D. Y. PATIL AGRICULTURE AND TECHNICAL UNIVERSITY, TALSANDE, KOLHAPUR SCHOOL OF AGRICULTURE

SYLLABUS STRUCTURE

B. Sc. (AGRICULTURE)

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DISTRIBUTION OF SUBJECT GROUPS

- 1. Core Courses (CC)
- 2. General Courses (GC)
- 3. Common Courses (COC)
- 4. Elective Courses (EC)
- 5. Remedial Courses (RC)
- 6. Non Gradual Courses (NGC)
- 7. RAWE & AIA (RAWE)
- 8. Experiential Learning Module (ELM)

SYLLABUS STRUCTURE B. Sc. (AGRICULTURE)

DISTRIBUTION OF COURSES IN SUBJECT GROUPS

1) CORE COURSES (CC) a) Agronomy

Sr. Course Corse	Name of Course			cheme ek			
No.	Code	Type	Name of Course	L	Т	P	Credits
1.			Fundamentals of Agronomy-I	1	0	2	2
2.			Introductory Agro-meteorology and Climate change	1	0	2	2
3.			Fundamentals of Agronomy-II	1	0	2	2
4.			Crop Production Technology-I (Kharif crops)	1	0	2	2
5.			Rainfed Agriculture and Watershed Management	1	0	2	2
6.			Crop Production Technology-II (Rabi crops)	1	0	2	2
7.			Farming System and Sustainable Agriculture	1	0	0	1
8.			Principles of Organic Farming	1	0	2	2
9.			Practical Crop Production-I (Kharif crops)	0	0	2	1
10.			Practical Crop Production II (Rabi crops)	0	0	2	1
11.			Geo-informatics and Nano- technology and Precision Farming	1	0	2	2
				To	tal Cr	edits	19

b) Genetics and Plant Breeding

Sr. No. Cours	Course Code	Corse Type Name	Name of Course	Teaching Scheme per week					
	Course Coue		Name of Course	L	Т	P	Credits		
1.			Fundamentals of Genetics	2	0	2	3		
2.			Fundamentals of Crop Physiology	1	0	2	2		
3.			Fundamentals of Plant Breeding	1	0	2	2		
4.			Principles of Seed Technology	1	0	4	3		
5.			Crop Improvement – I (Kharif Crops)	1	0	2	2		
6.			Intellectual Property Right	1	0	0	1		
7.			Crop Improvement – II (Rabi crops)	1	0	2	2		
	Total Credits								

c) Horticulture

Sr.	Course Code Corse	Corse	Name of Course	Teaching Scheme per week				
No.	Course Coue	Type	Name of Course	L	Т	P	Credits	
1.			Fundamentals of Horticulture	1	0	2	2	
2.			Production Technology for Vegetables and Spices	1	0	2	2	
3.			Production Technology for Fruit and Plantation Crops	1	0	2	2	
4.			Production Technology for Ornamental Crops, MAP and Landscaping	1	0	2	2	
5.			Post-harvest Management and Value Addition of Fruits and Vegetables	1	0	2	2	
	·	Tot	tal Cr	edits	10			

d) Agricultural Entomology

Sr. Course Con		Name of Course	Teaching Scheme per week							
No.	Code	Type	rame of Course	L	T	P	Credits			
1.			Fundamentals of Entomology	1	0	2	2			
2.			Insect Ecology and Integrated pest Management	1	0	2	2			
3.			Pest of Horticultural Crops and their Management	1	0	2	2			
4.			Pests of Crops and Stored Grain and their Management	1	0	2	2			
5.			Management of Beneficial Insects	1	0	2	2			
	Total Credits 10									

e) Plant Pathology

Sr.	Course	Corse	Name of Course		Т		ng Scheme · week
No.	Code	Type	rame of course		T	P	Credits
1.			Introductory Microbiology	1	0	2	2
2.			Fundamentals of Plant Pathology	2	0	2	3
3.			Principles of Integrated Disease Management	1	0	2	2
4.			Diseases of Field and Horticultural Crops and their Management – I	2	0	2	3
5.			Diseases of Field and Horticultural Crops and their Management-II	2	0	2	3
		•		Tota	ıl Cr	edits	13

f) Soil Science & Agriculture Chemistry

Sr.	Course Code Corse	Name of Course	Teaching Scheme per week					
No.	Course Couc	Type	Name of Course	L	T	P	Credits	
1.			Fundamentals of Soil Science	2	0	2	3	
2.			Problematic Soils and their Management	1	0	2	2	
3.			Manures, Fertilizers and Soil Fertility Management	2	0	2	3	
Total Credits								

g) Agriculture Economics

Sr. No.	Course Code	Corse Type	Name of Course			hing Sc er wee	Scheme eek				
				L	Т	P	Credits				
1.			Fundamentals of Agricultural Economics	2	0	0	2				
2.			Agriculture Finance and Co operation	2	0	2	3				
3.			Agricultural Marketing Trade and Prices	2	0	2	3				
4.			Farm Management, Production and Resource Economics	1	0	2	2				
	Total Credits										

h) Agricultural Extension Education

Sr.			Teaching Scheme per week						
No.	Course Code	Type	rame of Course	L	T	P	Credits		
1.			Rural Sociology & Educational Psychology	2	0	0	2		
2.			Fundamentals of Agricultural Extension Education	2	0	2	3		
Total Credits									

i) Agriculture Engineering

Sr.	Course Code	Corse	Name of Course	Teaching Scheme per week						
No.	Course Code	Type	Name of Course	L	Т	P	Credits			
1.			Soil and Water Conservation Engineering	1	0	2	2			
2.			Farm Machinery and Power	1	0	2	2			
3.			Renewable Energy and Green Technology	1	0	2	2			
4.			Protected Cultivation and secondary Agriculture	2	0	2	2			
	Total Credits									

j) Animal Husbandry and Dairy Science

Sr.	Course Code	Corse	Name of Course	Teaching Scheme per week					
No.	Course Code	Type	Name of Course	L	Т	P	Credits		
1.			Livestock Production and Management	1	0	2	2		
2.			Livestock Breeding and Nutrition	1	0	2	2		
3.			Technology of Milk and Milk Products	1	0	2	2		
4.			Sheep, Goat and Poultry Production	1	0	2	2		
Total Credits									

2) GENERAL COURSES (GC)

Sr.	Sr. Course Code		le Corse Name of Course		Teacl p			
No.	Course Code	Type	Name of Course	L	Т	P	Credits	
1.			Comprehension & Communication Skills in English	1	0	2	2	
2.			Statistical Methods	1	0	2	2	
3.			Fundamentals of Plant Biochemistry and Biotechnology	2	0	2	3	
4.			Principles of Food Science and Nutrition	2	0	0	2	
Total Credits								

3) COMMON COURSES (COC)

Sr.	Course Code	Corse	Name of Course	Teaching Scheme per week							
No.	Course Couc	Type	Name of Course	L	T	P	Credits				
1.			Environmental Studies and Disaster Management	2	0	2	3				
2.			Communication skills and personality Development	1	0	2	2				
3.			Entrepreneurship Development and Business Management	1	0	2	2				
4.			Agri-Informatics	1	0	2	2				
				,	Total C	redits	09				

4) ELECTIVE COURSES (EC)

Sr.	Course Code	Corse Type	Name of Course		Teaching Scheme per week				
No.	Course Code	Type	Name of Course	L	Т	P	Credits		
1.			Weed Management	2	0	2	3		
2.			Commercial Plant breeding	1	0	4	3		
3.			Micropropogation Technologies	1	0	4	3		
4.			Protected cultivation	2	0	2	3		
5.			Landscaping	2	0	2	3		
6.			Hi-tech Horticulture	2	0	2	3		
7.			Agribusiness Management	2	0	2	3		
8.			Agricultural Journalism	2	0	2	3		
9.			Bio-fertilizers, Bio-control Agents and Bio-pesticides	2	0	2	3		
10.			Agrochemicals	2	0	2	3		
11.			Food Safety and Standards	2	0	2	3		
12.			System Stimulation and Agroadvisory	2	0	2	3		
				,	Total C	redits	09		

5) REMEDIAL COURSES (RC)

Sr. No.	Course Code	Corse	Name of Course		Teaching Scheme per week						
No.	Course Code	Type	Name of Course	L	T	P	Credits				
1.			Agricultural Heritage*	1	0	0	1				
2.			Elementary Mathematics **	1	0	2	2				
3.			Introductory biology ***	1	0	2	2				
				r	Total C	redits	03/05				

6) NON GRADUAL COURSES (NGC)

Sr.	Course Code	Corse	Name of Course		Teaching Scheme per week				
No.	Course Couc	Type	Name of Course	T	P	Credits			
1.			Human Values & Ethics	1	0	0	1		
2.			Democracy, Elections and Good Governance	1	0	0	1		
3.			NCC/ NSS	0	0	2	1		
4.			Physical Education and Yoga	0	0	2	1		
5.			Introduction to Forestry	1	0	2	2		
6.			Educational Tour	0	0	2	1		
7.			Educational Tour	0	0	1			
				r	Total C	redits	08		

^{*}Compulsory to all students

** Students who have Biology in XII std. are exempted

***Students who have MATH in XII std. are exempted

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SUMMARY OF DISTRIBUTION OF COURSES IN ALL SEMESTER

Sr. No.	Category	No. of Subjects in Each Category	No. of Credits	Suggested Breakup of Credits by ICAR
1	CORE COURSES (CC)	50	108	108
2	GENERAL COURSES (GC)	04	09	09
3	COMMON COURSES (COC)	04	05	05
4	ELECTIVE COURSES (EC)	03	09	09
5	REMEDIAL COURSES (RC)	03	3/5	3/5
6	NON GRADUAL COURSES (NGC)	07	08	08
7	RAWE & AIA	01	20	20
8	EXPERIMENTAL LEARNING MODULE (ELM)	02	20	20
	Total	74	181/184	181/184

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Semester wise Distribution of Courses

No. of								
Courses	I	II	III	IV	V	VI	VII	VIII
1	Agricultural Heritage	Fundamentals of Agronomy-II	Crop Production Technology-I (Kharif crops)	Crop Production Technology II (Rabi Crops)	Practical Crop Production I (Kharif Crops)	Practical Crop Production II (Rabi Crops)		
2	Introductory biology	Fundamentals of Crop Physiology	Rainfed Agriculture and Watershed Management	Farming System & Sustainable Agriculture	Technology of Milk and Milk Products	Geo-Informatics & Nano-Technology & Precision Farming		
3	Elementary Mathematics	Fundamentals of Agricultural Economics	Fundamentals of Plant biochemistry and Biotechnology	Principles of Organic Farming	Intellectual Property Right	Sheep, Goat & Poultry Production	RAWE & AIA	RAWE & AIA
4	Fundamentals of Agronomy-I	Soil and Water Conservation Engineering	Farm Machinery and Power	Livestock Breeding and Nutrition	Agricultural Marketing Trade & Prices	Farm Management, Production & Resource Economics		
5	Introductory Agro meteorology and Climate change	Fundamentals of Entomology	Insect Ecology & Integrated Pest Management	Agriculture Finance & Co operation	Pest of Crops & Stored Grain & their Management	Protected Cultivation and Secondary Agriculture		
6	Livestock Production & Management	Fundamentals of Agricultural Extension Education	Fundamentals of Plant Breeding	Renewable energy and Green Technology	Crop Improvement I (Kharif Crops)	Management of Beneficial Insects		
7	Rural Sociology & Educational Psychology	Fundamentals of Genetics	Production Technology for Vegetables and Spices	Pest of Horticultural Crops & their Management	Production Technology for Ornamental Crops, MAP and Landscaping	Principles of Food Science & Nutrition	ELP Modules (01)	ELP Modules (02)
8	Fundamentals of Horticulture	Fundamentals of Plant Pathology	Principles of Integrated Disease Management	Principles of Seed Technology	Diseases of Field and Horticultural Crops & their Management I	Crop Improvement II (Rabi Crops)		

15	Physical Education and Yoga	-	-	Educational Tour II	-	-	
14	NCC/ NSS	-	-	OR Bio fertilizers, Bio- Control agents & Bio Pesticides	Protected Cultivation		
13	* Democracy, Elections and Good Governance	-	-	OR Commercial Plant Breeding	Food Safety & Standards OR	Landscaping OR Agrochemicals	
12	Human Values & Ethics	-	-	Agriculture Journalism	Management OR	Hi Tech Horticulture OR	
11	Fundamentals of Soil Science	Educational Tour I	Environmental Studies and Disaster Management	Micropropagation Technologies OR	Weed Management OR Agribusiness	System Stimulation & Agro Advisory OR	
10	Introductory Microbiology	Introduction to Forestry	Agri-Informatics	Problematic soils and their Management	Entrepreneurship Development & Business Communication	Diseases of Field and Horticultural Crops & their Management II	
9	Comprehension & Communication Skills in English	Communication Skills and personality Developments	Statistical Methods	Production Technology for fruit and Plantation crops	Manures, Fertilizers and Soil Fertility Management	Post Harvest Management & Value Addition of Horticultural Crops	

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SEMESTERWISE CREDITS & MARKS

SEM	CREDITS	NO. OF SUBJECT	TOTAL MARKS
I	24	14	
II	24	11	
III	24	11	
IV	25	12	
V	24	11	
VI	23	11	
VII	20	02	
VIII	20	02	
TOTAL	184/186	74	

Note:* Democracy, Election & Good Governance subject counted in I SEM.

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SCHOOL OF AGRICULTURE

SCHEME OF TEACHING AND EXAMINATION

FIRST YEAR B. Sc. (AGRICULTURE)

SEMESTER- I

				Tea		g Sch week	neme	Total Marks	ks Evaluation Scheme (Marks)					Evaluation Sahama (Maylig)							
Sr.	Course	Corse	Name of Course		<u> </u>				Theory												
No.	Code	Туре		L	Т	P	Cre dits		Scheme	Moy Min		Scheme	Max marks	Min. Passing							
1			Agricultural Heritage	1	0	0	1					-	-	-							
2			Introductory biology	1	0	2	2														
3			Elementary Mathematics	1	0	2	2														
4			Fundamentals of Agronomy-I	1	0	2	2														
5			Introductory Agro meteorology and Climate change	1	0	2	2														
6			Livestock Production & Management	1	0	2	2														
7			Rural Sociology & Educational Psychology	2	0	0	2														
8			Fundamentals of Horticulture	1	0	2	2														
9			Comprehension & & Communication Skills in English	1	0	2	2														
10			Introductory Microbiology	1	0	2	2														
11			Fundamentals of Soil Science	2	0	2	3														

	Total	13	0	18	22					
12	Human Values & Ethics	1	0	0	1			-	-	-
13	Democracy, Elections and Good Governance	1	0	0	1			-	-	-
14	NCC/ NSS	0	0	2	1	-	1			
15	Physical Education and Yoga	0	0	2	1	-	-			

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation

SEE: Semester End Evaluation

IPE: Internal Practical Evaluation

D. Y. PATIL AGRICULTURE AND TECHNICAL UNIVERSITY, TALSANDE, KOLHAPUR SCHOOL OF AGRICULTURE SCHEME OF TEACHING AND EXAMINATION FIRST YEAR B. Sc. (AGRICULTURE) SEMESTER- II

				T	Teaching Scheme per week Total		TD (1)	Total Evaluation Scheme (Marks)						
Sr.	Course	Corse	Name of Course							Theory			Practi	cal
No.	Code	Type		L	T	P	Credits	Marks	Scheme	May Min		Scheme	Max marks	Min. Passing
1			Fundamentals of Agronomy-II	1	0	2	2							
2			Fundamentals of Crop Physiology	1	0	2	2							
3			Fundamentals of Agricultural Economics	2	0	0	2							
4			Soil and Water Conservation Engineering	1	0	2	2							
5			Fundamentals of Entomology	1	0	2	2							
6			Fundamentals of Agricultural Extension Education	2	0	2	3							
7			Fundamentals of Genetics	2	0	2	3							
8			Fundamentals of Plant Pathology	2	0	2	3							
9			Communication Skills and personality Developments	1	0	2	2							
			Total	13	0	16	21							

10		Introduction to Forestry	1	0	2	2				
11		Educational Tour	0	0	2	1	-	-		

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation

SEE: Semester End Evaluation

IPE: Internal Practical Evaluation

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SCHEME OF TEACHING AND EXAMINATION SECOND YEAR B. Sc. (AGRICULTURE)

SEMESTER- III

C	Canna	Cama		T		ing S er we	Scheme eek	Total	Evaluation Scheme (Marks)					
Sr. No.	Course Code	Corse	Name of Course					Marks		Theory		Practical		
110.	Coue	Type		L	Т	P	Credits	Marks	Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Crop Production Technology-I (Kharif crops)	1	0	2	2							
2			Rainfed Agriculture and Watershed Management	1	0	2	2							
3			Fundamentals of Plant biochemistry and Biotechnology	1	0	2	2							
4			Farm Machinery and Power	1	0	2	2							
5			Insect Ecology and Integrated pest Management	1	0	2	2							
6			Fundamentals of Plant Breeding	1	0	2	2							
7			Production Technology for Vegetables and Spices	1	0	2	2							
8			Principles of Integrated Disease Management	1	0	2	2							
9			Statistical Methods	1	0	2	2							
10			Agri- Informatics	1	0	2	2							

11	and		Studies Disaster	2	0	2	3				
	_	otal		12	0	22	23				

2) SEE will be conducted for 100 marks and converted to 50 marks.

3) *Environmental Studies project evaluation and theory examination will be conducted at the end of the year (along with Sem IV end examination)

CSE: Continuous Semester Evaluation SEE: Semester End Evaluation IPE: Internal Practical Evaluation

EPE: External Practical Examination IOE: Internal Oral Evaluation EOE: External Oral Examination

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SCHOOL OF AGRICULTURE

SCHEME OF TEACHING AND EXAMINATION SECOND YEAR B. Sc. (AGRICULTURE)

SEMESTER- IV

				Т		ning S	Scheme eek	T	Evaluation Scheme (Marks)					
Sr.	Course	Corse	Name of Course					Total		Theory			Pra	ctical
No.	Code	Type		L	T	P	Credits	Marks	Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Crop Production Technology-II (Rabi crops)	1	0	2	2							
2			Farming System and Sustainable Agriculture	1	0	0	1							
3			Principles of Organic Farming	1	0	2	2							
4			Livestock Breeding and Nutrition	1	0	2	2							
5			Agriculture Finance and Cooperation	2	0	2	3				-			
6			Renewable Energy and Green Technology	1	0	2	2							
			Pest of Horticultural				_							
7			Crops and their Management	1	0	2	2							
8			Principles of Seed	1	0	4	3							
8			Technology	1	0	4	3							
9			Production Technology for Fruit and Plantation Crops	1	0	2	2							
10			Problematic Soils and their Management	1	0	2	2							

11	Micropropogation Technologies	1	0	4	3				
12	Agricultural Journalism	2	0	2	3				
13	Commercial Plant breeding	1	0	4	3				
14	Bio-fertilizers, Bio- control Agents and Bio- pesticides	2	0	2	3				
	Total	13	0	22	24				
15	Study Tour	0	0	2	1				

2) SEE will be conducted for 100 marks and converted to 50 marks.

3) * Environmental Studies project evaluation & theory examination will be conducted at the end of the year (along with Sem IV end examination)

CSE: Continuous Semester Evaluation EPE: External Practical Examination

Examination

SEE: Semester End Evaluation IOE: Internal Oral Evaluation

EOE: External Oral

IPE: Internal Practical Evaluation

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SCHOOL OF AGRICULTURE

SCHEME OF TEACHING AND EXAMINATION

THIRD YEAR B. Sc. (AGRICULTURE) SEMESTER- V

C				T		ing S er we	Scheme eek	TF 4 1			Evaluati	on Scheme	e (Marks)	
Sr. No.	Course Code	Corse	Name of Course					Total Marks	Marks			Practical		
NO.	Code	Туре		L	T	P	Credits	Marks	Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Practical Crop Production-I (Kharif crops)	0	0	2	1							
2			Technology of Milk and Milk Products	1	0	2	2							
3			Intellectual Property Right	1	0	0	1							
4			Agricultural Marketing Trade and Prices	2	0	2	3				_			
5			Pests of Crops and Stored Grain and their Management- I	1	0	2	2							
6			Crop Improvement – I (Kharif Crops)	1	0	2	2							
7			Production Technology for Ornamental Crops, MAP and Landscaping	1	0	2	2							
8			Diseases of Field and Horticultural Crops and their Management	2	0	2	3							
9			Manures, Fertilizers and Soil Fertility Management	2	0	2	3							

10	Entrepreneurship Development and Business Communication	1	0	2	2				
11	Weed Management	2	0	2	3				
12	Agribusiness Management	2	0	2	3				
13	Food Safety and Standards	2	0	2	3				
14	Protected Cultivation of Horticultural Crops	2	0	2	3				
	Total	14	0	20	24				

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation SEE: Semester End Evaluation IPE: Internal Practical Evaluation

EPE: External Practical Examination IOE: Internal Oral Evaluation EOE: External Oral Examination

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SCHEME OF TEACHING AND EXAMINATION THIRD YEAR B. Sc. (AGRICULTURE)

SEMESTER- VI

				T		ning S	Scheme eek	T. 4.1			(Marks)			
Sr. No.	Course Code	Corse	Name of Course					Total Marks		Theory			Pra	ctical
NO.	Code	Type		L	T	P	Credits	Marks	Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Practical Crop Production-II(Rabi crops)	0	0	2	1							
2			Geo-informatics and Nano-technology and Precision Farming	1	0	2	2							
3			Sheep Goat and Poultry Production	1	0	2	2							
4			Farm Management, Production and Resource Economics	1	0	2	2							
5			Protected Cultivation and secondary Agriculture	1	0	2	2							
6			Management of Beneficial Insects	1	0	2	2							
7			Principles of Food Science and Nutrition	2	0	0	2							
8			Crop Improvement – II (Rabi crops)	1	0	2	2							
9			Post-harvest Management and Value Addition of Fruits and Vegetables	1	0	2	2							
10			Diseases of Field and	2	0	2	3							

	Horticultural Crops and their Management-II					
11	System Stimulation and Agro-advisory	2	0	2	3	
12	Hi tech Horticulture	2	0	2	3	
13	Landscaping	2	0	2	3	
14	Agrochemicals	2	0	2	3	
	Total	13	0	20	23	

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation
EPE: External Practical Examination

SEE: Semester End Evaluation
IOE: Internal Oral Evaluation

IPE: Internal Practical Evaluation

EOE: External Oral Examination

D. Y. PATIL AGRICULTURE AND TECHNICAL UNIVERSITY, TALSANDE, KOLHAPUR SCHOOL OF AGRICULTURE SCHEME OF TEACHING AND EXAMINATION FINAL YEAR B. Sc. (AGRICULTURE) 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	14
3	Agro-Industrial Attachment	10	06
4	Project Report Preparation, Presentation and Evaluation	1	00
	Total weeks for RAWE and AIA	20	20

Agro- Industrial Attachment:

The students would be attached with the agro-industries for a period of 10 weeks to get an experience of the industrial environment and working.