



AMRUTVAHINI'S SHETI AND SHIKSHAN VIKAS SANSTHA'S

SAHAKARMAHARSHI BHAUSAHEB THORAT COLLEGE OF AGRICULTURE, AMRUTNAGAR

TAL. SANGAMNER, DIST. AHMEDNAGAR

(AFFILIATED TO MAHATMA PHULE KRISHI VIDYAPEETH, RAHURI)



Semester Wise Course Summary

Sem	Core courses	Common Courses	Remedial Courses	Non-gradial Courses	Elective Courses	RAWE	ELP	Total
I	17	--	3/5	4	--	--	--	24
II	19	2	--	3	--	--	--	24
III	19	5	--	--	--	--	--	24
IV	21	--	--	1	3	--	--	25
V	19	2	--	--	3	--	--	24
VI	20	--	--	--	3	--	--	23
VII	--	--	--	--	--	20	--	20
VIII	--	--	--	--	--	--	20	20
Total	115	9	3/5	8	9	20	20	184/186



Semester Wise Course Plan

Semester I

Course No.	Courses	Credit		
		T	P	Total
A)	Core courses			
AGRO 111	Fundamentals of Agronomy-I	1	1	2
AGRO 112	Introductory Agro-meteorology and Climate Change	1	1	2
AHDS 111	Livestock Production & Management	1	1	2
EXTN 111	Rural Sociology & Educational Psychology	2	0	2
HORT 111	Fundamentals of Horticulture	1	1	2
LANG 111	Comprehension & Communication Skills in English	1	1	2
MIBO 111	Introductory Microbiology	1	1	2
SSAC 111	Fundamentals of Soil Science	2	1	3
	Total Core Courses	10	7	17
B)	Remedial Courses (3 or 5 credit)			0
AGH 111	Agricultural Heritage ^{*1}	1	0	1
BIO 111	Introductory biology ^{*2}	1	1	2
MATH 111	Elementary Mathematics ^{*3}	1	1	2
	Sub total	3/4	0/1	3/5
C)	Non-Gradial Courses (4 credits)			0
HVE 111	Human Values & Ethics	1	0	1
DEG 111	Democracy, Elections and Good Governance	1	0	1
NCC 111/ NSS 111	NCC/ NSS **	0	1	1
PHEY 111	Physical Education and Yoga	0	1	1
	Sub Total	2	2	4
	Total Credits (A+B+C)	15/16	9/10	24/26

Remedial Courses (3/5 credit)

** Non-Gradial Courses (4 Credits)

*¹Compulsory to all students

*² Students who have Biology in XII std are exempted

*³Students who have MATH in XII std are exempted

** NCC or NSS



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Semester II

Course No.	Courses	Credit		
		T	P	Total
A)	Core Course			
AGRO-123	Fundamentals of Agronomy-II	1	1	2
BOT 121	Fundamentals of Crop Physiology	1	1	2
ECON 121	Fundamentals of Agricultural Economics	2	0	2
ENGG 121	Soil and Water Conservation Engineering	1	1	2
ENTO-121	Fundamentals of	1	1	2
EXTN 122	Fundamentals of Agricultural Extension Education	2	1	3
GPB 121	Fundamentals of Genetics	2	1	3
PATH 121	Fundamentals of Plant Pathology	2	1	3
	Total	12	7	19
B)	Non-Gradiial course			
FRST 121	Introduction to Forestry	1	1	2
EDNT 121	Educational Tour*	0	1	1
	Subtotal	1	2	3
C)	Common Course			
EXTN 123	Communication Skills and personality Developments	1	1	2
	Subtotal	1	1	2
	Total Credits (A+B+C)	14	10	24



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Semester III

Course No.	Courses	Credit		
		T	P	Total
A)	Core Course			
AGRO234	Crop Production Technology-I (Kharif crops)	1	1	2
AGRO 235	Rainfed Agriculture and Watershed Management	1	1	2
BIOCHM 231	Fundamentals of plant biochemistry and biotechnology	2	1	3
ENGG 232	Farm Machinery and Power	1	1	2
ENTO 232	Insect Ecology and Integrated pest Management	1	1	2
GPB 232	Fundamentals of Plant Breeding	1	1	2
HORT 232	Production Technology for Vegetables and Spices	1	1	2
PATH 232	Principles of Integrated Disease Management	1	1	2
STAT 231	Statistical Methods	1	1	2
	Subtotal	10	9	19
B)	Common Courses			
COMP 231	Agri- Informatics	1	1	2
ESDM 231	Environmental Studies and Disaster Management	2	1	3
	Subtotal	3	2	5
	Total Credits (A+B)	13	11	24



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Semester IV

Course No.	Courses	Credit		
		T	P	Total
A)	Core Course			
AGRO 246	Crop Production Technology-II (Rabi crops)	1	1	2
AGRO 247	Farming System and Sustainable Agriculture	1	0	1
AGRO 248	Principles of Organic Farming	1	1	2
AHDS 242	Livestock Breeding and Nutrition	1	1	2
ECON 242	Agriculture Finance and Cooperation	2	1	3
ENGG 243	Renewable Energy and Green Technology	1	1	2
ENTO 243	Pest of Horticultural Crops and their Management	1	1	2
GPB 243	Principles of Seed Technology	1	2	3
HORT 243	Production Technology for Fruit and Plantation Crops	1	1	2
SSAC 242	Problematic Soils and their Management	1	1	2
	Subtotal	11	10	21
B)	Elective Courses (3 credits)			
ELE BOT 242	Micropropagation Technologies	1	2	3
ELE EXTN 244	Agricultural Journalism	2	1	3
ELE GPB 244	Commercial Plant breeding	1	2	3
ELE PATH 243	Bio-fertilizers, Bio-control Agents and Bio-pesticides	2	1	3
	Subtotal Elective	1	2	3
C)	Non-Gradial Course			
EDNT 242	Study Tour*	0	1	1
	Total Credits (A+B+C)	12	13	25



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Semester V

Course No.	Courses	Credit		
		T	P	Total
A)	Core Course			
AGRO359	Practical Crop Production-I (Kharif crops)	0	1	1
AHDS 353	Technology of Milk and Milk Products.	1	1	2
BOT 353	Intellectual Property Right	1	0	1
ECON 353	Agricultural Marketing Trade and Prices	2	1	3
ENTO 354	Pests of Crops and Stored Grain and their Management- I	1	1	2
GPB 355	Crop Improvement – I (Kharif Crops)	1	1	2
HORT 354	Production Technology for OrnamentalCrops, MAP and Landscaping	1	1	2
PATH 354	Diseases of Field and Horticultural Cropsand their Management	2	1	3
SSAC 353	Manures, Fertilizers and Soil FertilityManagement	2	1	3
	Subtotal	11	8	19
B)	Common Courses			
EXTN 355	Entrepreneurship Development and Business Communication	1	1	2
	Subtotal	1	1	2
C)	Elective Course (3 credits)			
AGRO3510	Weed Management	2	1	3
ELE ECON 354	Agribusiness Management	2	1	3
ELE FST 351	Food Safety and Standards	2	1	3
ELE HORT 355	Protected Cultivation of Horticultural Crops	2	1	3
	Subtotal	2	1	3
	Total (A+B+C)	14	10	24



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Semester VI

Course No.	Courses	Credit		
		T	P	Total
A)	Core Course			
AGRO 3611	Practical Crop Production-II(Rabi crops)	0	1	1
AGRO 3612	Geo-informatics and Nano-technology and Precision Farming	1	1	2
AHDS 364	Sheep Goat and Poultry Production	1	1	2
ECON 365	Farm Management, Production and Resource Economics	1	1	2
ENGG 364	Protected Cultivation and secondary Agriculture	1	1	2
ENTO 365	Management of Beneficial Insects	1	1	2
FST 362	Principles of Food Science and Nutrition	2	0	2
GPB 366	Crop Improvement – II (Rabi crops)	1	1	2
HORT 366	Post-harvest Management and Value Addition of Fruits and Vegetables	1	1	2
PATH 365	Diseases of Field and Horticultural Crops and their Management-II	2	1	3
	Subtotal	11	9	20
B)	Elective courses			
ELE AGM 361	System Stimulation and Agro-advisory	2	1	3
ELE HORT 368	Hi tech Horticulture	2	1	3
ELE HORTI367	Landscaping	2	1	3
ELE SSAC 364	Agrochemicals	2	1	3
	Subtotal	2	1	3
	Total (A+B)	13	10	23



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Semester VII

Student READY Programme

(Rural and Entrepreneurship Awareness Development Yojana)

RAWE & AIA Programme

Rural Agricultural Work Experience and Agro-Industrial Attachment

Sr. No.	Activities	Number of weeks	Credits
1	General orientation and on campus training by different faculties	1	14
2	Village attachment/ Unit attachment in Univ./ College. KVK/ Research Station	8	
3	Agro-Industrial Attachment	10	06
4	Project Report Preparation, Presentation and Evaluation	1	
Total weeks for RAWE and AIA		20	20



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Semester VIII

Sr. No.	Course No.	Credits	Course Title
1	ELM AGRO4813	10(0+10)	Organic Farming Production Technology
2	ELM AGRO 4814	10(0+10)	Commercial production of organic inputs
3	ELM AHDS 485	10(0+10)	Poultry production
4	ELM AHDS 486	10(0+10)	Processing of Milk and Milk Product
5	ELM BOT 481	10(0+10)	Seed Production and Technology
6	ELM BOT 484	10(0+10)	Tissue Culture Techniques
7	ELM ENGG 485	10(0+10)	Natural Resources Management
8	ELM ENTO 486	10(0+10)	Mass Production of Bio-agents and Bio-pesticides
9	ELM ENTO 487	10(0+10)	Commercial Beekeeping
10	ELM ENTO 488	10(0+10)	Silkworm cocoon production technology
11	ELM FST 483	10(0+10)	Food Processing
12	ELM HORT 489	10(0+10)	Commercial Horticulture
13	ELM HORT 4810	10(0+10)	Floriculture and Landscaping Gardening
14	ELM HORT 4811	10(0+10)	Nursery Management of Horticultural Crops
15	ELM HORT 4812	10(0+10)	Commercial Vegetable Production
16	ELM HORT 4813	10(0+10)	Protected Cultivation of Flowers and Vegetables
17	ELM HORT 4814	10(0+10)	Post-harvest Management and Value Additions of Horticultural Crops
18	ELM PATH 486	10(0+10)	Mushroom Cultivation Technology
19	ELM PATH 487/ ELM SSAC 487	10(0+10)	Biofertilizer Production Technology
20	ELM SSAC 485	10(0+10)	Soil, Water, Plant and Fertilizer Analysis
21	ELM SSAC 486	10(0+10)	Agricultural Waste Management

This program will be undertaken by the students preferably during the eighth semester for a total duration of **24 weeks** with a weightage of **0+20** credit hours. The students will register for any of two modules, listed as above, of **0+10** credit hours each.