

CH. CHARAN SINGH UNIVERSITY, MEERUT

चौ० चरण सिंह विश्वविद्यालय, मेरठ



पत्रांक : कमेटी सेल/6022
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सेवा में,

प्राचार्य/प्राचार्या,

समस्त संस्थान/महाविद्यालय (जहाँ B.Sc. (Ag.) Honours पाठ्यक्रम संचालित है)

सम्बद्ध चौधरी चरण सिंह विश्वविद्यालय, मेरठ।

महोदय/महोदया,

चौ० चरण सिंह विश्वविद्यालय, मेरठ से सम्बद्ध महाविद्यालयों/संस्थानों में सत्र 2021-22 से B.Sc. (Agriculture) Honours पाठ्यक्रम ICAR 5th Dean Committee Report के नियमों के अनुसार संचालित किया जा रहा है। ICAR 5th Dean Committee के अनुसार B.Sc. (Agriculture) Honours के सातवें सेमेस्टर को विषय **Rural Agricultural Work Experience and Agro-industrial Attachment (RAWE & AIA)** में वर्गीकृत किया गया है। B.Sc. (Agriculture) Honours के सातवें सेमेस्टर के विषय **Rural Agricultural Work Experience and Agro-industrial Attachment** की रूपरेखा, कार्यविधि, भूमिका, उद्देश्य, अधिकतम अंको आदि नियमों का निर्धारण मा० कुलपति जी द्वारा गठित समिति द्वारा किया गया है। उक्त समिति द्वारा सर्वसम्मति से B.Sc. (Agriculture) Honours के सातवें सेमेस्टर के विषय **Rural Agricultural Work Experience and Agro-industrial Attachment** की रूपरेखा, कार्यविधि, भूमिका, उद्देश्य, अधिकतम अंको आदि नियमों का निर्धारण किया गया।

उक्त के आलोक में आपसे यह अनुरोध है की B.Sc. (Agriculture) Honours के सातवें सेमेस्टर में नवीन **RAWE & AIA** पाठ्यक्रम के अनुसार पठन पाठन का कार्य अतिशिघ्र प्रारम्भ करवाने का कष्ट करें। आपको B.Sc. (Agriculture) Honours के सातवें सेमेस्टर के विषय **Rural Agricultural Work Experience and Agro-industrial Attachment (RAWE & AIA)** की प्रति व पाठ्यक्रम से सम्बंधित समस्त प्रत्रावली संलग्न कर उपलब्ध करायी जा रही है। कृपया अग्रेत्तर कार्यवाही करने का कष्ट करें।

संलग्नक : उपर्युक्तानुसार,

भवदीय

परीक्षा नियन्त्रक

प्रतिलिपि :-

- (1) सचिव कुलपति को मा० कुलपति जी के सूचनार्थ।
- (2) वैयक्तिक सहायक, कुलसचिव को कुलसचिव जी के सूचनार्थ।
- (3) संकायाध्यक्ष-कृषि संकाय को सूचनार्थ।

उपकुलसचिव (कमेटी सेल)

CH. CHARAN SINGH UNIVERSITY, MEERUT
FACULTY OF AGRICULTURE

B.Sc. Ag. (Honors)
VIIth Semester

Description of Student READY (Rural Entrepreneurship Awareness Development Yojana)

To reorient graduates of Agriculture and allied subjects for ensuring and assuring employability and develop entrepreneurs for emerging knowledge intensive agriculture, the component envisages the introduction of the program in all the Agricultural Universities/ State Universities as an essential prerequisite for the award of degree to ensure hands on experience and practical training.

This program will be undertaken by the students for a total duration of 20 weeks with a weightage of 0+20 credit hours in two parts namely RAWE and AIA. It will consist of general orientation and on campus training by different faculties followed by village attachment/unit attachment in University/ College/ KVK or a research station. The students would be attached with the agro-industries to get an experience of the industrial environment and working. Due weightage, in terms of credit hours, will be given depending upon the duration of stay of students in villages/ agro-industries. At the end of RAWE/AIA, the students will be given one week for project report preparation, presentation and evaluation.

The students would be required to record their observations in field and agro-industries on daily basis and will prepare their project report based on these observations.

Rural Agricultural Work Experience and Agro-industrial Attachment (RAWE & AIA)			
Sr. No.	Activities	No. of weeks	Credit Hours
1.	General orientation and On campus training by different faculties	01	14
2.	Village attachment	08	
	Unit attachment in University/ College. KVK/ Research Station Attachment	05	
3.	Plant clinic	02	02
4.	Agro-Industrial Attachment	03	04
	Project Report Preparation, Presentation and Evaluation	01	
	Total weeks for RAWE & AIA	20	
	Total Credit hours of RAWE & AIA		20

RAWE Component – I: Village Attachment Training Programme (VATP)

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

RAWE Component –II: Agro Industrial Attachment (AIA)

- ❖ Students shall be placed in Agro-and Cottage industries and Commodities Boards for 03 weeks, to get an experience of the industrial environment and working.
- ❖ 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.

1. Village Attachment Training Programme (Component – I):

Studying Village Scenario:

- ❖ **Orientation & On campus training by different faculties and Survey of Village**
 - ✚ Understanding social participation, leadership pattern, scientific orientation and role of women and youth in agricultural development.
 - ✚ During the orientation programme University staff/ KVKs staff, 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 RAWE programme on the following aspects.

- a) Objectives of the RAW E programme
- b) Organization of RAW E programme
- 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) Methods of evaluation.
- g) Various activities / programmes / schemes of the Agriculture department implemented by the State agricultural department in study area
- h) Various programmes / schemes of the banks for the development of farmers

1.1 Study of rural situation – Village settlement pattern, demography, climate, land utilization pattern, resources inventory, infrastructural facilities, rural institutions, organizations, groups, customs, beliefs and value systems.

Contacting individual farmers to assess the differential farming system practiced by marginal, small, medium, big farmers and farm women.

1.2 Agronomical Interventions:

- 1.2.1 The student has to be exposed to various crops and different agronomical practices in farmer's field.
- 1.2.2 She/he will also involve in production technology and management of various crops.
- 1.2.3 The student shall maintain a record of work done in prescribed proforma.

1.3 Plant Protection Interventions:

- 1.3.1 The student has to be exposed to various plant diseases, prevailing in the area and prescribe remedial measures.
- 1.3.2 The student has to be exposed to various insect-pests prevailing in the area and prescribe remedial measures.
- 1.3.3 The student has to be exposed to various physiological disorders prevailing in the area and prescribe remedial measures.

1.4 Soil Improvement Interventions (Soil Sampling and Testing):

- 1.4.1 Collection of soil sample by geo-positioning system (GPS).
- 1.4.2 Soil testing.
- 1.4.3 Soil properties important for soil health.
- 1.4.4 Use of soil health card for integrated nutrient management.
- 1.4.5 Importance of soil health card in soil quality improvement.
- 1.4.6 Role and importance of micronutrients in crop production.
- 1.4.7 Soil salinity, alkalinity and acidity and its reclamation.
- 1.4.8 Role of bio-fertilizer in improvement of soil health.
- 1.4.9 Classification of green manures and role in improvement of soil health.
- 1.4.10 Improvement of soil health for sustainable agriculture.

1.5 Fruit and Vegetable Production Interventions:

- 1.5.1 Field operation along with their host farmers viz., seedbed preparation, nursery management, propagation etc.
- 1.5.2 The student shall maintain a record of work done.

1.6 Food Processing and Storage Interventions:

- 1.6.1 Methods of food processing and preservation.
- 1.6.2 Importance of processing of fruits and vegetables, spices, condiments and flowers.
- 1.6.3 Packaging of horticultural commodities.
- 1.6.4 Postharvest management and equipment for spices and flowers.
- 1.6.5 Quality control in fruit and vegetable processing industry.
- 1.6.6 Storage structure and methods of grain storage, traditional and modern storage structures.
- 1.6.7 Indigenous technological knowledge used for food storage.

1.7 Animal Production Intervention:

- 1.7.1 Daily maintenance and feed expenses.
- 1.7.2 Milk production, milk disposal.
- 1.7.3 Dairy products.

1.8 Extension and transfer of technology activities:

- 1.8.1 Participatory rural appraisal; Identification of agricultural problems of the village and training needs of the farmers.
- 1.8.2 Organization of short duration farmers training camp.
- 1.8.3 Organization of short duration field visit; Organization of short duration agricultural exhibitions.
- 1.8.4 Study of the on-going rural and agriculture development program in the villages.
- 1.8.5 Arrange farmers meeting to discuss agricultural aspects.
- 1.8.6 Motivate farmers through different Extension teaching methods.
- 1.8.7 Documentation of success stories.
- 1.8.8 Each student shall prepare a report with respect to the activities indicated above and submit it to the chairman of the advisory committee for its evaluation.
- 1.8.9 The student shall be given an opportunity to acquaint with ongoing program and activities of research, development, marketing, extension agencies and organizations in the village.
- 1.8.10 The student will submit report on the visited institutions

2. Studying Development Departments:

- Study the organizational structures and schemes implemented by the various Development Departments.
- Study of Agricultural Department – Organization pattern, role and functions of Department of Agriculture and other allied departments.
- Study of KVK – Organization pattern, role and functions of Department of Agriculture and other allied departments.

3. Studying NGO:

- Study of NGO – Roles and objectives – organizational pattern – sources of funding – extension activities of NGO – Contacting target groups.

- Study of SHG, Agri business, Agri clinic and documentation of success stories of the farmers.

4. Agro Industrial Attachment:

- ❖ Students shall be placed in Agro-and Cottage industries and Commodities Boards for 03 weeks.
- ❖ Industries include Seed/Sapling production, Pesticides-insecticides, Post harvest processing value addition, Agri-finance institutions, etc.

Role of the College and Implementation of the RAWE programme:

1. Registration:

The students shall first register for RAWE programme at the College on the date notified by the College/University. After registration at the respective College, students will report to the Chairman of RAWE centre (In charge of Research Centres / KVKs/, Senior academic staff nominated by the Principal) immediately to which the students are attached.

2. Orientation of Students and Programme Officers:

The Principal of the respective college shall organize orientation programme for the students registered for RAWE programme. The 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. General orientation and subject wise orientation of students should be completed within **One Week** after registration.

3. Selection of RAWE centre:

The concerned college will prepare a list of centers under its jurisdiction for allotment of the students in RAWE programme. The centers shall be Agricultural Research Centres/ KVKs/ or any other centre which the college find suitable. The Principal of the college shall allot about 25 to 30 or suitable number of students to each centre.

4. Selection of Villages:

The villages to be selected should have community involved in core areas as many as Viz. crop production, crop protection, horticulture, dairy, poultry, apiculture and fishery etc.

5. Placement of students/ Allocation of the RAWE centre:

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

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

6. Attendance and discipline:

- Attendance should be as per University rules.
- In the event of falling short of attendance, the student will be detained and he will have to register for RAWE programme when offered next.

- (iii) The students shall maintain well discipline during entire period of their placement in the village.

7. Programme of work:

- (i) Immediately after the orientation at the respective college the students shall report to the In-charge of the respective centre.
- (ii) As soon as the students reported at the centre, In-charge will allot the village and the name of host farmer with whom he has to work for RAWE programme.
- (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 In-charge of the respective 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 In-charge of the respective centre in the suitable proforma at the end of every month.

8. Supervision of programme:

Formation of Advisory Committee: An Advisory Committee shall be constituted by the Principal of concerned College for each centre to which students are allotted for providing necessary guidance in implementation of RAWE programme.

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/ Course Coordinator
Member
- iii. One SMS/ teacher from the college (teaching staff faculty of agriculture) nominated by the Principal of the constituent College in his jurisdiction.
Member
- iv. The host farmer
Member

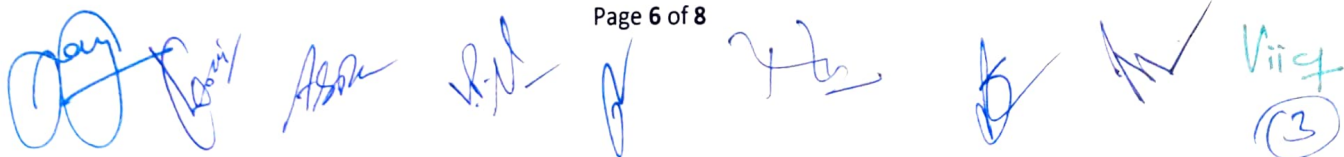
The Advisory Committee will be responsible to formulate RAWE programme for each student allotted to the centre, get it executed, supervised and scrutinized the work of the students. The advisory committee shall meet monthly to review and monitor the RAWE programme.

9. Programme Coordinator:

Programme Coordinator shall be the representative of the Principal of the respective college in the cadre of Professor/ Associate Professor/ Assistant Professor preferably in the discipline of Extension Education/other Agriculture disciplines as recommended by the ICAR. He/ She 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/ She will also attend the meeting convened by the In-charge of the centre.

10. Programme Officer/ Course Coordinator:

As Programme Officer is the pivot for successful working of the RAWE programme, he/ she should be an experienced person in the cadre of Assistant Professor. The Programme Officer

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will act as main functionary between the students of RAWE centre and the college. More than one Programme Officer/ Course Coordinator/College teachers should be suggested by the College Principal preferable by rotation.

Duties of Programme Officer/ Course Coordinator:

The Principal of the concerned college will recommend one faculty as Programme Officer/ Course Coordinator for each centre where the students will be allotted for the RAWE programme.

The Programme officer/ Course Coordinator will perform the following duties.

- i) Programme Officer/ Course Coordinator will identify the villages and the host farmer of the centre.
- ii) Programme Officer/ Course Coordinator will act as a primary contact person for the students in their day to day work.
- iii) Programme Officer/ Course Coordinator will maintain attendance of students by frequent visits to the villages where the students are placed.
- iv) Programme Officer/ Course Coordinator shall guide the students in planning and execution of various extension activities.
- v) Programme Officer/ Course Coordinator will keep watch for regular submission of monthly diaries and reports.

11. Subject Matter Specialists (SMSs)/ Subject Teachers:

Principal of the concerned college will recommend Subject Matter Specialists/ Subject Teachers from all the concerned disciplines. The members of the SMS/ Subject Teachers 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/ She will discuss the progress, monitor the activities and undertake the reviews of the work done and guide the future activities.

12. 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.

14. 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/ She will also prepare a monthly abstracts done by him in all RAWE 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/ Course Coordinator.

Evaluation of RAWE Programme:

Attendance: As per University rules.

Records: Students would complete the record work/ report writing/ presentations, etc. based on daily field observations record in notebooks and weekly diaries maintained by them.

Evaluation Procedures: Students shall be evaluated component-wise separately under Village attachment and Agro-Industrial attachment. Semester end presentations and viva voce based examinations of RAWE courses will be jointly conducted and evaluated by both internal and external examiners. The internal examiners are respective component In-charge/ Programme officer/ Course Coordinator, Subject Teachers recommended/nominated by College Principal (only government aided colleges/government College). The external examiners shall be appointed by the university authority in consultation with the Dean Faculty of Agriculture. Suitable number of teachers against 25 or suitable number of students shall be appointed as an internal examiner. College Principal should ensure involvement of all faculty members as per RAWE/ concerned subjects.

The Rural Agricultural Work Experience will be equivalent to semester load of 20 credits (100 + 100 marks = 200). A student will be evaluated for 100+100 marks on the component-I and component-II.

Evaluation Pattern/ Assessment Parameters (RAWE & AIA):

Sr. No.	Activities/ Parameters	Credits	Marks Distribution	Maximum Marks
I	Village attachment: Component-I			
(a)	Reports on study of Agriculture Research station/ KVK, etc	14	20	100
(b)	Regularity		10	
(c)	Initiative and creativity		10	
(d)	General conduct and discipline		10	
(e)	Work performance		10	
(f)	Presentation and Viva-voce		40	
II	Agro-Industrial attachment: Component-II			
(a)	Reports on study of Agro-based industry/enterprise	06	20	100
(b)	Initiative and compliance		10	
(c)	General conduct and discipline		10	
(d)	Project planning and Implementation		10	
(e)	Work performance		10	
(f)	Presentation and Viva-voce		40	
Grand Total		20		200

(Ajay Kumar)

(Chandan Kumar Rai)

(Sanjeev Kumar Singh)

(Arun Solanki)

(Braj Kumar Prasad)

(Satish Kumar Sharma)

(Vijay Garg)

(Virendra Pratap Singh)

(Rajendra Singh)

(S.S. Gaurav)

(J.K. Dhaka)

(Shailendra Sharma)