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19/09/25

SGT UNIVERSITY
Shree Guru Gobind Singh Tricentenary University

NAAC A+

Faculty of Agricultural Sciences

Ref: SGTU/FASC/2025-26/.1001

Date: 19/09/2025

Subject: Request for Final Approval of Ph.D. Horticulture – Fruit Science Scheme of Examination (SOE) for 2024–25

The final **Scheme of Examination (SOE)** for the Ph.D. Horticulture – Fruit Science program for the academic session **2024–25** for your kind perusal and approval.

Thank you for your kind consideration.

for 19.09.25

Dean, FASC

Forwarded to Advisor, Academics, FASC

19.09.25

Dean
Faculty of Agricultural Sciences
SGT University
Gurugram, Haryana.

Approved for uploading on ERP

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19/9/2025

Registrar
SGT University
Budhera, Gurugram

DEAN (OSGRI)

FACULTY OF AGRICULTURAL SCIENCES

Name of the Course: Ph.D., w.e.f. 2024-25, December Batch

In the discilplines/ Subjects: Horticulture- Fruit Science

S.No.	Semester/Year	ICAR Code	SGTU Code	Nomenclature	Theory/ Practical	Core/ AEC/ SEC/ DSE/ GE	Theory and Practical (Result Seperately or Combined	L	T	P	Credits	Theory		Theory internal					Practical internal						Total Max Marks	Overall Pass Marks	Scheme of Examinations (Theory+Internal/ Practical+Internal)
												Max Marks	Pass Marks	Attendance	Assignment	Mid Term	Max. Marks	Pass Marks	Demonstration/ Presentation	Lab. Work	Attendance	Viva Voce	Max Marks	Pass Marks			
			Courses of Major subject																								
1	I/I	FSC 601*	11100101	Innovative Approaches in Fruit Breeding	Theory	Core	Seperately	3	0	0	3	50	20		20	30	50	20							100	60	Theory+Internal
2	I/I	FSC 602*	11100102	Modern Trends in Fruit Production	Theory	Core	Seperately	3	0	0	3	50	20		20	30	50	20							100	60	Theory+Internal
3	I/I	FSC 603	11100103	Recent Developments in Growth Regulation	Theory	DSE	Seperately	3	0	0	3	50	20		20	30	50	20							100	60	Theory+Internal
4	I/I	FSC 604	11100104	Advanced Laboratory Techniques	Theory	DSE	Combined	1	0	0	1	20	8		5	5	10	4							100	60	Theory+Internal+ Practical Internal
5	I/I	FSC 604	11100105	Advanced Laboratory Techniques Practical	Practical	DSE		0	0	4	2								20	40		10	70	28			
6	I/I	FSC 605	11100106	Arid and Dry Land Fruit Production	Theory	DSE	Seperately	2	0	0	2	50	20		20	30	50	20							100	60	Theory+Internal
			Courses of Minor subject																								
1	I/I	VSC 502	11100107	Production of Warm Season Vegetable Crops	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
2	I/I	VSC 502	11100108	Production of Warm Season Vegetable Crops Practical	Practical	DSE		0	0	2	1								10	15	_	5	30	12			
3	I/I	VSC 508	11100109	Seed Production of Vegetable Crops	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
4	I/I	VSC 508	11100110	Seed Production of Vegetable Crops Practical	Practical	DSE		0	0	2	1								10	15	_	5	30	12			
5	I/I	VSC 509	11100111	Production of Underutilized Vegetable Crops	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
6	I/I	VSC 509	11100112	Production of Underutilized Vegetable Crops Practical	Practical	DSE		0	0	2	1								10	15	_	5	30	12			
7	I/I	PHM 501	11100113	Postharvest Management of Horticultural Produce	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
8	I/I	PHM 501	11100114	Postharvest Management of Horticultural Produce Practical	Practical	DSE		0	0	2	1								10	15	_	5	30	12			
9	I/I	PHM 502	11100115	Postharvest Physiology and Biochemistry of Perishables	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
10	I/I	PHM 502	11100116	Postharvest Physiology and Biochemistry of Perishables Practical	Practical	DSE		0	0	2	1								10	15	_	5	30	12			
11	I/I	PHM 503	11100117	Packaging and Storage of Fresh Horticultural Produce	Theory	DSE	Combined	1	0	0	1	40	16		5	5	10	4							100	60	Theory+Internal+ Practical Internal
12	I/I	PHM 503	11100118	Packaging and Storage of Fresh Horticultural Produce Practical	Practical	DSE		0	0	2	1								20	25		5	50	20			
13	I/I	PHM 504	11100119	Packaging and Storage of Processed Horticultural Produce	Theory	DSE	Combined	1	0	0	1	40	16		5	5	10	4							100	60	Theory+Internal+ Practical Internal
14	I/I	PHM 504	11100120	Packaging and Storage of Processed Horticultural Produce Practical	Practical	DSE		0	0	2	1								20	25		5	50	20			
			Courses of Major subject																								
1	II/I	FSC 606	11100201	Abiotic Stress Management in Fruit Crops	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
2	II/I	FSC 606	11100202	Abiotic Stress Management in Fruit Crops Practical	Practical	DSE		0	0	2	1								10	15	_	5	30	12			
3	II/I	FSC 607	11100203	Biodiversity and Conservation of Fruit Crops	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
4	II/I	FSC 607	11100204	Biodiversity and Conservation of Fruit Crops Practical	Practical	DSE		0	0	2	1								10	15	_	5	30	12			
5	II/I	FSC 608	11100205	Smart Fruit Production	Theory	DSE	Seperately	2	0	0	2	50	20		20	30	50	20							100	60	Theory+Internal
			Dóctoral Seminar																								

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1	II/I	FSC 691	11100206	Doctoral Seminar	Theory	Core	Seperately	1	0	0	1													100	60	Theory
			Courses of Minor subject																							
1	II/I	VSC 501	11100207	Production of Cool Season Vegetable Crops	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
2	II/I	VSC 501	11100208	Production of Cool Season Vegetable Crops Practical	Practical	DSE		0	0	2	1								10	15	_	5	30	12			
3	II/I	VSC 504	11100209	Principles of Vegetable Breeding	Theory	DSE	Seperately	3	0	0	3	50	20		20	30	50	20							100	60	Theory+Internal
4	II/I	VSC 510	11100210	Systematics of Vegetable Crops	Theory	DSE	Combined	1	0	0	1	40	16		5	5	10	4							100	60	Theory+Internal+ Practical Internal
5	II/I	VSC 510	11100211	Systematics of Vegetable Crops Practical	Practical	DSE		0	0	2	1								20	25		5	50	20			
6	II/I	VSC 512	11100212	Production of Spice Crops	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
7	II/I	VSC 512	11100213	Production of Spice Crops Practical	Practical	DSE		0	0	2	1								10	15	_	5	30	12			
8	II/I	PHM 505	11100214	Principles and Methods of Fruit And Vegetable Preservation	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
9	II/I	PHM 505	11100215	Principles and Methods of Fruit And Vegetable Preservation Practical	Practical	DSE		0	0	2	1								10	15	_	5	30	12			
10	II/I	PHM 506	11100216	Laboratory Techniques in Postharvest Management	Theory	DSE	Combined	1	0	0	1	20	8		5	5	10	4							100	60	Theory+Internal+ Practical Internal
11	II/I	PHM 506	11100217	Laboratory Techniques in Postharvest Management	Practical	DSE		0	0	4	2								20	40		10	70	28			
12	II/I	PHM 508	11100218	Quality Assurance, Safety and Sensory Evaluation of Fresh and Processed Horticultural Produce	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
13	II/I	PHM 508	11100219	Quality Assurance, Safety and Sensory Evaluation of Fresh and Processed Horticultural Produce	Practical	DSE		0	0	2	1								10	15	_	5	30	12			
			Courses of Supporting subject																							
1	II/I	STAT 501	11100210	Mathematics for Applied Sciences	Theory	DSE	Seperately	2	0	0	2	50	20		20	30	50	20							100	60	Theory+Internal
2	II/I	STAT 502	11100211	Satistical Methods for Applied Sciences	Theory	DSE	Combined	3	0	0	3																
3	II/I	STAT 502	11100212	Satistical Methods for Applied Sciences Practical	Practical	DSE		0	0	2	1																
4	II/I	STAT 511	11100213	Experimental Designs	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
5	II/I	STAT 511	11100214	Experimental Designs Practical	Practical	DSE		0	0	2	1								10	15	_	5	30	12			
			Doctoral Seminar																							
1	III/II	FSC 692	11100301	Doctroal Seminar	Theory	Core	Seperately	1	0	0	1													100	60	Theory
			Courses of Supporting subject																							
1	III/II	STAT 512	11100302	Basic sampling Techniques	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
2	III/II	STAT 512	11100303	Basic sampling Techniques Practical	Practical	DSE		0	0	2	1								10	15		5	30	12			
3	III/II	STAT 521	11100304	Applied Regression Analysis	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
4	III/II	STAT 521	11100305	Applied Regression Analysis Practical	Practical	DSE		0	0	2	1								10	15		5	30	12			
5	III/II	STAT 522	11100306	Data Analysis Using Statistical Packages	Theory	DSE	Combined	2	0	0	2	40	16		10	20	30	12							100	60	Theory+Internal+ Practical Internal
6	III/II	STAT 522	11100307	Data Analysis Using Statistical Packages Practical	Practical	DSE		0	0	2	1								10	15		5	30	12			
			Courses of Minor subject																							
1	III/II	VSC 507	11100308	Protected Cultivation of Vegetable Crops	Theory	DSE	Combined	1	0	0	1	40	16		5	5	10	4							100	60	Theory+Internal+ Practical Internal
2	III/II	VSC 507	11100309	Protected Cultivation of Vegetable Crops Practical	Practical	DSE		0	0	2	1								40	50	_	10	50	20			
3	III/II	VSC 511	11100310	Organic Vegetable Production	Theory	DSE	Combined	1	0	0	1	40	16		5	5	10	4							100	60	Theory+Internal+ Practical Internal
4	III/II	VSC 511	11100311	Organic Vegetable Production Practical	Practical	DSE		0	0	2	1								40	50	_	10	50	20			
5	III/II	VSC 513	11100312	Processing of Vegetable	Theory	DSE	Combined	1	0	0	1	40	16		5	5	10	4							100	60	Theory+Internal+ Practical Internal
6	III/II	VSC 513	11100313	Processing of Vegetable Practical	Practical	DSE		0	0	2	1								40	50	_	10	50	20			
7	III/II	VSC 514	11100314	Postharvest Management of Vegetable Crops	Theory	DSE		2	0	0	2	40	16		10	20	30	12									Theory+Internal+

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8	III/II	VSC 514	11100315	Postharvest Management of Vegetable Crops Practical	Practical	DSE	Combined	0	0	2	1										10	15		5	30	12	100	60	Practical Internal
9	III/II	PHM 509	11100316	Functional Foods from Horticultural Produce	Theory	DSE	Seperately	2	0	0	2	50	20		20	30	50	20								100	60	Theory+Internal
10	III/II	PHM 510	11100317	Marketing and Entrepreneurship in Postharvest Horticulture	Theory	DSE	Combined	1	0	0	1	40	16		5	5	10	4								100	60	Theory+Internal+ Practical Internal
11	III/II	PHM 510	11100318	Marketing and Entrepreneurship in Postharvest Horticulture Practical	Practical	DSE		0	0	2	1								40	50	_	10	50	20			
			Research																												
1	III/II	FSC 699	11100319	Doctoral Research**	Practical	Core	Combined	_	_	30	15												100	60	100	60	Practical Internal
			Research																												
1	IV/II	FSC 699	11160401	Doctoral Research**	Practical	Core	Combined			40	20												100	60	100	60	Practical Internal
			Research																												
1	V/III	FSC 699	11160501	Doctoral Research**	Practical	Core	Combined			40	20												100	60	100	60	Practical Internal
			Research/Thesis																												
1	VI/III	FSC 699	11160601	Doctoral Research**	Practical	Core	Combined			40	20												100	60	100	60	Practical Internal
				Thesis Writing and Submission																											

*Compulsory major courses

**Minimum 75 credit hours for degree course (indicate satisfactory, "S" ≥ 60% marks and unsatisfactory, "US" < 60% marks)

Note:

1. A student has to take a minimum of 12 credits of Major subject, 6 credits of Minor subject, 5 credits of Supporting subject, 2 credit of seminar, and 75 credits of research with a minimum total of 100 credits in the degree program.
2. Thesis submission/report writing and viva-voce thereafter is compulsory for all students to secure satisfactory performance.
3. Courses of odd semesters can be taken in either I or III semester and vice versa. Similarly, courses of even semesters can be taken in either II or IV semester and vice versa.
4. No provision of internal marks revision if a students secure 40 or above marks
5. Number of chances for reappear: As per the University rules
6. Promotion critaria: As per the latest rules of promotions of the University
7. Grading System
   - i) Scale : 10 Point
   - ii) Minimum Passing Grade in the course : 6.00
   - iii) Minimum OGPA to continue and to obtain degree : 6.50

EKP

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