

B. Sc. (Hons) Agriculture

Semester- VII

**Rural Agricultural Work Experience
and
Agro-Industrial Attachment
(RAWE &AIA)**

MAHARASHTRA AGRICULTURE UNIVERSITIES
Semester wise course layout as per the Vth Deans' Committee
Undergraduate – B.Sc. (Hons) Agriculture

Semester- VII

Rural Agricultural Work Experience and Agro-industrial Attachment
(RAWE & AIA)

It is decided to implement RAWE Model-I, considering feasibility in the field situation.

Sr. No.	Activities	Number of weeks	Credit Hours
1	General orientation and On campus training by different faculties	1	14
2	Village attachment/ Unit attachment in Univ./ College. KVK/ Res. Station	13	
3	Agro-Industrial Attachment	5	06
4	Project Report Preparation, Presentation and Evaluation	1	
Total weeks for RAWE & 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.

RAWE Component–I

Village Attachment Training Programme

Sr. No.	Activity	Duration
1	Orientation and Survey of Village	1 week
2	Agronomical Interventions	2 week
3	Plant Protection Interventions	2 week
4	Soil Improvement Interventions (Soil sampling and testing)	2 week
5	Fruit and Vegetable production interventions	2 week
6	Animal Production Interventions	2 week
7	Extension and Transfer of Technology activities	2 week

RAWE Component -II Agro-industrial Attachment

- Students shall be placed in Agro and Cottage industries and Commodities Boards for 5 weeks.
- Industries include Seed / Sapling production, Pesticides-insecticides, Post-harvest-processing-value addition, Agri-finance institutions, etc.;

Activities and Tasks during Agro-Industrial Attachment Programme

- Acquaintance with industry and staff
- Study of structure, functioning, objective and mandates of the industry
- Study of various processing units and hands-on trainings under supervision of industry staff
- Ethics of industry
- Employment generated by the industry
- Contribution of the industry promoting environment
- Learning business network including outlets of the industry
- Skill development in all crucial tasks of the industry
- Documentation of the activities and task performed by the students
- Performance evaluation, appraisal and ranking of students

4. Duration: 20 weeks

5. Weightages: 20 credits

6. Eligibility:

As per the provisions of the academic rules approved by Goa University from time to time, students who are eligible for promotion to VII semester shall register for RAWEprogramme. Once the students registered for RAWEprogramme, they will not be allowed to register for any other courses.

7. Registration:

The students shall first register for RAWEprogramme at the College on the date notified by the University. After registration at the respective College, students will report to the Chairman of RAWE centre (In charge of Research Centres/KVKs/Agri.Tech. schools, Senior academic staff nominated by the Principal) immediately to which the students are attached. Once the students are allotted to a centre, they will not be allowed to change the centre on any ground.

8. Orientation of Students and Programme Officers:

The Associate Dean/Principal of the respective college shall organize orientation programme for the students registered for RAWEprogramme. The Chairman, Programme Coordinator,

Programme Officers, SMS and Heads of the concerned sections will participate in orientation programme. During the orientation programme Bank Officials and concerned staff of Agriculture department will be invited to provide the information related to agriculture and rural development. The students will be oriented with the RAWEprogramme on the following aspects.

- a) Objectives of the RAWEprogramme
- b) Organization of RAWEprogramme
- c) Programme of work in the village and visit to Agro-based industry, Research centres/ KVK etc.
- d) Completion of schedules and exposure visit to agro-based industry, Research centre/ KVK etc.
- e) Report on demonstrations under village placement.
- f) Discipline to be maintained.
- g) Methods of evaluation
- h) Various activities/programmes/schemes of the Agriculture department implemented by the State agricultural department in study area
- i) Various programmes / schemes of the banks for the development of farmers

General orientation and subject wise orientation of students should be completed within **One Week** after registration

9. Selection of RAWEcentre

The concerned college will prepare a list of centers under its jurisdiction for allotment of the students in RAWEprogramme. The centers shall be Agricultural Research Centres/KVKs/Agricultural Tech. schools or any other centre which the college find suitable. The Associate Dean/Principal of the college shall allot about 25 to 30 students to each centre. The students shall be placed at the centre which is 25 to 50 km away from the college.

Once the students are allotted to the centre, they will not be allowed to change the centre on any grounds. The students shall report immediately to the centre –village allotted to him /her after orientation.

10. Selection of Villages

The Chairman and Programme Officer of the concerned centre will submit the list of villages to the Associate Dean /Principal of the College before commencement of the VII semester.

Villages to be selected should be connected by road preferably within the radius of 20 KM. of the centre. There should be at least 100 farm families in the village. Village should be capable of providing lodging and boarding facilities to the students. The villages to be

selected should have as many enterprises as possible Viz. crop production, horticulture, dairy, sheep and goat rearing, poultry, sericulture, apiculture and fishery etc. Villages should be changed every year.

11. Placement of students

On completion of orientation programme at the respective college a batch of 25-30 students shall be allotted by the Associate Dean / Principal to the selected centre under jurisdiction of college for placement with the selected farmer (host farmer) in the village.

Normally one student shall be attached to one identified host farmer in the village with whom he/she has to work for the entire semester. Normally 5 to 6 students shall be posted in one village.

As far as possible the girl students shall be allotted to the research centre observing convenience.

12. Selection of host farmers

The host farmers are the contact farmers with whom the students of RAWEprogramme are attached for studying various aspects of farm enterprise. These progressive farmers shall be selected as host farmers in each village by the **Programme Officer** in consultation with Chairman of the RAWEcentre.

The Programme Officer in consultation with Chairman shall submit the village-wise list of the host farmers of his centre to the Associate Dean /Principal of the College.

Criteria for selection of the host farmers

Farmers should be cooperative, progressive in outlook, knowledgeable and willing to work as host farmers for RAWEprogramme.

- i) The farmers should grow at least two major crops of the region, horticultural crop and practice maximum number of enterprises on their farms.
- ii) Farmers should allow the students to observe the farm operations, take part in carrying out the operations and provide all the requisite information to the students.
- iii) Big farmers as far as possible be avoided for being selected as host farmers as they are generally in habit of entrusting the students to others.
- iv) Farmers should not be repeated every year.

13. Stay of students at the village

- i) The Chairman of the Advisory Committee and ProgrammeOfficer will facilitate in providing accommodation to the students during their stay in the village.
- ii) The students will have to make their own arrangement for lodging and boarding and bear all the cost thereof.

- iii) Students will have to make their own arrangement of conveyance from Research centers to the villages.

14. Attendance and discipline:

- i) Attendance should be minimum 85 per cent.
- ii) Every student shall stay in the village allotted to him for the entire semester of RAWEprogramme.
- iii) In no case the period of stay in the village shall be extended to make up the shortage of attendance of the students.
- iv) In the event of falling short of attendance, the student will be detained and he will have to register for RAWEprogramme when offered next. However, during this period he will not be eligible for stipend.
- v) Student must stay in the village and work with the farmer allotted to him for **8 weeks**. In no case, he should come to his respective college unless called for by the competent authority.
- vi) The students shall maintain well discipline during entire period of their placement in the village. Any misconduct of the students in the village will be viewed seriously and such students should be expelled from the RAWEprogramme/ College.

15. Payment of stipend

All students undergoing RAWEprogramme are eligible for receiving stipend. Every student shall be paid stipend per month or as decided by the Government from time to time. Of these 50% amount shall be used as contingency at the disposal of Associate Dean / Principal for monitoring, evaluation and implementation of RAWEprogramme. However, students who have re-registered for RAWE shall not be eligible to receive the stipend.

16. Programme of work

- i) Immediately after the orientation at the respective college the students shall report to the Chairman of the centre
- ii) As soon as the students reported at the centre, Chairman will allot the village and the name of host farmer with whom he has to work for RAWEprogramme.
- iii) Students shall maintain daily diary of the work performed.
- iv) Students shall report to the Programme Officer once in a fortnight as per the dates fixed by the Chairman of the centre for submission of their daily diary for the purpose of taking review of fortnightly work performed by the students.

- v) Students shall submit a certificate of the host farmer to the Chairman of the centre in the prescribed proforma at the end of every month.

17. Supervision of programme

Formation of Advisory Committee

An Advisory Committee shall be constituted by the Associate Dean/Principal of concerned College for each centre to which students are allotted for providing necessary guidance in implementation of RAWEprogramme.

The advisory committee shall consist of the following members:

- i. In-charge of the respective centre/ KVK/ Associate Professor or Professor of the constituent college / Associate Professor or Principal of the affiliated college
Chairman
- ii. Programme Officer
Member
- iii. One SMS from SMS team nominated by the Associate Dean of the constituent College in his jurisdiction
Member
- iv. The host farmer
Member

The Advisory Committee will be responsible to formulate RAWEprogramme for each student allotted to the centre, get it executed, supervised and scrutinized the work of the students. The advisory committee shall meet monthly to review and monitor the RAWEprogramme.

Programme Coordinator:

Programme Coordinator shall be the representative of the Associate Dean of the respective college in the cadre of Professor/ Associate Professor preferably in the discipline of Extension Education. He will visit each village when the students are placed at all the centers once in a month and coordinating the activities in every month. He will also attend the meeting convened by the Chairman of the centre.

Appointment of Programme Officer:

As Programme Officer is the pivot for successful working of the RAWEprogramme, he should be a senior and experienced person in the cadre of Assistant Professor. The Programme Officer will act as main functionary between the students of RAWEcentre and the college.

Duties of Programme Officer:

The Associate Dean/Principal of the concerned college will appoint one faculty as Programme Officer for each centre where the students will be allotted for the RAWEprogramme.

The Programme officer will perform the following duties.

- i) Programme Officer will identify the villages and the host farmer of the centre
- ii) Programme Officer will act as a primary contact person for the students in their day to day work.
- iii) Programme Officer will maintain attendance of students by frequent visits (**at least once in every week**) to the villages where the students are placed.
- iv) Programme Officer shall guide the students in planning and execution of various extension activities.
- v) Programme Officer will keep watch for regular submission of monthly diaries and reports.
- vi) Programme Officer will help the students in securing accommodation and solving other problems as and when required.
- vii) Programme Officer will arrange one week exposure visit to the Agricultural Research Centers /institutes/KVKs. Again, he will arrange two weeks exposure visit to the agro-based industries/enterprises/NGOs having successful agripreneurs/rural development programmes in the region. It is not necessary to have stay at the place. At least two agro based/ agripreneurs industries shall be visited by the students under the leadership of Programme Officer.
- viii) Programme Officer shall undertake the final presentation of students about RAWE report in the form of power point presentation.

18. Subject Matter Specialists (SMSs):

Associate Dean/Principal of the concerned college will appoint Subject Matter Specialists from all the disciplines. Subject Matter Specialists (SMSs) shall visit the villages where the students are placed at least once in a month during the RAWEprogramme and provide the technical guidance. The members of the SMS team of the constituents' colleges and the concerned students shall attend the monthly meeting of the advisory committee of affiliated colleges in each month in their jurisdiction. He will discuss the progress, monitor the activities and undertake the reviews of the work done and guide the future activities.

19. Monthly meeting:

The Chairman of the Advisory Committee shall convene meeting of all students attached to the station at least once in a month and discuss the progress of work and problems of the students came across.

20. Work Diary:

The student will visit the farm and record the details of the operations carried by the host farmer on his farm and accordingly maintain the subject wise daily work diary. He will also prepare a monthly abstracts done by him in all RAW subjects and will submit to the Chairman of Advisory Committee through Programme Officer at the end of every month which will be checked and evaluated by the Chairman and Programme Officer.

21. Distribution of Courses and Credits

Sr. No.	Courses	Credits	Marks allotted
1.	Agronomy	0+2	100
2.	Animal Science and Dairy Science	0+1	50
3.	Agril. Botany	0+1	50
4.	Agril. Economics	0+2	100
5.	Agril. Entomology	0+1	50
6.	Agril. Engineering	0+1	50
7.	Extension Education	0+2	100
8.	Horticulture	0+1	50
9.	Plant Pathology	0+1	50
10.	Soil Science and Agril. Chemistry	0+1	50
11.	Reports on Study of Village attachment/ Unit attachment in Univ./ College. KVK/ Res. Station	0+1	50
12.	Reports on Study of Agro-Industrial Attachment or Reports on Study of Agro-based industry/ enterprise	0+6	300
Total		0+20	1000

The Rural Agricultural Work Experience will be equivalent to semester load of 20 credits (1000 marks). A student will be evaluated for 1000 marks on the various components each with specific marks as mentioned in Table – 1.

Table 1. Distribution of marks on the basis of components and disciplines

Sr. No.	components of RAWE	Agro.	Horti.	Agril. Ento.	Plant Patho.	SS & AC.	ASDS	Agril. Botany.	Agril. Engg.	Ext. Educ.	Agril. Econ.	Total
1	2	3	4	5	6	7	8	9	10	11	12	13
A. Marks allotted to Subject Matter Specialist – 455 marks												
1	Evaluation of schedules(2) (as per manual)	20	10	10	10	10	10	10	10	20	20	130
2	Evaluation of demonstrations (3) (as per manual)	30	15	15	15	15	15	15	15	30	30	195
3	Presentation & Viva-voce	20	10	10	10	10	10	10	10	20	20	130
	Total (A)	70	35	35	35	35	35	35	35	70	70	455
B Marks allotted to Advisory Committee -- 545 marks												
2	Punctuality at work, cooperation, Regularity	10	5	5	5	5	5	5	5	10	10	65
3	Discipline & conduct	10	5	5	5	5	5	5	5	10	10	65
4	Social Participation, innovativeness/ active participation	10	5	5	5	5	5	5	5	10	10	65
		30	15	15	15	15	15	15	15	30	30	195
5	Reports on study of Agril. Research station/KVKetc											20
	i) Regularity											10
	ii) Initiative & creativity											10
	iii) General conduct & discipline											05
	iv) Work performance											05
6	Reports on study of Agro-based industry/enterprise											150
	i) Initiative & compliance											50
	ii) General conduct & discipline											50
	iii)Project planning & Implementation											20
	iv) Work performance											30
	Total (B)											545
	Total (A+B)	100	50	50	50	50	50	50	50	100	100	1000

	Grand Total	1000
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22. Evaluation system:

Evaluation of credits for RAWEprogramme after placement of students at the stations shall be as per the guidelines provided here under:

a) Evaluation by SMS :

Evaluation of project work which includes completion of schedules and organization of demonstrations (as per manual) and viva-voce carry - 650 marks to be evaluated by the Subject Matter Specialists of the concerned discipline appointed by the Associate Dean / Principal of the region. In all there are ten subjects covered under RAWEprogramme. Except Agronomy, Agril.Economics, and Agril. Extension Education, all other subject carry 50 marks to be evaluated by SMS. Each subject has two schedules of 10 marks (5 marks for each schedule) and 15 marks for any three demonstrations from the list of the demonstrations to be conducted. Whereas Agronomy, Agril. Economics, and Agril. Extension Education carry 20 marks for schedules and 30 marks for any three demonstrations /Case studies (in the case of Agril. Economics).Each student shall prepare a separate file for filling of schedule and organizing demonstrations and other activities for various subjects and same will be submitted to the SMS of the concerned subject appointed by constituent affiliated college for evaluation. The Viva Voce examination shall be conducted by SMS for 130marks.

Evaluation of the SMS files of the constituents and affiliated colleges will be done at the respective college and after the evaluation the files will be kept in the custody of the Associate Dean / Principal of the respective college for two years.

b) Evaluation by Advisory Committee :

Punctuality at work and the regularity in social participation/innovativeness, active participation in extension activities and discipline and conduct as well as reports on study of Agril. Centre, reports on study of Agro-based industries/enterprises are allotted **545 (195+350)** marks which will be evaluated by Advisory Committee of the respective students.

Following points should be consider for evaluation of Part B of the Table-I for **545** marks by the Advisory Committee

- 1) Punctuality at work, cooperation and regularity under this, the students shall be evaluated on the following aspects for **65** marks
 - 1.1. Punctuality in daily diary written by the student
 - 1.2. Attendance of the students in the village (in between 85 % to 100%)
 - 1.3. Fortnightly visit at station
 - 1.4. Submission of weekly and monthly diary in time with complete information.
 - 1.5. Cooperation with host farmer and other farmers in the village
 - 1.6. Behaviour of the students with the farmers

- 1.7. Attendance of monthly meeting of their Advisory Committee in the concerned village
- 1.8. Approach to Grampanchayat, co-operative society, SHGs, PanchayatSamiti, Banks etc.
- 2) Discipline and conduct-under this aspects the students shall be evaluated on the following points for **65** marks
 - 2.1. General behaviour of the students in the village.
 - 2.2. Relation with the teacher/staff of the line department
 - 2.3. Relation with host farmer and villagers
- 3) Social participation/innovativeness/ active participation-this aspect will be evaluated for **65** marks considering following information
 - 3.1. Organization of agriculture day
 - 3.2. Celebration of tree planting programme
 - 3.3. Organization of campaign on any aspects
 - 3.4. Conducting innovative programme and its implementation
 - 3.5. Participation in rural development activities
 - 3.6. Providing assistance to the departments/agencies in the rural development for effective implementation of their activities
- 4) Following information to be included for writing the report on research station/ KVKs/Agril. technical school for **50**marks.
 - 4.1. Preamble-History of the institutes
 - 4.2. Mandates/objectives of the institute
 - 4.3. Functioning of the institute
 - 4.4. Various activities including research , extension and education to be recorded
 - 4.5. Salient features, achievements of the institute
 - 4.6. Comments of the students/ experience
 - 4.7. Organizational pattern/set up of the institute
 - 4.8. Obtain signature of the In-charge institute of the research station/Agril. Institute/KVKs etc.
- 5) Following points to be consider for writing reports on agro-based industry/enterprise/SHGs etc. for **300** marks
 - 5.1. Name of the agro-industry/SHGs
 - 5.2. Establishment/ History
 - 5.3. Objectives of the agro industry

- 5.4 Financial outlay-share of various parties
- 5.5. Functioning/activities-income and expenditure and profit
- 5.6. Human resources in the agro industry
- 5.7. Future programme
- 5.8. Significant achievement
- 5.9. Comments/experience of the students
- 5.10. Obtain signature of the manager

Evaluation for **545** marks will be done by the Advisory Committee Constituted of Chairman, Programme Officer, SMS of the constituent college nominated by the Associate Dean and host farmer. The evaluation will be done at respective RAWEcentre.

23. Procedure for compilation of marks obtained by the students:

The marks obtained by the students in the aforesaid components of evaluation shall be submitted by both the Subject Matter Specialist and Programme Officer in consultation with the Chairman of Advisory Committee separately in the prescribed proforma and forward two copy to the Deputy Registrar (Acad.) of the respective university and one copy Associate Dean of the Constituents College.

24. Grading and repeat RAWE:

The gradation would be in 0-10 point scale. The grade point shall be on the basis of actual percentage of marks obtained by the students in the entire RAWEprogramme divided by 10 and expressed to one decimal point.

A student seeking less than 55 per cent of marks in the entire RAWEprogramme would be declared as failed and he/she shall admit the RAWE programme as and when offered next.