theory	Core	1		1	100												100	60	Theory+Internal
IV	11020110	Doctoral Research**	Practical	Core																		
Courses of Minor Subject																						
IV	11020174	Fertilizer Technology	Theory	DSE	1		1	70	5	5	20	30	12							100	60	Theory+Internal
IV	11020175	Soil Erosion and Conservation	Theory	DSE	2		2	40	5	5	10	20	8							100	60	Theory+Internal
IV	11020175	Soil Erosion and Conservation - Practical	Practical	DSE		1	1							15	15	5	5	40	24		60	Practical Internal
Horticulture																						
Courses of Major Subject																						
IV	11020108	Doctoral Seminar I	Theory	Core	1		1	100												100	60	Theory+Internal
IV	11020109	Doctoral Seminar II	Theory	Core	1		1	100												100	60	Theory+Internal
IV	11020110	Doctoral Research**	Practical	Core																		
Courses of Minor Subject																						
IV	11020176	Seed Production Technology of Vegetable Crops	Theory	DSE	2		2	40	5	5	10	20	8							100	60	Theory+Internal
IV	11020176	Seed Production Technology of Vegetable Crops Practical	Practical	DSE		1	1							15	15	5	5	40	24		60	Practical Internal
Soil Science																						
Courses of Major Subject																						
IV	11020108	Doctoral Seminar I	Theory	Core	1		1	100												100	60	Theory+Internal
IV	11020109	Doctoral Seminar II	Theory	Core	1		1	100												100	60	Theory+Internal
IV	11020110	Doctoral Research**	Practical	Core																		
Genetics & Plant Breeding																						
Courses of Major Subject																						
IV	11020108	Doctoral Seminar I	Theory	Core	1		1	100												100	60	Theory+Internal
IV	11020109	Doctoral Seminar II	Theory	Core	1		1	100												100	60	Theory+Internal
IV	11020110	Doctoral Research**	Practical	Core																		

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