1. Agricultural Eco M.Sc. Ag. (Agricult Core Courses (15 c	tural Economics)	
AEC 500	Micro Economic Theory and Applications	3(3-2-0)
AEC 501	Macro Economic Theory and Policy	3(3-2-0)
AEC 510	Elementary Econometrics	2(1-1-1)
AEC 515	Linear Programming Methods	2(1-1-1)
AEC 620	Agricultural Marketing and Price Analysis	2(1-1-1)
AEC 640	Agricultural Production Economics	2(1-1-1)
AEC 600	C	1
	Sub Total	15
Basic Supporting C	Courses (6 credits)	
BPM 501		3
BPS 561		3
	Sub Total	6
Optional/ Minor Co	ourses (9 credits)	9
Thesis Research (20		
	Master's Thesis Research	20
	Total	50
Ph.D. (Agricultural		
Core Courses (12 c		
AEC 700	•	2(2-2-0)
AEC 701	•	2(2-2-0)
AEC 710		3(2-0-1)
AEC 715	Operations Research for Agricultural Decisions	3(2-0-1)
AEC 788		1
AEC 789	Doctoral Seminar-II	1
	Total	12
Basic Supporting C		
BPS 577	Multivariate Analysis and Official Statistics	3(2-0-1)
Optional Courses (5
Minor Courses (10	credits)	10
Thesis Research (45)		
AEC 790	Ph.D. Thesis Research	45
	Total	75
Compulsory Cours	es for Minor for Other Discipline	
AEC 500	Micro Economic Theory and Applications	3
AEC 640	Agricultural Production Economics	2
11LC 010	1.5.1.ca.tatat i rodaction Decitorines	_

AEC-411	Economic Theory	3(2-0-1)
AEC-412	Agricultural Economics	3(2-0-1)
AEC-435	Farm Management Analysis	3(2-0-1)
AEC-500	Micro Economic Theory and Applications	3(3-2-0)
AEC-501	Macro Economic Theory and Policy	3(3-2-0)
AEC-510	Elementary Econometrics	2(1-1-1)
AEC-515	Linear Programming Methods	2(1-1-1)
AFS-526	Food Chemistry and Nutrition	3(3-0-0)
AFS-531	Food Microbiology	4(2-0-2)
AFS-541	Technology of Milk and Milk Products	3(2-0-1)
AFS-551	Technology of Meat, Fish and Poultry Products	3(2-0-1)
AFS-561	Technology of Cereals, Pulses and Oilseeds	3(2-0-1)
AFS-571	Technology of Fruits and Vegetables	3(2-0-1)
AFS-580	Food Plant Sanitation	3(2-0-1)
AFS-591	Food Packaging Technology	2(1-0-1)
AEC-600	Master's Seminar	1
AEC-620	Agricultural Marketing and Price Analysis	2(1-1-1)
AFS-623	Additives, Ingredients and Enzyme Technology	3(2-0-1)
AEC-640	Agricultural Production Economics	2(1-1-1)
AFS-685	Beverage and Snack Foods Technology	3(2-0-1)
AFS-686	Product Design and Development	2(2-0-0)
AEC-690	Masters' Thesis Research	20
AEC-700	Advanced Micro Economic Theory	2(2-2-0)
AEC-701	Advanced Macro Economic Theory	2(2-2-0)
AEC-710	Advanced Econometrics	3(2-0-1)
AFS-712	Modern Techniques in Food Processing	2(2-0-0)
AEC-715	Operations Research for Agricultural Decisions	3(2-0-1)
AFS-722	Advanced Food Chemistry	2(2-0-0)
AFS-733	Advances in Food Microbiology	2(1-0-1)
AFS-781	Advanced Food Analysis	2(0-0-2)
AEC-788	Doctoral Seminar-I	1
AEC-789	Doctoral Seminar-II	1
AEC-790	Ph.D. Thesis Research	45

2. Agricultural Extension and Communication M.Sc. (Agricultural Extension and Communication)

Core	Courses	(19	credits))

Core Courses (19 c	eredits)	
AAC-530	Research Methods in Behavioural Sciences	3(2-0-1)
AAC-602	Foundations of Human Behaviour	3(2-0-1)
AAC-603	Fundamentals of Development Communication	3(2-0-1)
AAC-605	Perspectives of Distance Education	2(2-0-0)
AAC-635	Training for Human Resource Development	3(2-0-1)
AAC-650	Trends in Extension Education	2(2-0-0)
AAC-654	Diffusion and Adoption of Innovations	2(2-0-0)
AAC-600	Master's Seminar	1
	Sub Total	19
Basic Supporting (
BPS-561	Statistical Methods	3(2-0-1)
Optional/ Minor C	ourses (8 credits)	8
Thesis Research (2		
AAC-690	Master's Thesis Research	20
	Total	50
	al Extension and Communication)	
Core Courses (14 c		
AAC-666	Advanced Management Techniques	3(2-0-1)
AAC-703	Advances in Agricultural Extension	3(2-0-1)
AAC-706	Instructional Technology	3(2-0-1)
AAC-730	Advanced Design and Techniques in Social Science	3(2-0-1)
	Research	
AAC-788	Doctoral Seminar-I	1
AAC-789	Doctoral Seminar-II	1
	Sub Total	14
Basic Supporting (
BPS-671	Theory of Sampling	3(2-0-1)
Optional Courses ((3 credits)	3
Minor Courses (10	credits)	10
Thesis Research (4	5 credits)	
AAC-790	Ph.D. Thesis Research	45
	Total	75
	es for the minor of Ph. D. for Other Disciplines	
BHS/AAC- 702	Foundations of Psychology	3(3-0-0)
BHS/AAC- 661	Dynamics of Social Change	2(2-0-0)

AAC-530	Research Methods in Behavioural Sciences	3(2-0-1)
AAC-600	Master's Seminar	1
AAC-601	Special Problem	1-2
AAC-602	Foundations of Human Behaviour	3(2-0-1)
AAC-603	Fundamentals of Development Communication	3(2-0-1)
AAC-604	Gender Sensitization for Development	3(2-0-1)
AAC-605	Perspectives of Distance Education	2(2-0-0)
AAC-606	Media Production and Management	3(2-0-1)
AAC-607	E-Extension	3(2-0-1)
AAC-608	Visual Communication	3(2-0-1)
AAC-610	Speech Communication	3(1-0-2)
AAC-611	Interpersonal Communication	3(1-0-2)
AAC-612	Communication Media and Information Technology	2(1-0-1)
AAC-620	Radio for Rural Development	3(1-0-2)
AAC-621	Video for Rural Development	3(1-0-2)
AAC-630	Photography for Development	3(1-0-2)
AAC-631	Field Publicity Methods	3(2-0-1)
AAC-632	Advertising and Publication Relation	3(2-0-1)
AAC-633	Folk and Traditional Media	2(2-0-0)
AAC-635	Training for Human Resource Development	3(2-0-1)
AAC-636	Managerial Skills for Extension Professionals	2(2-0-0)
AAC-640	Publication Editing and Production	3(1-0-2)
AAC-641	Agricultural Journalism	3(2-0-1)
AAC-642	Science Reporting	3(2-0-1)
AAC-643	Script Writing For Development Media	2(2-0-0)
AAC-650	Trends in Extension Education	2(2-0-0)
AAC-652	Rural Development Programme	2(2-0-0)
AAC/	Dynamics of Rural Leadership	2(2-0-0)
BHS-653	1	,
AAC-654	Diffusion and Adoption of Innovations	2(2-0-0)
AAC-656	Teaching Methodology	2(1-0-1)
AAC-657	Youth Work in Agricultural Extension	2(2-0-0)
AAC-658	Agriculture Education	2(1-0-1)
AAC-659	Participatory Methods in Extension	2(1-0-1)
AAC-660	Communication Evaluation	3(2-0-1)
AAC/	Dynamics of Social Change	2(2-0-0)
BHS-661	,	, ,
AAC-662	Sociology of Communication	2(2-0-0)
AAC-663	Organizational Communication	2(2-0-00
AAC-665	Entrepreneurship Development and Management in Extension	3(2-0-1)
AAC-666	Advanced Management Techniques	3(2-0-1)
AAC-667	Writing Skills for Professional	2(1-0-1)
AAC-668	Presentation Skills	2(1-01)
AAC-669	Advances in Training Technology	3(2-0-1)
AAC-670	Market Led Extension Management	2(1-0-1)
AAC-671	Transfer of Technology in Agriculture	3(2-0-1)
AAC-672	Organizational Development	3(2-0-1)
AAC-690	Master's Thesis Research	20

AAC/	Foundation of Psychology	3(3-0-0)
BHS-702		
AAC-703	Advances in Agricultural Extension	3(2-0-1)
AAC-706	Instructional Technology	3(2-0-1)
AAC-730	Advanced Design and Techniques in Social Science Research	3(2-0-1)
AAC-788	Doctoral Seminar-I	1
AAC-789	Doctoral Seminar-II	1
AAC-790	Ph.D. Thesis Research	45

3. Agrometerology M.Sc. Ag. (Agro meter Core Courses (13 cred			
AAM-503	Micrometeorology		3(2-0-1)
AAM-510	General Meteorology		3(3-1-0)
AAM-515	Applied Agricultural Climatology		3(2-0-1)
AAM-520	Agricultural Meteorology		3(2-0-1)
AAM-600	Master's Seminar	C 1 T 4 1	1
Dagie Companting Com	ugas (7 anadita)	Sub Total	13
Basic Supporting Cour BPP-534			2(2 () 1)
DFF-334	Agro meteorological Measurements and Instrumentation		3(2-0-1)
BPS-661	Experimental Statistics		4(3-0-1)
DI 5-001	Experimental statistics	Sub Total	7
Optional/ Minor Cour	ses (10 credits)	Sub Total	10
Thesis Research (20 cr			10
AAM-690	Master's Thesis Research		20
AAW-070	Waster 8 Thesis Research	Total	50
		Total	30
Ph.D. (Agro meteorolo	ogv)		
Core Courses (11 cred			
AAM-701	Climate Change and Sustainable Develop	ment	3(2-0-1)
AAM-706	Strategic Use of Climatic Information		3(2-0-1)
AAM-710	GIS: Principles and Applications		3(2-0-1)
AAM-788	Doctoral Seminar-I		1
AAM-789	Doctoral Seminar-II		1
		Sub Total	11
Basic Supporting Coun	rses (6 credits)		
DDC (70	ises (o ci cares)		
BPS-672	Mathematical Statistics		3(3-1-0)
APS-650			3(3-1-0) 3(2-0-1)
APS-650	Mathematical Statistics Soil Physics	Sub Total	3(2-0-1) 6
APS-650 Optional Courses (3 cm	Mathematical Statistics Soil Physics redits)	Sub Total	3(2-0-1) 6 3
APS-650 Optional Courses (3 cr Minor Courses (10 cre	Mathematical Statistics Soil Physics redits) dits)	Sub Total	3(2-0-1) 6
APS-650 Optional Courses (3 cr Minor Courses (10 cre Thesis Research (45 cr	Mathematical Statistics Soil Physics redits) dits) redits)	Sub Total	3(2-0-1) 6 3 10
APS-650 Optional Courses (3 cr Minor Courses (10 cre	Mathematical Statistics Soil Physics redits) dits)		3(2-0-1) 6 3 10 45
APS-650 Optional Courses (3 cr Minor Courses (10 cre Thesis Research (45 cr	Mathematical Statistics Soil Physics redits) dits) redits)	Sub Total Total	3(2-0-1) 6 3 10
APS-650 Optional Courses (3 cr Minor Courses (10 cre Thesis Research (45 cr AAM-790	Mathematical Statistics Soil Physics redits) dits) redits) Ph.D. Thesis Research		3(2-0-1) 6 3 10 45
APS-650 Optional Courses (3 cr Minor Courses (10 cre Thesis Research (45 cr AAM-790 Compulsory courses for	Mathematical Statistics Soil Physics redits) dits) redits) Ph.D. Thesis Research or Minor for Other Discipline		3(2-0-1) 6 3 10 45 75
APS-650 Optional Courses (3 cr Minor Courses (10 cre Thesis Research (45 cr AAM-790	Mathematical Statistics Soil Physics redits) dits) redits) Ph.D. Thesis Research		3(2-0-1) 6 3 10 45

AAM-401	Principles of Agro-meteorology	3(2-0-1)
AAM-500	Principles of Remote Sensing	3(2-0-1)
AAM-503	Micrometeorology	3(2-0-1)
AAM-510	General Meteorology	3(3-1-0)
AAM-515	Applied Agricultural Climatology	3(2-0-1)
AAM-520	Agricultural Meteorology	3(2-0-1)
AAM-525	Hydrometeorology	3(2-0-1)
AAM-538	Forest Meteorology	3(2-0-1)
AAM-600	Master's Seminar	1
AAM-630	Crop Weather Models	3(2-0-1)
AAM-632	Evapo-transpiration	2(1-0-1)
AAM-640	Weather Forecasting and Agro-advisories	3(2-0-1)
AAM-650	Remote Sensing Applications in Agriculture	3(2-0-1)
AAM-655	Computer Applications in Agro meteorology	3(1-0-2)
AAM-690	Master's Thesis Research	20
AAM-701	Climate Change and Sustainable Development	3(2-0-1)
AAM-703	Air Pollution Meteorology	3(2-0-1)
AAM-704	Weather Climate and Livestock	3(2-0-1)
AAM-705	Analytical Tools and Methods for Agro meteorology	3(2-0-1)
AAM-706	Strategic Use of Climatic Information	3(2-0-1)
AAM-708	Database Management and Commercialization of Agro	3(1-0-2)
	meteorological Data in E-services	
AAM-710	GIS: Principles and Applications	3(2-0-1)
AAM-715	Geo-information for Disaster Management	3(2-0-1)
AAM-720	Sustainable Natural Resource Management	3(2-0-1)
AAM-788	Doctoral Seminar-I	1
AAM-789	Doctoral Seminar-II	1
AAM-790	Ph.D. Thesis Research	45

4. Agronomy M.Sc. Ag. (Agronomy) Core Courses (13 credi			
APA-505 Pr	rinciples and practices of soil fertility and nu tanagement	trient	4(3-0-1)
	gronomy of <i>Kharif</i> crops		4(3-0-1)
	gronomy of <i>Rabi</i> crops		4(3-0-1)
	Iaster's Seminar		1
	Su	b Total	13
Basic Supporting Cour	rses (8 credits)		
BPY-501 Pr	rinciples of Plant Physiology		4(3-0-1)
BPS-661 Ex	xperimental Statistics		4(3-0-1)
	Su	ıb Total	8
Optional/ Minor Cours	ses (9 credits)		9
Thesis Research (20 c	eredits)		
APA-690 M	Iaster's Thesis Research		20
		Total	50
	or the minor of Master's for Other Discipl	ines	
	gronomy of Kharif Crops		4(3-0-1)
APA-522 Ag	gronomy of Rabi Crops		4(3-0-1)
Ph.D. Agronomy			
Core Courses (12 credi			2/2 0 0)
	urrent Trends in Agronomy		3(3-0-0)
	eed and Crop Physiology		4(3-0-1)
	ineral Nutrition of Crop Plants		3(2-0-1)
	octoral Seminar-I		1
APA-789 Do	octoral Seminar-II		1
		ıb Total	12
Basic Supporting Cour			2(2,0,1)
	dvanced Experimental Design		3(2-0-1)
Optional Courses (5 c			5
Minor Courses (10 cree			10
Thesis Research (45 c APA-790 P	Ph.D. Thesis research		15
APA-790 P	n.D. Thesis research	T-4-1	45 75
		Total	75
Compulsory courses for	or the minor of Ph. D. for Other Dissipline	ic.	
	or the minor of Ph. D. for Other Discipline arrent Trends in Agronomy	3	3(3-0-0)
	ineral Nutrition of Crop Plants		3(2-0-1)
Ara-704 M	meral reduction of Crop Flants		3(2-0-1)

APA-401	Elements of Crop Production**	3(2-0-1)
APA-402	Agro-techniques of Field Crops **	3(2-0-1)
APA-501	Modern Concepts in Crop Production	4(3-0-1)
APA-503	Principles and Practices of Weed Management	3(2-0-1)
APA-504	Principles and Practices of Water Management	3(2-0-)
APA-505	Principles and Practices of Soil Fertility and Nutrient	4(3-0-1)
	Management	
APA-513	Principles and Practices of Organic Farming	3(2-0-1)
APA-521	Agronomy of Kharif Crops	4(3-0-1)
APA-522	Agronomy of Rabi Crops	4(3-0-1)
APA/	Medicinal, Aromatic and Under Utilized Crops	3(2-0-1)
APH-531		
APA-600	Master's Seminar	1
APA-603	Crop Production and System Modeling	3(2-0-1)
APA-604	Advances in Crop Growth and Productivity	3(2-0-1)
APA-606	Advances in Weed Management	2(2-0-0)
APA-608	Integrated Farming System for Sustainable Agriculture	2(2-0-0)
APA-609	Agrostology and Agroforestry	3(2-0-1)
APA-610	Crop Ecology	2(1-0-1)
APA-614	Soil Conservation and Watershed Management	3(2-0-1)
APA-615	Stress Crop Production	3(2-0-1)
APA-616	Current Trends in Agronomy	3(3-0-0)
APA-653	Precision Agronomy	3(2-0-1)
APA-690	Master's Thesis Research	20
AST-702	Seed Vigour	2(1-0-1)
APA-703	Seed and Crop Physiology	4(3-0-1)
APA-704	Mineral Nutrition of Crop Plants	3(2-0-1)
APA-788	Doctoral Seminar-I	1
APA-789	Doctoral Seminar-II	1
APA-790	Ph.D. Thesis Research	45

^{**} Courses are remedial course for non-Agriculture graduates.

C C	try-Agroforestry	
	es (13 credits)	2/2 0 0
APF-501	Silviculture	2(2-0-0
APF-502	Forest Biometry	3(2-0-1
APF-503	Forest Management	2(2-0-0
APF-521	Agroforestry Systems	2(2-0-0
APF-522 APF-600	Soil and Water Management in Agroforestry Master's Seminar	3(2-0-1
APF-000	Sub Total	1 13
Posia Suppa		13
BPS- 661	orting Courses (7 credits)	4(2 O 1
APS-705	Experimental statistics Remote Sensing and GIS Techniques for Soil and Cron studies	4(3-0-1
AP3-703	Remote Sensing and GIS Techniques for Soil and Crop studies Sub Total	3(2-0-1
Ontional Co		7 10
	ourses (10 credits) earch (20 credits)	10
APF- 690		20
AFF- 090	Total	50
	Total	30
Compulsory	Courses for minor for other Discipline	
	The state of the s	
APF-522	Soil and Water Management in Agroforestry	3(2-0-1
APF-522 APF-622	Soil and Water Management in Agroforestry Productivity of Agroforestry Systems	`
APF-622		`
APF-622 List of Post C	Productivity of Agroforestry Systems Graduate Coursesof the Department	3(3-0-0
APF-622 List of Post C APF-501	Productivity of Agroforestry Systems Graduate Coursesof the Department Silviculture	3(2-0-1 3(3-0-0 2(2-0-0 3(2-0-1
APF-622 List of Post G APF-501 APF-502	Productivity of Agroforestry Systems Graduate Coursesof the Department Silviculture Forest Biometry	3(3-0-0 2(2-0-0 3(2-0-1
APF-622 List of Post C APF-501 APF-502 APF-503	Productivity of Agroforestry Systems Graduate Coursesof the Department Silviculture Forest Biometry Forest Management	3(3-0-0 2(2-0-0 3(2-0-1 2(2-0-0
APF-622 List of Post 0 APF-501 APF-502 APF-503 APF-504	Productivity of Agroforestry Systems Graduate Coursesof the Department Silviculture Forest Biometry Forest Management Forest Products and Industries	2(2-0-0 3(2-0-1 2(2-0-0 3(2-0-1
APF-622 List of Post O APF-501 APF-502 APF-503 APF-504 APF-505	Productivity of Agroforestry Systems Graduate Coursesof the Department Silviculture Forest Biometry Forest Management	2(2-0-0 3(2-0-1 2(2-0-0 3(2-0-1 3(2-0-1
APF-622 APF-501 APF-502 APF-503 APF-504 APF-505 APF-507	Productivity of Agroforestry Systems Graduate Coursesof the Department Silviculture Forest Biometry Forest Management Forest Products and Industries Forest Ecology and Biodiversity Conservation Forest Protection	2(2-0-0 3(2-0-1 2(2-0-0 3(2-0-1 3(2-0-1 2(1-0-1
APF-622 List of Post O APF-501 APF-502 APF-503 APF-504 APF-505	Productivity of Agroforestry Systems Graduate Coursesof the Department Silviculture Forest Biometry Forest Management Forest Products and Industries Forest Ecology and Biodiversity Conservation Forest Protection Tree Improvement	2(2-0-0 3(2-0-1 2(2-0-0 3(2-0-1 3(2-0-1 2(1-0-1 2(1-0-1
APF-622 APF-501 APF-502 APF-503 APF-504 APF-505 APF-507 APF-509 APF-510	Productivity of Agroforestry Systems Graduate Coursesof the Department Silviculture Forest Biometry Forest Management Forest Products and Industries Forest Ecology and Biodiversity Conservation Forest Protection Tree Improvement Forest Nursery and Plantation Technology	2(2-0-0 3(2-0-1 2(2-0-0 3(2-0-1 3(2-0-1 2(1-0-1 2(1-0-1
APF-622 APF-501 APF-502 APF-503 APF-504 APF-505 APF-507 APF-509 APF-510 APF-521	Productivity of Agroforestry Systems Graduate Coursesof the Department Silviculture Forest Biometry Forest Management Forest Products and Industries Forest Ecology and Biodiversity Conservation Forest Protection Tree Improvement Forest Nursery and Plantation Technology Agroforestry Systems	2(2-0-0 3(2-0-1 2(2-0-0 3(2-0-1 2(1-0-1 2(1-0-1 2(2-0-0
APF-622 APF-501 APF-502 APF-503 APF-504 APF-505 APF-507 APF-509 APF-510 APF-521 APF-522	Productivity of Agroforestry Systems Graduate Coursesof the Department Silviculture Forest Biometry Forest Management Forest Products and Industries Forest Ecology and Biodiversity Conservation Forest Protection Tree Improvement Forest Nursery and Plantation Technology	2(2-0-0 3(2-0-1 2(2-0-0 3(2-0-1 2(1-0-1 2(1-0-1 2(2-0-0
APF-622 APF-501 APF-502 APF-503 APF-504 APF-505 APF-507 APF-509 APF-510 APF-521	Productivity of Agroforestry Systems Graduate Coursesof the Department Silviculture Forest Biometry Forest Management Forest Products and Industries Forest Ecology and Biodiversity Conservation Forest Protection Tree Improvement Forest Nursery and Plantation Technology Agroforestry Systems Soil and Water Management in Agroforestry	2(2-0-0 3(2-0-1 2(2-0-0 3(2-0-1 2(1-0-1 2(1-0-1 2(2-0-0 3(2-0-1

5. Entomology	logy)	
M.Sc. Ag. (Entomo Core Courses (16 c		
APE-501	Insect Morphology	2(1-0-1)
APE-501 APE-502	Insect Morphology Insect Anatomy, Physiology and Nutrition	3(2-0-1)
APE-507	• • •	
	Biological control of crop pests and weeds	2(1-0-1)
APE-508	Toxicology of insecticides	3(2-0-1)
APE-510	Principles of integrated pest management	2(1-0-1)
APE-553	Insect Taxonomy	3(2-0-1)
APE-600	Master's Seminar	1
Desir Constant	Sub Total	16
Basic Supporting C		4(2,0,1)
BPS-601	Experimental Statistics	4(3-0-1)
BHS-610	Storage and Retrieval of Scientific information	1(1-0-0)
	Sub Total	5
Optional/ Minor Co		9
Thesis Research (20		
APE-690	Master's Thesis Research	20
	Total	50
Dh.D. (Enternale av		
Ph.D. (Entomology)		
Core Courses (11 c) APE-705		2(1,0,1)
	Insect Behaviour	2(1-0-1)
APE-711	Molecular Approaches in Entomological Research	2(1-0-1)
APE-712	Advanced Integrated Pest Management	2(2-0-0)
APE-718	Entomological Technique	1(0-0-1)
APE-753	Insect Host Plant Relationship	2(1-0-1)
APE-788	Doctoral Seminar-I	1
APE-789	Doctoral Seminar-II	1
	Sub Total	11
Basic Supporting C		
BBC-501	J	3(3-0-0)
BMB-520	Fundamentals of Molecular Biology	3(3-0-0)
	Sub Total	6
Optional Courses (3	3 credits)	3
Minor Courses (10	credits)	10
Thesis Research (45	5 credits)	
APE-790	Ph.D. Research Thesis	45
	Total	75

APE-430	Pests of Field Crops and Stored Grains	3(2-0-1)
APE-431	Pests of Horticultural Crops	3(2-0-1)
APE-501	Insect Morphology	2(1-0-1)
APE-502	Insect Anatomy, Physiology and Nutrition	3(2-0-1)
APE-505	Insect Ecology	2(1-0-1)
APE-506	Insect Pathology	2(1-0-1)
APE-507	Biological control of crop pests and weeds	2(1-0-1)
APE-508	Toxicology of insecticides	3(2-0-1)
APE-510	Principles of integrated pest management	2(1-0-1)
APE-513	Storage Entomology	2(1-0-1)
APE-518	Techniques in Plant Protection	1(0-0-1)
APE-519	Commercial Entomology	2(1-0-1)
APE-553	Insect Taxonomy	3(2-0-1)
APE-600	Master's Seminar	1
APE-601	Special Problem	2
APE-614	Agricultural Zoology	2(1-0-1)
APE-690	Master's Thesis Research	20
APE-701	Advanced Insect Systematics	3(1+2)
APE-703	Advanced Insect Physiology	2(2-0-0)
APE-705	Insect Behaviour	2(1-0-1)
APE-706	Recent Trends in Biological Control	2(1-0-1)
APE-707	Advanced Insecticide Toxicology	3(2-0-1)
APE-711	Molecular Approaches in Entomological Research	2(1-0-1)
APE-712	Advanced Integrated Pest Management	2(2-0-0)
APE-718	Entomological Technique	1(0-0-1)
APE-753	Insect Host plant Relationship	2(1-0-1)
APE-788	Doctoral Seminar-I	1
APE-789	Doctoral Seminar-II	1
APE-790	Ph.D. Thesis Research	45

6. Food Science an M.Sc. (Food Techr Core Courses (11 o	nology)		
AFS-511	Principles of Food Processing		3(2-0-1)
AFS-526	Food Chemistry and Nutrition		3(3-0-0)
AFS-531	Food Microbiology		4(2-0-2)
AFS-600	Master's Seminar		1
		Sub Total	11
Basic Supporting 	Courses (9 credits)		
TPF- 644	Unit Operations in Food Process Engin	eering	3(2-0-1)
BBC-501	General Biochemistry	C	3(3-0-0)
BBM-500	General Microbiology		3(3-0-0)
	2.7	Sub Total	9
Optional/ Minor C	ourses (10 credits)		10
Thesis Research (2			
AFS-690	Master's Thesis Research		20
		Total	50
Ph.D. (Food Techn	ology)		
Core Courses (12 o	eredits)		
AFS-686	Product Design and Development		2(2-0-0)
AFS-712	Modern Techniques in Food Processing		2(2-0-0)
AFS-722	Advanced Food Chemistry		2(2-0-0)
AFS-733	Advances in Food Microbiology		2(1-0-1)
AFS-781	Advanced Food Analysis		2(0-0-2)
AFS-788	Doctoral Seminar-I		1
AFS-789	Doctoral Seminar-II		1
		Sub Total	12
Basic Supporting 	Courses (3 credits)		
TPF-645	Food Processing Equipments and Plant I	Design	3(2-0-1)
0.4	(F 1941)		_
Optional Courses			5
Minor Courses (10			10
Thesis Research (4	Ph. D. Thesis Research		15
AFS - 190	Pn. D. Thesis Research	TD - 4 - 1	45 7 5
		Total	75
Compulsory Com	reas for the Miner for Other Dissiplines		
AFS 511	rses for the Minor for Other Disciplines Principles of Food Processing		3(2-0-1)
AFS 311	rinciples of rood riocessing		3(2-0-1)

AFS-511	Principles of Food Processing	3(2-0-1)
AFS-526	Food Chemistry and Nutrition	3(3-0-0)
AFS-531	Food Microbiology	4(2-0-2)
AFS-541	Technology of Milk and Milk Products	3(2-0-1)
AFS-551	Technology of Meat, Fish and Poultry Products	3(2-0-1)
AFS-561	Technology of Cereals, Pulses and Oilseeds	3(2-0-1)
AFS-571	Technology of Fruits and Vegetables	3(2-0-1)
AFS-580	Food Plant Sanitation	3(2-0-1)
AFS-582	Food Analysis and Quality management	3(1-0-2)
AFS-591	Food Packaging Technology	2(1-0-1)
AFS-600	Master's Seminar	1
AFS-601	Special Problems	1-2
AFS-623	Additives, Ingredients and Enzyme Technology	3(2-0-1)
AFS-685	Beverage and Snack Foods Technology	3(2-0-1)
AFS-686	Product Design and Development	2(2-0-0)
AFS-690	Master's Thesis Research	20
AFS-712	Modern Techniques in Food Processing	2(2-0-0)
AFS-722	Advanced Food Chemistry	2(2-0-0)
AFS-733	Advances in Food Microbiology	2(1-0-1)
AFS-741	Current Topics in Food Science and Technology	2(2-0-0)
AFS-781	Advanced Food Analysis	2(0-0-2)
AFS-788	Doctoral Seminar-I	1
AFS-789	Doctoral Seminar-II	1
AFS-790	Ph. D. Thesis Research	45

7. Genetic	s and Plant Breeding	
	(Genetics and Plant Breeding)	
Core Cou	rses (17 credits)	
AGP 520	Breeding Field Crops-I	2(1-0-1)
AGP 530	Breeding Field Crops-II	2(1-0-1)
AGP 540	Cell Biology, Molecular Genetics and Gene Regulation	3(3-0-0)
AGP 550	Principles of Cytogenetics	3(2-0-1)
AGP 560	Advanced Plant Breeding	3(3-0-0)
AGP 570	Principles of Quantitative Genetics	3(2-0-1)
AGP 600	Master's Seminar	1(1-0-0)
	Sub Total	17
Basic Supp	porting Courses (4 credits)	
BPS 661	Experimental Statistics	4(3-0-1)
	Minor Courses (9 credits)	9
	Thesis Research (20 credits)	
AGP 690	Master's Thesis Research	20
	Total	50
Ph.D. (Ger	netics and Plant Breeding)	
	rses (11 credits)	
AGP 720	Advances in Plant Breeding Systems	2(2-0-0)
AGP 724	Genomics in Crop Improvement	2(2-0-0)
AGP 725	Molecular and Chromosomal Manipulation for Crop Breeding	2(2-0-0)
AGP 730	Advanced Biometrical and Quantitative Genetics	3(2-0-1)
AGP 788	Doctoral Seminar-I	1(1-0-0)
AGP 789	Doctoral Seminar-II	1(1-0-0)
	Sub Total	11
Basic Supp	porting Courses (3 credits)	
BPS 662	Advanced Experimental Designs	3(2-0-1)
AST 705	Advances in Seed Science Research	1(1-0-0)
	Sub Total	4
Optional (Courses (5 credits)	5
Minor Cou	urses (10 credits)	10
Thesis Res	search (45 credits)	
AGP 790	Ph.D. Thesis Research	45
	Total	75
Compulsor	y Courses for Minor for Other Discipline	
AGP 540	Cell Biology, Molecular Genetics and Gene Regulation	3(3-0-0)
AGP 560	Advanced Plant Breeding	3(3-0-0)
	C	(

AGP-411	Principles of Genetics	3(2-0-1)
AGP-421	Principles of Plant Breeding	3(3-0-0)
AGP 520	Breeding Field Crops-I	2(1-0-1)
AGP 530	Breeding Field Crops-II	2(1-0-1)
AGP 540	Cell Biology, Molecular Genetics and Gene Regulation	3(3-0-0)
AGP 550	Principles of Cytogenetics	3(2-0-1)
AGP 560	Advanced Plant Breeding	3(3-0-0)
AGP 570	Principles of Quantitative Genetics	3(2-0-1)
AGP 600	Master's Seminar	1(1-0-0)
AGP 601	Special Problem	1-2
AGP 610	Plant Genetic Resources and Crop Evolution	3(2-0-1)
AGP 622	Breeding for Biotic and Abiotic stress resistance	3(3-0-0)
AGP 624	Biotechnology for Crop Improvement	3(2-0-1)
AGP 625	Maintenance breeding, variety release and seed production	2(1-0-1)
AGP 630	Breeding for Crop Quality	2(1-0-1)
AGP 640	Heterosis breeding	2(1-0-1)
AGP 650	Mutagenesis and Mutation Breeding	2(2-0-0)
AGP 690	Master's Thesis Research	20
AGP 720	Advances in Plant Breeding Systems	2(2-0-0)
AGP 724	Genomics in Crop Improvement	2(2-0-0)
AGP 725	Molecular and Chromosomal Manipulation for Crop Breeding	2(2-0-0)
AGP 730	Advanced Biometrical and Quantitative Genetics	3(2-0-1)
AGP 788	Doctoral Seminar-I	1(1-0-0)
AGP 789	Doctoral Seminar-II	1(1-0-0)
AGP 790	Ph.D. Thesis Research	45

Ph.D. (Seed Science and Technology) (Multi-disciplinary programme) Core Courses (8 credits)

	2(1-0-1)
ction	3(2-0-1)
	1(1-0-0)
	1(1-0-0)
	1(1-0-0)
Total	8
	3(3-0-0)
	1(0-0-1)
	1(0 0 1)
	3(2-0-1)
Total	` ,
Total	3(2-0-1)
Total	3(2-0-1)
Total	3(2-0-1) 7 5
Total	3(2-0-1) 7 5
Total Total	3(2-0-1) 7 5 10
	3(2-0-1) 7 5 10 45
	3(2-0-1) 7 5 10 45

List of Post Graduate Courses of the Department (Multi-disciplinary programme)

APV 535	Seed Production Technology of Vegetable Crops	3(2-0-1)
AST 601	Special Problem*	1-2
BPY 608	Seed Physiology	3(2-0-1)
AGP 610	Plant Genetic Resources and Crop Evolution	3(2-0-1)
APP 615	Seed Health Testing	3(2-0-1)
AST/AGP 701	Hybrid Seed Production	2(1-0-1)
AST/ APA 702	Seed Vigour	2(1-0-1)
AST/ AEC 703	Seed Marketing and Management	2(1-0-1)
AST/AGP 704	Seed Laws and DUS Testing for Plant Variety Protection	3(2-0-1)
AST 705	Advances in Seed Science Research	1(1-0-0)
APP 710	Seed Health Technology	3(2-0-1)
AST 788	Doctoral Seminar-I*	1(1-0-0)
AST 789	Doctoral Seminar-II*	1(1-0-0)
AST 790	Ph.D. Thesis Research	45

^{*}course will be offered by the department of respective advisors

8. Horticulture

o. Hoi ucui	ture		
M.Sc. Ag. ((Horticulture)		
Core Cour	ses (13 credits)		
APH-541	Tropical and dry land fruit production		3(2-0-1)
APH-542	Subtropical and Temperate fruit production		3(2-0-1)
APH-543	Biodiversity and conservation of fruit crops		3(2-0-1)
APH-546	Breeding of fruit crops		3(2-0-1)
APH-600	Master's Seminar		1(1-0-0)
	Sub To	tal	13
Basic Supp	orting Courses (7 credits)		
BPS-661	Experimental statistics		4(3-0-1)
APV-531	Production technology of cool season vegetable crops		3(2-0-1)
	Sub To	tal	7
Optional C	ourses (10 credits)		10
Thesis Res	earch (20 credits)		
APH-690	Master's Thesis Research		20
	To	tal	50
DI D II 4	• 1/		
Ph.D. Hort			
	ses (11 credits)		2(2,0,1)
APH-741	Advances in breeding of fruit crops		3(2-0-1)
APH-742	Advances in production of fruit crops		3(2-0-1)
APH-743	Advances in growth regulation of fruit crops		3(2-0-1)
APH-788	Doctoral Seminar-I		1(1-0-0)
APH-789	Doctoral Seminar-II		1(1-0-0)
D • C	Sub To	tal	11
	orting Courses (4 credits)		2(2,0,0)
BBC-501	General biochemistry		3(3-0-0)
BBC-505	1		1(0-0-1)
0 " 10	Sub To	tai	4
	ourses (5 credits)		5
	arses (10 credits)		10
	earch (45 credits)		4.5
APH-790	Ph.D. Thesis Research		45
	10	otal	75
Compula	Courses for Minor for Other Dissipline		
	Courses for Minor for Other Discipline Transical and dry land fruit production		2(2 0 1)
APH-541 APH-542	Tropical and dry land fruit production		3(2-0-1)
АГП-342	Subtropical and Temperate fruit production		3(2-0-1)

_	Horticulture (Floriculture and Landscaping) ses (16 credits)		
APH-551	Breeding of flower crops and ornamental plants		3(2-0-1)
APH-552	Production technology of cut flowers		3(2-0-1)
APH-553	Production technology of loose flowers		3(2-0-1)
APH-554	Landscaping and ornamental gardening		3(2-0-1)
APH-557	Turfing and turf management		3(2-0-1)
APH-600	Master's Seminar		1(1-0-0)
71111-000	Waster 5 Schillar	Sub Total	16
Rasic Sunn	orting Courses (4 credits)	Sub Total	10
BPS-661	Experimental statistics		4(3-0-1)
	ourses (10 credits)		10
	earch (20 credits)		10
	Master's Thesis Research		20
11111 070	Master 5 Thesis research	Total	50
		10001	20
	culture (Floriculture and Landscaping) ses (11 credits) Advances in breading of flower graps		2(2 0 1)
APH-751 APH-752	Advances in breeding of flower crops Advances in flower production technology		3(2-0-1) 3(2-0-1)
APH-754	Advances in landscape architecture		3(2-0-1)
APH-788	Doctoral Seminar-I		1(1-0-0)
APH-789	Doctoral Seminar-II		1(1-0-0)
AI 11-709	Doctoral Schillar-II	Sub Total	1(1-0-0)
Rocio Supp	orting Courses (4 credits)	Sub Total	11
BBC-501			3(3-0-0)
BBC-505	Basic techniques in biochemistry		1(0+1)
BBC-303	basic techniques in biochemistry	Sub Total	4
Ontional C	ourses (5 credits)	Sub Total	5
	rses (10 credits)		10
	earch (45 credits)		10
	Ph.D. Thesis Research		45
Al II-790	Th.D. Thesis Research	Total	75
		10111	7.5
	Courses for Minor for Other Discipline		
APH-552	Production Technology of Cut Flowers		3(2-0-1)
APH-553	Production Technology of Loose Flowers		3(2-0-1)

APH-401 Introduction to Horticulture APH-412 Production of Fruit Crops APH-413 Production of Ornamental Crops APH-503 Systematic Horticulture APH-511 Plant Propagation and Nursery Husbandry APH-513 Orchard Management APH-514 Tropical and dry land fruit production APH-542 Subtropical and Temperate fruit production APH-543 Biodiversity and conservation of fruit crops APH-544 Canopy management in fruit crops APH-545 Breeding of fruit crops APH-551 Breeding of flower crops and ornamental plants APH-551 Breeding of flower crops and ornamental plants APH-552 Production technology of cut flowers APH-553 Production technology of loose flowers APH-554 Landscaping and ornamental gardening APH-555 Turfing and turf management APH-600 Master's Seminar APH-601 Special Problem APH-611 Growth and development of horticultural crops APH-655 Protected floriculture APH-656 Value addition in flowers APH-656 Value addition in flowers APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-741 Advances in production of fruit crops 3(2-0-1) APH-742 Advances in production of fruit crops 3(2-0-1) APH-743 Advances in production of fruit crops 3(2-0-1) APH-754 Advances in production of fruit crops 3(2-0-1) APH-755 Advances in landscape architecture 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-755 Advances in landscape architecture 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-758 Doctoral Seminar-II 1(1-0-0)			
APH-511 Production of Ornamental Crops APH-503 Systematic Horticulture APH-511 Plant Propagation and Nursery Husbandry APH-513 Orchard Management APH-513 Orchard Management APH-514 Tropical and dry land fruit production APH-542 Subtropical and Temperate fruit production APH-543 Biodiversity and conservation of fruit crops APH-544 Canopy management in fruit crops APH-545 Breeding of fruit crops APH-551 Breeding of flower crops and ornamental plants APH-551 Breeding of flower crops and ornamental plants APH-552 Production technology of cut flowers APH-553 Production technology of loose flowers APH-554 Landscaping and ornamental gardening APH-557 Turfing and turf management APH-600 Master's Seminar APH-601 Special Problem APH-611 Growth and development of horticultural crops APH-655 Protected floriculture APH-656 Value addition in flowers APH-690 Master Thesis Research APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-731 Post harvest physiology of fruit crops APH-742 Advances in production of fruit crops APH-743 Advances in preeding of flower crops APH-754 Advances in flower production technology APH-755 Advances in flower production of fruit crops APH-751 Advances in landscape architecture APH-752 Advances in landscape architecture APH-753 APH-754 Advances in landscape architecture APH-754 Advances in landscape architecture APH-755 APH-754 Advances in landscape architecture APH-758 Doctoral Seminar-II	APH-401		, ,
APH-503 Systematic Horticulture 3(2-0-1) APH-511 Plant Propagation and Nursery Husbandry 3(2-0-1) APH-513 Orchard Management 3(2-0-1) APH-514 Tropical and dry land fruit production 3(2-0-1) APH-542 Subtropical and Temperate fruit production 3(2-0-1) APH-543 Biodiversity and conservation of fruit crops 3(2-0-1) APH-544 Canopy management in fruit crops 3(2-0-1) APH-545 Breeding of fruit crops 3(2-0-1) APH-546 Breeding of flower crops and ornamental plants 3(2-0-1) APH-551 Breeding of flower crops and ornamental plants 3(2-0-1) APH-552 Production technology of cut flowers 3(2-0-1) APH-553 Production technology of loose flowers 3(2-0-1) APH-554 Landscaping and ornamental gardening 3(2-0-1) APH-557 Turfing and turf management 3(2-0-1) APH-600 Master's Seminar 1(1-0-0) APH-601 Special Problem 1-2 APH-611 Growth and development of horticultural crops 3(2-0-1) APH-655 Protected floriculture 3(2-0-1) APH-690 Master Thesis Research 20 APH-730 Nutrition of horticultural crops 3(2-0-1) APH-731 Post harvest physiology of horticultural crops 3(2-0-1) APH-732 Advances in breeding of fruit crops 3(2-0-1) APH-742 Advances in breeding of fruit crops 3(2-0-1) APH-743 Advances in production of fruit crops 3(2-0-1) APH-745 Advances in flower production technology 3(2-0-1) APH-751 Advances in landscape architecture 3(2-0-1) APH-752 Advances in landscape architecture 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-758 Doctoral Seminar-II 1(1-0-0)		•	* * * * * * * * * * * * * * * * * * * *
APH-511 Plant Propagation and Nursery Husbandry APH-513 Orchard Management APH/APA-531 Medicinal aromatic and underutilized crops APH-541 Tropical and dry land fruit production APH-542 Subtropical and Temperate fruit production APH-543 Biodiversity and conservation of fruit crops APH-544 Canopy management in fruit crops APH-545 Breeding of fruit crops APH-546 Breeding of flower crops and ornamental plants APH-551 Breeding of flower crops and ornamental plants APH-552 Production technology of cut flowers APH-553 Production technology of loose flowers APH-554 Landscaping and ornamental gardening APH-557 Turfing and turf management APH-557 Turfing and turf management APH-600 Master's Seminar APH-601 Special Problem 1-2 APH-611 Growth and development of horticultural crops APH-655 Protected floriculture APH-656 Value addition in flowers APH-690 Master Thesis Research APH-690 Master Thesis Research APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-731 Post harvest physiology of fruit crops APH-741 Advances in breeding of fruit crops APH-742 Advances in production of fruit crops APH-743 Advances in growth regulation of fruit crops APH-751 Advances in flower production technology APH-752 Advances in flower production technology APH-754 Advances in landscape architecture 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-788 Doctoral Seminar-II 1(1-0-0)	APH-451	Production of Ornamental Crops	` ,
APH-513 Orchard Management APH-APA-531 Medicinal aromatic and underutilized crops APH-541 Tropical and dry land fruit production APH-542 Subtropical and Temperate fruit production APH-543 Biodiversity and conservation of fruit crops APH-544 Canopy management in fruit crops APH-545 Breeding of fruit crops APH-546 Breeding of flower crops and ornamental plants APH-551 Breeding of flower crops and ornamental plants APH-552 Production technology of cut flowers APH-553 Production technology of loose flowers APH-554 Landscaping and ornamental gardening APH-557 Turfing and turf management APH-600 Master's Seminar APH-601 Special Problem APH-611 Growth and development of horticultural crops APH-655 Protected floriculture APH-656 Value addition in flowers APH-650 Master Thesis Research APH-690 Master Thesis Research APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-731 Post harvest physiology of fruit crops APH-741 Advances in breeding of fruit crops APH-742 Advances in production of fruit crops APH-743 Advances in growth regulation of fruit crops APH-751 Advances in flower production technology APH-752 Advances in flower production technology APH-754 Advances in landscape architecture APH-788 Doctoral Seminar-II 1(1-0-0) APH-789 Doctoral Seminar-II	APH-503	Systematic Horticulture	
APH-541 Tropical and dry land fruit production 3(2-0-1) APH-542 Subtropical and Temperate fruit production 3(2-0-1) APH-543 Biodiversity and conservation of fruit crops 3(2-0-1) APH-544 Canopy management in fruit crops 3(2-0-1) APH-546 Breeding of fruit crops 3(2-0-1) APH-551 Breeding of flower crops and ornamental plants 3(2-0-1) APH-552 Production technology of cut flowers 3(2-0-1) APH-553 Production technology of loose flowers 3(2-0-1) APH-554 Landscaping and ornamental gardening 3(2-0-1) APH-557 Turfing and turf management 3(2-0-1) APH-600 Master's Seminar 1(1-0-0) APH-611 Growth and development of horticultural crops 3(2-0-1) APH-655 Protected floriculture 3(2-0-1) APH-656 Value addition in flowers 3(2-0-1) APH-690 Master Thesis Research 20 APH-730 Nutrition of horticultural crops 3(2-0-1) APH-731 Post harvest physiology of horticultural crops 3(2-0-1) APH-741 Advances in breeding of fruit crops 3(2-0-1) APH-742 Advances in production of fruit crops 3(2-0-1) APH-743 Advances in production of fruit crops 3(2-0-1) APH-751 Advances in flower production technology 3(2-0-1) APH-752 Advances in flower production technology 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-788 Doctoral Seminar-II 1(1-0-0) APH-789 Doctoral Seminar-II	APH-511	Plant Propagation and Nursery Husbandry	3(2-0-1)
APH-541 Tropical and dry land fruit production APH-542 Subtropical and Temperate fruit production APH-543 Biodiversity and conservation of fruit crops APH-544 Canopy management in fruit crops APH-545 Breeding of fruit crops APH-546 Breeding of fruit crops APH-551 Breeding of flower crops and ornamental plants APH-552 Production technology of cut flowers APH-553 Production technology of loose flowers APH-554 Landscaping and ornamental gardening APH-557 Turfing and turf management APH-600 Master's Seminar APH-601 Special Problem APH-611 Growth and development of horticultural crops APH-655 Protected floriculture APH-656 Value addition in flowers APH-690 Master Thesis Research APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-741 Advances in breeding of fruit crops APH-742 Advances in production of fruit crops APH-743 Advances in production of fruit crops APH-754 Advances in landscape architecture APH-755 Advances in landscape architecture APH-756 APH-757 Advances in landscape architecture APH-758 Doctoral Seminar-II 1(1-0-0) APH-788 Doctoral Seminar-II 1(1-0-0)	APH-513	Orchard Management	3(2-0-1)
APH-542 Subtropical and Temperate fruit production APH-543 Biodiversity and conservation of fruit crops APH-544 Canopy management in fruit crops APH-545 Breeding of fruit crops APH-546 Breeding of fruit crops APH-551 Breeding of flower crops and ornamental plants APH-552 Production technology of cut flowers APH-553 Production technology of loose flowers APH-554 Landscaping and ornamental gardening APH-557 Turfing and turf management APH-600 Master's Seminar APH-601 Special Problem APH-611 Growth and development of horticultural crops APH-655 Protected floriculture APH-656 Value addition in flowers APH-690 Master Thesis Research APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-741 Advances in breeding of fruit crops APH-742 Advances in production of fruit crops APH-743 Advances in production of fruit crops APH-754 Advances in flower production technology APH-755 Advances in landscape architecture APH-756 APH-757 Advances in landscape architecture APH-757 APH-758 Doctoral Seminar-II APH-788 Doctoral Seminar-II 1(1-0-0) APH-789	APH/APA-531	Medicinal aromatic and underutilized crops	3(2-0-1)
APH-543 Biodiversity and conservation of fruit crops APH-544 Canopy management in fruit crops APH-546 Breeding of fruit crops APH-551 Breeding of flower crops and ornamental plants APH-552 Production technology of cut flowers APH-553 Production technology of loose flowers APH-554 Landscaping and ornamental gardening APH-557 Turfing and turf management APH-600 Master's Seminar APH-601 Special Problem APH-611 Growth and development of horticultural crops APH-655 Protected floriculture APH-656 Value addition in flowers APH-690 Master Thesis Research APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-741 Advances in breeding of fruit crops APH-742 Advances in production of fruit crops APH-743 Advances in growth regulation of fruit crops APH-754 Advances in landscape architecture APH-755 Advances in landscape architecture APH-756 Advances in landscape architecture APH-757 ADR-758 Doctoral Seminar-II APH-788 Doctoral Seminar-II 1(1-0-0) APH-789	APH-541	Tropical and dry land fruit production	3(2-0-1)
APH-544 Canopy management in fruit crops APH-546 Breeding of fruit crops APH-551 Breeding of flower crops and ornamental plants APH-552 Production technology of cut flowers APH-553 Production technology of loose flowers APH-554 Landscaping and ornamental gardening APH-557 Turfing and turf management APH-600 Master's Seminar APH-601 Special Problem APH-611 Growth and development of horticultural crops APH-655 Protected floriculture APH-656 Value addition in flowers APH-690 Master Thesis Research APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-741 Advances in breeding of fruit crops APH-742 Advances in growth regulation of fruit crops APH-743 Advances in flower production technology APH-754 Advances in landscape architecture APH-755 APH-754 Advances in landscape architecture APH-788 Doctoral Seminar-II 1(1-0-0) APH-789 2(1-0-1) 3(2-0-1) 3(2-0-1) APH-780 APH-780 APH-781 Production of fruit crops APH-782 Advances in landscape architecture APH-784 Advances in landscape architecture APH-785 Doctoral Seminar-II APH-786 APH-788 APH-789 APH-789	APH-542	Subtropical and Temperate fruit production	3(2-0-1)
APH-546 Breeding of fruit crops APH-551 Breeding of flower crops and ornamental plants APH-552 Production technology of cut flowers APH-553 Production technology of loose flowers APH-554 Landscaping and ornamental gardening APH-557 Turfing and turf management APH-600 Master's Seminar APH-601 Special Problem APH-611 Growth and development of horticultural crops APH-655 Protected floriculture APH-656 Value addition in flowers APH-690 Master Thesis Research APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-741 Advances in breeding of fruit crops APH-742 Advances in growth regulation of fruit crops APH-751 Advances in flower production technology APH-752 Advances in flower production technology APH-754 Advances in landscape architecture APH-788 Doctoral Seminar-II 1(1-0-0) APH-789 3(2-0-1) APH-789 3(2-0-1) A(2-0-1)	APH-543	Biodiversity and conservation of fruit crops	3(2-0-1)
APH-551 Breeding of flower crops and ornamental plants APH-552 Production technology of cut flowers APH-553 Production technology of loose flowers APH-554 Landscaping and ornamental gardening APH-557 Turfing and turf management APH-600 Master's Seminar APH-601 Special Problem APH-611 Growth and development of horticultural crops APH-655 Protected floriculture APH-656 Value addition in flowers APH-690 Master Thesis Research APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-741 Advances in breeding of fruit crops APH-742 Advances in production of fruit crops APH-743 Advances in growth regulation of fruit crops APH-751 Advances in flower production technology APH-752 Advances in flower production technology APH-754 Advances in landscape architecture APH-755 APH-786 Doctoral Seminar-II APH-787 Doctoral Seminar-II 1(1-0-0) APH-788 Doctoral Seminar-II 1(1-0-0)	APH-544	Canopy management in fruit crops	2(1-0-1)
APH-552 Production technology of cut flowers 3(2-0-1) APH-553 Production technology of loose flowers 3(2-0-1) APH-554 Landscaping and ornamental gardening 3(2-0-1) APH-557 Turfing and turf management 3(2-0-1) APH-600 Master's Seminar 1(1-0-0) APH-601 Special Problem 1-2 APH-611 Growth and development of horticultural crops 3(2-0-1) APH-655 Protected floriculture 3(2-0-1) APH-656 Value addition in flowers 3(2-0-1) APH-690 Master Thesis Research 20 APH-730 Nutrition of horticultural crops 3(2-0-1) APH-731 Post harvest physiology of horticultural crops 3(2-0-1) APH-741 Advances in breeding of fruit crops 3(2-0-1) APH-742 Advances in production of fruit crops 3(2-0-1) APH-743 Advances in growth regulation of fruit crops 3(2-0-1) APH-751 Advances in breeding of flower crops 3(2-0-1) APH-752 Advances in flower production technology 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-758 Doctoral Seminar-I 1(1-0-0) APH-789 Doctoral Seminar-II 1(1-0-0)	APH-546	Breeding of fruit crops	3(2-0-1)
APH-553 Production technology of loose flowers APH-554 Landscaping and ornamental gardening APH-557 Turfing and turf management APH-600 Master's Seminar APH-601 Special Problem APH-611 Growth and development of horticultural crops APH-655 Protected floriculture APH-656 Value addition in flowers APH-690 Master Thesis Research APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-741 Advances in breeding of fruit crops APH-742 Advances in growth regulation of fruit crops APH-743 Advances in breeding of flower crops APH-751 Advances in breeding of flower crops APH-752 Advances in flower production technology APH-754 Advances in landscape architecture APH-755 Advances in landscape architecture APH-756 APH-757 APH-757 Advances in landscape architecture APH-758 Doctoral Seminar-II APH-789 Doctoral Seminar-II 3(2-0-1) 3(2-0	APH-551	Breeding of flower crops and ornamental plants	3(2-0-1)
APH-554 Landscaping and ornamental gardening 3(2-0-1) APH-557 Turfing and turf management 3(2-0-1) APH-600 Master's Seminar 1(1-0-0) APH-601 Special Problem 1-2 APH-611 Growth and development of horticultural crops 3(2-0-1) APH-655 Protected floriculture 3(2-0-1) APH-656 Value addition in flowers 3(2-0-1) APH-690 Master Thesis Research 20 APH-730 Nutrition of horticultural crops 3(2-0-1) APH-731 Post harvest physiology of horticultural crops 3(2-0-1) APH-741 Advances in breeding of fruit crops 3(2-0-1) APH-742 Advances in production of fruit crops 3(2-0-1) APH-743 Advances in growth regulation of fruit crops 3(2-0-1) APH-751 Advances in breeding of flower crops 3(2-0-1) APH-752 Advances in flower production technology 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-788 Doctoral Seminar-II 1(1-0-0) APH-789 Doctoral Seminar-III 1(1-0-0)	APH-552	Production technology of cut flowers	3(2-0-1)
APH-557 Turfing and turf management 3(2-0-1) APH-600 Master's Seminar 1(1-0-0) APH-601 Special Problem 1-2 APH-611 Growth and development of horticultural crops 3(2-0-1) APH-655 Protected floriculture 3(2-0-1) APH-656 Value addition in flowers 3(2-0-1) APH-690 Master Thesis Research 20 APH-730 Nutrition of horticultural crops 3(2-0-1) APH-731 Post harvest physiology of horticultural crops 3(2-0-1) APH-741 Advances in breeding of fruit crops 3(2-0-1) APH-742 Advances in production of fruit crops 3(2-0-1) APH-743 Advances in growth regulation of fruit crops 3(2-0-1) APH-751 Advances in breeding of flower crops 3(2-0-1) APH-752 Advances in flower production technology 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-788 Doctoral Seminar-II 1(1-0-0) APH-789 Doctoral Seminar-III 1(1-0-0)	APH-553	Production technology of loose flowers	3(2-0-1)
APH-600 Master's Seminar 1(1-0-0) APH-601 Special Problem 1-2 APH-611 Growth and development of horticultural crops 3(2-0-1) APH-655 Protected floriculture 3(2-0-1) APH-656 Value addition in flowers 3(2-0-1) APH-690 Master Thesis Research 20 APH-730 Nutrition of horticultural crops 3(2-0-1) APH-731 Post harvest physiology of horticultural crops 3(2-0-1) APH-741 Advances in breeding of fruit crops 3(2-0-1) APH-742 Advances in production of fruit crops 3(2-0-1) APH-743 Advances in growth regulation of fruit crops 3(2-0-1) APH-751 Advances in breeding of flower crops 3(2-0-1) APH-752 Advances in flower production technology 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-788 Doctoral Seminar-I 1(1-0-0) APH-789 Doctoral Seminar-II 1(1-0-0)	APH-554	Landscaping and ornamental gardening	3(2-0-1)
APH-601 Special Problem 1-2 APH-611 Growth and development of horticultural crops 3(2-0-1) APH-655 Protected floriculture 3(2-0-1) APH-656 Value addition in flowers 3(2-0-1) APH-690 Master Thesis Research 20 APH-730 Nutrition of horticultural crops 3(2-0-1) APH-731 Post harvest physiology of horticultural crops 3(2-0-1) APH-741 Advances in breeding of fruit crops 3(2-0-1) APH-742 Advances in production of fruit crops 3(2-0-1) APH-743 Advances in growth regulation of fruit crops 3(2-0-1) APH-751 Advances in breeding of flower crops 3(2-0-1) APH-752 Advances in flower production technology 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-788 Doctoral Seminar-I 1(1-0-0) APH-789 Doctoral Seminar-II 1(1-0-0)	APH-557	Turfing and turf management	3(2-0-1)
APH-611 Growth and development of horticultural crops APH-655 Protected floriculture APH-656 Value addition in flowers APH-690 Master Thesis Research APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-741 Advances in breeding of fruit crops APH-742 Advances in production of fruit crops APH-743 Advances in growth regulation of fruit crops APH-751 Advances in breeding of flower crops APH-751 Advances in flower production technology APH-752 Advances in flower production technology APH-754 Advances in landscape architecture APH-755 Doctoral Seminar-I APH-788 Doctoral Seminar-II 1(1-0-0) APH-789 APH-789	APH-600	Master's Seminar	1(1-0-0)
APH-655 Protected floriculture 3(2-0-1) APH-656 Value addition in flowers 3(2-0-1) APH-690 Master Thesis Research 20 APH-730 Nutrition of horticultural crops 3(2-0-1) APH-731 Post harvest physiology of horticultural crops 3(2-0-1) APH-741 Advances in breeding of fruit crops 3(2-0-1) APH-742 Advances in production of fruit crops 3(2-0-1) APH-743 Advances in growth regulation of fruit crops 3(2-0-1) APH-751 Advances in breeding of flower crops 3(2-0-1) APH-752 Advances in flower production technology 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-788 Doctoral Seminar-I 1(1-0-0) APH-789 Doctoral Seminar-II 1(1-0-0)	APH-601	Special Problem	1-2
APH-656 Value addition in flowers APH-690 Master Thesis Research APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-741 Advances in breeding of fruit crops APH-742 Advances in production of fruit crops APH-743 Advances in growth regulation of fruit crops APH-751 Advances in breeding of flower crops APH-752 Advances in flower production technology APH-754 Advances in landscape architecture APH-755 Advances in landscape architecture APH-756 APH-757 Doctoral Seminar-I APH-787 Doctoral Seminar-II 1(1-0-0)	APH-611	Growth and development of horticultural crops	3(2-0-1)
APH-690 Master Thesis Research 20 APH-730 Nutrition of horticultural crops 3(2-0-1) APH-731 Post harvest physiology of horticultural crops 3(2-0-1) APH-741 Advances in breeding of fruit crops 3(2-0-1) APH-742 Advances in production of fruit crops 3(2-0-1) APH-743 Advances in growth regulation of fruit crops 3(2-0-1) APH-751 Advances in breeding of flower crops 3(2-0-1) APH-752 Advances in flower production technology 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-788 Doctoral Seminar-I 1(1-0-0) APH-789 Doctoral Seminar-II 1(1-0-0)	APH-655	Protected floriculture	3(2-0-1)
APH-730 Nutrition of horticultural crops APH-731 Post harvest physiology of horticultural crops APH-741 Advances in breeding of fruit crops APH-742 Advances in production of fruit crops APH-743 Advances in growth regulation of fruit crops APH-751 Advances in breeding of flower crops APH-752 Advances in flower production technology APH-754 Advances in landscape architecture APH-755 Doctoral Seminar-I APH-788 Doctoral Seminar-II 3(2-0-1) 1(1-0-0) 1(1-0-0)	APH-656	Value addition in flowers	3(2-0-1)
APH-731 Post harvest physiology of horticultural crops 3(2-0-1) APH-741 Advances in breeding of fruit crops 3(2-0-1) APH-742 Advances in production of fruit crops 3(2-0-1) APH-743 Advances in growth regulation of fruit crops 3(2-0-1) APH-751 Advances in breeding of flower crops 3(2-0-1) APH-752 Advances in flower production technology 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-788 Doctoral Seminar-I 1(1-0-0) APH-789 Doctoral Seminar-II 1(1-0-0)	APH-690	Master Thesis Research	20
APH-741 Advances in breeding of fruit crops APH-742 Advances in production of fruit crops APH-743 Advances in growth regulation of fruit crops APH-751 Advances in breeding of flower crops APH-752 Advances in flower production technology APH-754 Advances in landscape architecture APH-788 Doctoral Seminar-I APH-789 Doctoral Seminar-II 3(2-0-1) 1(1-0-0)	APH-730	Nutrition of horticultural crops	3(2-0-1)
APH-742 Advances in production of fruit crops APH-743 Advances in growth regulation of fruit crops APH-751 Advances in breeding of flower crops APH-752 Advances in flower production technology APH-754 Advances in landscape architecture APH-788 Doctoral Seminar-I APH-789 Doctoral Seminar-II 3(2-0-1)	APH-731	Post harvest physiology of horticultural crops	3(2-0-1)
APH-743 Advances in growth regulation of fruit crops 3(2-0-1) APH-751 Advances in breeding of flower crops 3(2-0-1) APH-752 Advances in flower production technology 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-788 Doctoral Seminar-I 1(1-0-0) APH-789 Doctoral Seminar-II 1(1-0-0)	APH-741	Advances in breeding of fruit crops	3(2-0-1)
APH-751 Advances in breeding of flower crops 3(2-0-1) APH-752 Advances in flower production technology 3(2-0-1) APH-754 Advances in landscape architecture 3(2-0-1) APH-788 Doctoral Seminar-I 1(1-0-0) APH-789 Doctoral Seminar-II 1(1-0-0)	APH-742	Advances in production of fruit crops	3(2-0-1)
APH-752 Advances in flower production technology APH-754 Advances in landscape architecture APH-788 Doctoral Seminar-I APH-789 Doctoral Seminar-II 1(1-0-0)	APH-743	Advances in growth regulation of fruit crops	3(2-0-1)
APH-754 Advances in landscape architecture 3(2-0-1) APH-788 Doctoral Seminar-I 1(1-0-0) APH-789 Doctoral Seminar-II 1(1-0-0)	APH-751		3(2-0-1)
APH-788 Doctoral Seminar-I 1(1-0-0) APH-789 Doctoral Seminar-II 1(1-0-0)	APH-752	Advances in flower production technology	3(2-0-1)
APH-789 Doctoral Seminar-II 1(1-0-0)	APH-754	Advances in landscape architecture	3(2-0-1)
	APH-788	Doctoral Seminar-I	1(1-0-0)
	APH-789	Doctoral Seminar-II	1(1-0-0)
APH-790 Ph.D. Thesis Research 45	APH-790	Ph.D. Thesis Research	45

9. Plant Pathology M.Sc. Ag. (Plant Pathology) Core Courses (9 credits)				
APP-604	Principles of Plant Pathology		3(3-0-0)	
APP-605	Detection and Diagnosis of Plant Diseases		2(0-0-2)	
APP-606	Principles of Plant Disease Management		3(2-0-1)	
APP-600	Master's Seminar		1	
		Sub Total	9	
Basic Suppo	orting Courses (11 credits)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-	
BBB-599	Mycology		3(2-0-1)	
BHS 640	Storage and Retrieval of Scientific Information		1(1-0-0)	
BPS-661	Experimental Statistics		4(3-0-1)	
APP-611	Chemicals in Plant Disease Management		3(2-0-1)	
A11-011	Chemicals in Frant Disease Management	Sub Total	11	
		Sub Total	11	
	inor Courses (10 credits)		10	
	arch (20 credits) Master's Thesis Research		20	
APP-690	Master's Thesis Research	TD - 4 - 1	20	
		Total	50	
APP-704 APP-712 APP-713 APP-718 APP-788 APP-789	Molecular basis of Host Pathogen Interaction Ecology of Soil borne Plant Pathogens Disease Resistance in Plants Epidemiology and Forecasting of Plant Diseases Doctoral Seminar-I Doctoral Seminar-II	Sub Total	3(2-0-1) 3(2-0-1) 2(2-0-0) 3(2-0-1) 1 1	
APP- 607	Plant Biosecurity and Biosafety		2(2-0-0)	
	ourses (5 credits)		5	
	age (10 credits)		10	
Thesis Resea	arch (45 credits)			
APP-790	Ph.D. Thesis Research		45	
		Total	75	
Compulsory APP-604 APP-606	Courses for Minor for Other Discipline Principles of Plant Pathology Principles of Plant Disease Management		3(3-0-0) 3(2-0-1)	

APP-401	Introductory Plant Pathology	3(2-0-1)
APP-410	Diseases of Field Crops	3(2-0-1)
APP-430	Diseases of Horticultural Crops	3(2-0-1)
APP-507	Disease of Field and Medicinal Plants	3(2-0-1)
APP-508	Disease of Fruits, Plantation and Ornamental Crops	3(2-0-1)
APP-509	Disease of Vegetable and Spice Crops	3(2-0-1)
APP/ENT- 514	Insects Vector of Plant Viruses and other Pathogens	2(1-0-1)
APP-515	Biological Control of Plant Diseases	3(2-0-1)
APP-516	Integrated Disease Management	3(2-0-1)
APP-517	Mushroom Production Technology	3(2-0-1)
APP-519	Post Harvest Disease	3(2-0-1)
APP/ENT-520	Plant Quarantine	2(2-0-0)
APP-600	Master's Seminar	1
APP-601	Special Problem	1
APP-602	Plant Virology	3(2-0-1)
APP-603	Plant Bacteriology	3(2-0-1)
APP-604	Principles of Plant Pathology	3(3-0-0)
APP-606	Principles of Plant Disease Management	3(2-0-1)
APP-607	Plant Biosecurity and Biosafety	2(2-0-0)
APP-611	Chemicals in Plant Disease Management	3(2-0-1)
APP-616	Advanced Plant Virology	3(2-0-1)
APP-617	Advanced Bacteriology	3(2-0-1)
APP-618	Principles and Procedures of Certification	1(1-0-0)
APP-622	Techniques in Phytonematology	1(0-0-1)
APP-624	Cultural & Chemical Control of Plant Parasitic Nematodes	2(1-0-1)
APP-630	Phytonematology	2(1-0-1)
APP-690	Master's Thesis Research	20
APP-704	Molecular Basis of Host Pathogen Interaction	3(2-0-1)
APP-710	Seed Health Technology	3(2-0-1)
APP-712	Ecology of Soilborne Plant Pathogen	3(2-0-1)
APP-713	Disease Resistance in Plants	2(2-0-0)
APP-718	Epidemiology and Forecasting of Plant Diseases	3(2-0-1)
APP-788	Doctoral Seminar I	1
APP-789	Doctoral Seminar II	1
APP-790	Ph.D. Thesis Research	45

APS-500 APS-516 APS-517 APS-518 APS-600	soil Science) es (14 credits) Soil Physics Soil Fertility and Fertilizer Use Soil Chemistry Soil Biology and Biochemistry Master's Seminar	Sub Total	3(2-0-1) 4(3-0-1) 3(2-0-1) 3(2-0-1) 1 14	
Basic Suppo BPS-661	rting Courses (7 credits) Experimental Statistics		4(3-0-1)	
BPC-641	Physical Chemistry		3(2-0-1)	
Optional/ M	inor Courses (9 credits) arch (20 credits)	Sub Total	7 9	
APS-690	Master's Thesis Research	Total	20 50	
Ph.D. (Soil S	Science)			
Core Course				
APS-710 APS-720 APS-730	Advances in Soil Physics Advances in Soil Fertility Biochemistry of Soil Organic matter		2(2-0-0) 2(2-0-0) 2(2-0-0)	
APS-620 APS-788	Land degradation and restoration Doctoral Seminar-I		1(1-0-0) 1	
APS-789	Doctoral Seminar-II	Sub Total	1 9	
	rting Courses (6 credits)			
BPC-614 BPS-662	Spectroscopic and chromatographic techniques Advanced Experimental design	Sub Total	3(2-0-1) 3(2-0-1) 6	
Optional Courses (5 credits) 5				
Minor Courses (10 credits)			10	
Thesis Resea	arch (45 credits) Ph.D. Thesis Research		45	
111 5-770	Th.D. Thesis Research	Total	75	
	Courses for Minor for Other Discipline			
APS-500 Soil Physics APS-515 Analytical techniques and Instrumental methods in Soil and		3(2-0-1) 2(0-0-2)		
APS-516	Plant analysis Soil Fertility and Fertilizer use		4(3-0-1)	

APS-401	Basics of Soil Science	3(2-0-1)
APS-430	Soil Survey	3(2-0-1)
APS-468	Soil Testing & Fertilizer Recommendation	2(1-0-1)
APS-500	Soil Physics	3(2-0-1)
APS-515	Analytical Techniques and Instrumental methods in soil and	2(0-0-2)
	Plant Analysis	
APS-516	Soil Fertility and Fertilizer Use	4(3-0-1)
APS-517	Soil Chemistry	3(2-0-1)
APS-518	Soil Biology and Biochemistry	3(2-0-1)
APS-519	Soil Mineralogy, Genesis, Classification and Survey	3(2-0-1)
APS-580	Soil Erosion and Conservation	3(3-0-0)
APS-600	Master's Seminar	1(0-0-1)
APS-601	Special Problem	2(0-2-2)
APS-610	Management of Problematic Soils and Waters	3(2-0-1)
APS-620	Land degradation and restoration	1(1-0-0)
APS-640	Soil-Plant-Microbe relationship	2(2-0-1)
APS-690	Master's Thesis Research	20
APS-705	Remote Sensing and GIS Techniques for Soil and Crop Studies	3(2-0-1)
APS-710	Advances in Soil Physics	2(2-0-0)
APS-715	Mineralogy of Soil	3(2-0-1)
APS-720	Advances in Soil Fertility	2(2-0-0)
APS-730	Biochemistry of Soil Organic matter	2(2-0-0)
APS-788	Doctoral Seminar-I	1
APS-789	Doctoral Seminar-II	1
APS-790	Ph.D. Thesis Research	45

11. Vegetal	ole Science etable Science)			
, 0	ses (18 credits)			
APV 502	Breeding of Self-pollinated Vegetable Crops		3(2-0-1)	
APV 504	Breeding of Cross-pollinated Vegetable Crops		3(2-0-1)	
APV 531			3(2-0-1)	
APV 532	Production Technology of Warm Season Vegetabl		3(2-0-1)	
APV 534	Production Technology of Spices	1	2(2-0-0)	
APV 535	Seed Production Technology of Vegetable Crops		3(2-0-1)	
APV 600	Master's Seminar		1	
		Sub Total	18	
Basic Supp	orting Courses (4 credits)			
BPS 661	Experimental Statistics		4(3-0-1)	
Optional/ N	Inor Courses (8 credits)		8	
	earch (20 credits)		-	
APV 690	Master's Thesis Research		20	
		Total	50	
Ph. D. (Veg	etable Science)			
	ses (11 credits)			
APV 721	Advances in Vegetable Production		3(2-0-1)	
APV 722	Advances in Breeding of Vegetable Crops		3(2-0-1)	
APV 723	Protected Cultivation of Vegetable Crops		3(2-0-1)	
APV 788	Doctoral Seminar-I		1	
APV 789	Doctoral Seminar-II		1	
		Sub Total	11	
Basic Supp	orting Courses (6 credits)			
BBC 501	General Biochemistry I		3(3-0-0)	
BMB 650	Crop Biotechnology		3(2-0-1)	
		Sub Total	6	
Optional Courses (3 credits)		3		
Minor Courses (10 credits)		10		
Thesis Research (45 credits)				
APV 790	Ph.D. Thesis Research		45	
		Total	75	

APV-412	Vegetable Crops	3(2-0-1)
APV 502	Breeding of Self-pollinated Vegetable Crops	3(2-0-1)
APV 504 APV 506 APV 507 APV 508 APV 531 APV 532	Breeding of Cross-pollinated Vegetable Crops Systematics of Vegetable Crops Production Technology of Un-exploited Vegetable Crops Organic Vegetable Production Technology Production Technology of Cool Season Vegetable Crops Production Technology of Warm Season Vegetable Crops	3(2-0-1) 2(1-0-1) 2(1-0-1) 2(1-0-1) 3(2-0-1) 3(2-0-1)
APV 534 APV 535 APV 536	Production Technology of Spices Seed Production Technology of Vegetable Crops Biodiversity and Conservation of Vegetable Crops	2(2-0-0) 3(2-0-1) 2(1-0-1)
APV 600 APV 601 APV 606 APV 690	Masters Seminar Special Problem Abiotic Stress Management in Vegetable Crops Master's Thesis Research	1 1-2 3(2-0-1) 20
APV 721 APV 722 APV 723 APV 788 APV 789	Advances in Vegetable Production Advances in Breeding of Vegetable Crops Protected Cultivation of Vegetable Crops Doctoral Seminar-I Doctoral Seminar-II	3(2-0-1) 3(2-0-1) 3(2-0-1) 1
APV 790	Ph.D. Thesis Research	45