



UTTARANCHAL UNIVERSITY



(Established vide Uttaranchal University Act, 2012)

(Uttarakhand Act No. 11 of 2013)

Arcadia Grant, P.O. Chandanwari, Premnagar, Dehradun, Uttarakhand

SCHOOL OF AGRICULTURE (SOA)

Ref.: No. UU/SOA/Dean/2022/22

Date: 02.05.2022

OFFICE ORDER

With reference to email from Dean Academic Affairs, Uttaranchal University dated on 5th April 2022; DIQAC Meeting held in School of Agriculture (SOA) on 02.05.2022 (MOM Ref.: No. UU/SOA/2022/DIQAC/83), under mentioned faculty members in SOA have been nominated as the member of Curricular Review Committee (CRC) for the academic session 2022-2023. Dean, SOA holds the position of Ex-officio chairperson of this committee.

S.No.	Name of Faculty Member	Designation	Position in CRC
1.	Dr. Siddharth Shankar Bhatt	Assistant Professor	Member
2.	Dr. Neha Saini	Assistant Professor	Member
3.	Dr. Rachna Juyal	Assistant Professor	Member
4.	Dr. Atin Kumar	Assistant Professor	Member
5.	Dr. Mohsin Ikram	Assistant Professor	Member
6.	Dr. Awaneesh Kumar	Assistant Professor	Member
7.	Dr. Sandeep Kumar	Assistant Professor	Member
8.	Mr. Sunil Prakash	Assistant Professor	Member
9.	Ms. Smritilekha Majumder	Assistant Professor	Member
10.	Mr. Amit Bhatt	Assistant Professor	Member
11.	Mr. Jayanti Ballabh	Assistant Professor	Member
12.	Dr. Rajendra Prasad	Associate Professor	Member Secretary

The committee members are instructed to compliance the necessary work and submit recommendations for the followings:

1. Review the course curriculum taught during the Odd & Even Semester 2021-2022.
2. Review new guidelines and regulations if any published or recommended by UGC, ICAR and other equivalent bodies.
3. Review the academic flexibility, creativity and innovation in curriculum development of UG & PG agricultural degree programmes.
4. Collect & analyses the feedback from different stakeholders and prepare major recommendations/suggestions to be submitted to Academic Review Committee (ARC).
5. Any other suggestions.

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SCHOOL OF AGRICULTURE (SOA)

Ref.: No. UU/SOA/Dean/2022/23

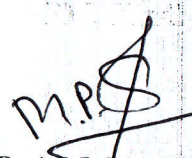
Date: 04.05.2022

Circular

All nominated members of the Curricular Review Committee (CRC) in the SOA are hereby informed that CRC meeting has scheduled on 06.05.2022 at SOA Board room at 4:30 PM. Kindly ensure your presence with necessary documents.

Agenda of the meeting:

1. To review the course curriculum taught during the Odd & Even Semester 2021-2022.
2. To review new guidelines and regulations if any published or recommended by UGC, ICAR and other equivalent bodies.
3. To review the academic flexibility, creativity and innovation in curriculum of UG & PG agricultural degree programmes.
4. To collect & analyses the feedback from different stakeholders and prepare major recommendations/suggestions to be submitted to the Academic Review Committee (ARC).
5. Any other suggestions with permission of the chair.


Prof. (Dr.) Mahipal Singh
Dean SOA

School of Agriculture (SOA)

Ref.: No. UU/SOA/2022/DIQAC/91

Date: 06.05.2022

Proceedings of the CRC Meeting for the Academic session 2022-2023

Meeting started with the welcome note by Dr. Mahipal Singh, Dean, School of Agriculture and chairman of the Curricular Review Committee (CRC) and he put up the agenda items of the meeting before the board members.

Agenda No. 01: Review the courses taught by course instructor during the preceding academic session and forwarding recommendations if any for change of Vision, Mission, philosophy, policies of SOA and programme structure, PEOs, POs, and PSOs of UG and PG degree programmes of Agriculture.

Member secretary explained the outlines of course curriculums taught in UG and PG degree programmes during the preceding academic session and requested all the members for their suggestions. There was a thorough discussion among the members regarding any change in Vision, Mission, philosophy, policies of SOA and course structure, PEOs, POs, PSOs and COs of UG and PG degree programmes of Agriculture and following suggestions have been proposed:

- The Vision, Mission, philosophy, policies of SOA and course structure and PEOs, POs, and PSOs of UG and PG degree programmes of Agriculture were appropriate, and no change suggested at this point.
- Course objectives and course outcomes (COs) may be modified as per blooms level and thus there shall be six course objectives and their outcomes. These modifications shall be proposed as per the vision and mission of the Uttaranchal University and vision and mission School of Agriculture (SOA), and Programme Educational Objectives (PEOs), Programme outcomes (POs) & Programme Specific Outcomes (PSOs) of a degree programmes, respectively.

Agenda No. 02: Review new guidelines and regulations if any published or recommended by UGC, ICAR and other equivalent bodies.

There was a through discussion on this agenda point in length and all members are unanimously agreed to wait for upcoming recommendations of ICAR, Deans' committee which is expected to be published in next few months. In case of delaying or absence of publication of this report, no modification in the structure of UG and PG degree programmes or courses will made in the upcoming BOS.

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Agenda No. 03: Review the academic flexibility, creativity and innovation in curriculum development of UG & PG agricultural degree programmes.

The member secretary of the CRC explained the requirement of academic flexibility, creativity and innovation in curriculum development of UG & PG agricultural degree programmes. This point was discussed among all members in length and following suggestions have been proposed:

- New elective course like Fishery Science, Dairy science, and Hill Agriculture may be prepared and offer to the students B.Sc. (Hons.) Agriculture degree programme.
- Similarly, new elective courses like Plant tissue culture may be prepared and offered to the students of M.Sc. Ag. (Agronomy) and courses like Forecasting of Plant Diseases may be offered to the students of M.Sc. Ag. (Plant Pathology).
- New value-added courses on Nutraceutical Properties of Mushrooms may be prepared and offered to the UG and PG students of Agriculture
- New open elective courses on Insect Farming Technology may be prepared and offered to non-agriculture students of other department through the University Basket of open elective courses.

Agenda No. 04: Collect & analyses the feedback from different stakeholders and prepare major recommendations/suggestions to be submitted to Academic Review Committee (ARC).

The member secretary has requested all course instructors to submit their feedback for changes if any in the courses they have been thought in preceding academic session. He also requested one member to collect feedback from other stakeholders (students, parents, alumni, and industry) collected and uploaded on university ERP portal and to submit to the house. The major categories of feedbacks are:

- Students feedback on curriculum (Odd+Even for AY 2021-22)
- Faculty feedback on curriculum (Odd+Even for AY 2021-22)
- Feedback on teaching-learning (Odd+Even for AY 2021-22)
- Alumni feedback on curriculum (For AY 2021-22)
- Parents' feedback on curriculum (For AY 2021-22)
- Programme Exit Survey (Pass out students for AY 2020-21)
- General Exit Survey (Pass out students for AY 2020-21)
- Feedback on Infrastructure & Other facilities (Pass out students for AY 2020-21)
- SSS (Student Satisfaction Survey- School Wise) For AY 2021-22

The feedbacks received from the course instructors and other stockholders have been discussed in length and following recommendation have been proposed:

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Feedback collected from the students of B.Sc. (Hons.) Agriculture and review and recommendations of CRC

S. No.	Course Name	Course Code	Sem.	Feedback	CRC Review	Recommendation
1.	Fundamentals of Soil Science	ASS-111	1	In practical syllabus following may be added "Visit to crop fields of hilly regions of Uttarakhand and demonstration of soil preparation"	The suggested topic may improve knowledge of regional soil of Uttarakhand	Forwarded to ARC
2.	Physical Education & Yoga Practices	ANC-112	1	There should be a period for Physical Education & Yoga Practices/Yoga activities in morning/evening.	Suggestion forwarded to time table coordinator	Suggestion not related to moderation in course curriculum
3.	National Service Scheme (NSS)	ANC-113	1	Suggestion for addition of following "Visit to Remote village of the local and hilly area of Uttarakhand for interaction with rural people"	The suggested topic may improve understanding of social structure of Uttarakhand	Forwarded to ARC
4.	--	--	--	Value added course like "Soil and Water Management in Agro - Forestry (AGVAC-25) may be offered again	Agreed to offer again in upcoming session of 2022-2023	Forwarded to BOS for offering in upcoming session of 2022-2023

Feedback collected from the students of M.Sc. Ag. (Agronomy) and review and recommendations of CRC

S. No.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
5.	Agronomy of Oilseed, Fiber and Sugar Crops (Kharif & Rabi)	MSAG A-517	III	Credit-hrs of the course may be increased	Course credit is appropriate, and no change was suggested	No change forwarded

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6.	Analytical Techniques and Instrumental Methods in Soil and Plant Analysis	MSAG SS-501	I/II/III (Elective course)	Credit hrs of the course may be increased	Course credit is appropriate, and no change was suggested	No change
7.	Disaster Management	NCPH-501	I/II/III (Elective course)	Under mentioned topic may be added "Cloudburst and its causes"	Agreed to add this topic in Unit -I	Forwarded to BOS for change

Feedback collected from the students of M.Sc. Ag. (Plant Pathology) and review and recommendations of CRC

S. No.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
8.	Statistical Methods	MSAG M-508	2	Credit hrs of the course may be increased	Discusses in length and agreed that course credit was appropriate and no change was suggested	No change
9.	--	--	--	Value added course (VAC) on "Advance Technology in Mushroom Farming" may be started	Agreed to prepare a new value added course on "Advance Technology in Mushroom Cultivation" and proposed to offer students in upcoming session of 2022-2023	Forwarded to BOS

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10.	Plant Virology	MSAG P-509	3	Following topic may be added: Principles of RT-PCR	Agreed to add the suggested topic in Unit-IV of the course	Forwarded to BOS
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Feedback from Faculty Members for B.Sc. (Hons.) Agriculture degree Programme and review and recommendations of CRC

S. No.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
11.	Fundamental of Horticulture	AHS-111	1	Credit hours should be increased	As per 5th Dean committee of ICAR credit hours can't change.	No Change
12.	Fundamental of Plant Biochemistry and Biotechnology	ABT-111	1	Assigned Practical hrs may be increased	Discussed in length and agreed to proposed for increase the practical hours	Forwarded to ARC for upgradation of new practical hrs has proposed as "24 Hrs" 12 experiments
13.	Introduction to Forestry	AGF-111	1	Credit hours should be increased	As per 5th Dean committee of ICAR credit hours can't change.	No Change
14.	Human Value & Ethics	ANC-111	1	Credit hours should be increased	As per 5th Dean committee of ICAR credit hours can't change.	No Change
15.	NSS/NCC/ Physical Education & Yoga Practices	ANC-112	1	The course is informative, but some modification is needed regarding early morning period must schedule for practice.	It's not a part of curriculum to shift schedule in morning hour for practice, so may be	No Change

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					forwarded to Criterion II	
16.	Fundamental of Agricultural Economics	AEM- 121	1	Topic like "Advance techniques and field- based study" may be added	Discussed in length and topic "Market Survey & Visit to local and national banks like RRB, Cooperative and Commercial banks" proposed for addition in Unit-V of course curriculum	Forwarded to ARC
17.	Fundamentals of Crop Physiology	APH- 122	2	Little moderation required for credit distribution	As per 5th Dean committee of ICAR credit hours can't change.	No Change
18.	Production Technology for Vegetables & Spices	AHS- 211	3	Text Books may be revised	Following new books have been suggested: <ul style="list-style-type: none"> • Vishnu Swarup, 2014. Vegetable Science and Technology in India. Kalyani Publishers • Basic concepts of vegetable science. Neeraj Pratap Singh. CBS Publishers. 	Forwarded to ARC

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19.	Statistical Methods	AAM-211	3	Some computational software for statistical data analysis can be added in practical syllabus	Topic like "Introduction to statistical software: SPSS, SAS, GEN State, other online software" may be added in practical syllabus	Forwarded to ARC
20.	Livestock and Poultry Management	AAH-211	3	Need moderation in syllabus: Local and regional breeds of livestock may be added in course curriculum	Discussed in length and following topics have been proposed to added in course curriculum <ul style="list-style-type: none"> • local breeds of cow: Badri- their distribution and adaptation • Local breed of poultry: Uttara chicken - their distribution and adaptation 	Forwarded to ARC
21.	Fundamentals of Plant Pathology	APP-121	2	Addition of following topics suggested: <ul style="list-style-type: none"> • Principles and methods of plant disease management. • Nature, chemical combination, classification, mode of action and formulations of fungicides and antibiotics 	Discussed in length and agreed to add the suggested topic in Unit-IV	Forwarded to ARC

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22.	Fundamentals of Horticulture	AHS-111	1	Addition of following topics suggested: <ul style="list-style-type: none">Case study: use of beneficial insects as pollinator	Discussed in length and agreed to add the suggested topic in Unit-III	Forwarded to ARC
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Feedback from Faculty Members for M.Sc. Ag. (Agronomy) degree Programme and review and recommendations of CRC

S. No.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
23.	Disaster Management	NCPH-501	1/2/3 (Elective course)	Some case studies may be added	Agreed to add following case studies: <ul style="list-style-type: none">Case studies of cloudburst in UttarakhandCase of causes of Landslides in Uttarakhand	Forwarded to BOS committee for addition
24.	Principles and Practices of Weed Management	MSA GA-515	2	Case study on integrated weed management may be added	Agreed to add following case studies: Case study of Integrated beneficial insects as pollinator	Forwarded to BOS committee for addition
25.	Technical Writing and Communication Skills	NCHU-501	1/2/3 (Elective course)	Type and style of bibliography may be specified separately	Types and style of bibliography may be added in course curriculum	Forwarded to BOS committee for addition

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26.	Agronomy of Major Cereals and Pulses (Kharif & Rabi)	MSA GA-516	2	Case study related to the use of modern technology in crop cultivation in Uttarakhand may be added	Reviewed and agreed to proposed following topic: Case study: Modern technology used in any cereal and pulse crop in Uttarakhand	Forwarded to BOS committee for addition
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Feedback from Faculty Members for M.Sc. Ag. (Plant Pathology) degree Programme and review and recommendations of CRC

S. No.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
27.	Biological Control of Plant Diseases	MSA GP-510	3	Topic like "Case study on biological control of plant diseases" may be added	Agreed to proposed the suggested topic of case study course curriculum	Forwarded to BOS committee for addition
28.	Experimental Design	MSA GM-514	2	Course credit may be increased	Reviewed and found that course credit was appropriate	No change in BOS

Feedback from Alumni for B.Sc. (Hons.) Agriculture degree Programme and review and recommendations of CRC

S.N.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
2.	Principles of organic Farming	AGA-323	6	Following topic may be added in practical syllabus • Cultivation of Azolla	Discussed in length agreed to propose for addition of topic in course curriculum	Forwarded to BOS committee for change

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3	Practical Crop Production – II (Rabi crops)	AGA-322	6	Consider local crop species of Uttarakhand (like millets) and hill farming methods in Practical crop production	Considering the importance of local crops, agreed to incorporate the suggestions in course curriculum	Forwarded to BOS committee for addition
4.	Experiential Learning Programme/ HOT	READY-XXX	8	In campus training facilities may be developed	Some training modules like Sericulture, mushroom cultivation, organic farming, Beekeeping, and Tissue-culture may be developed. Suggestion forwarded to criterion – I	Not related with BOS

Feedback from Alumni for M.Sc. Ag. (Agronomy) degree Programme and review and recommendations of CRC

S.N.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
1	Modern Concepts in Crop Production	MSAGA-513	1	Topic like “case study of Integrated farming system; case study of organic farming” may be added in course curriculum	Agreed to proposed the suggested topics of case study in Unit-IV of course curriculum	Forwarded to BOS committee for addition
2.	Agro-Meteorology and Crop Weather Forecasting	MSAGA-511	1/2/3 (Elective course)	Topic like “Rain distribution in Uttarakhand” may be added	Agreed to add the suggested topic in the course curriculum	Forwarded to BOS committee for addition

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Feedback from Alumni for M.Sc. Ag. (Plant Pathology) degree Programme and review and recommendations of CRC

S.N.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
2.	Biological Control of Crop Pests and Weeds	MSAGE-511	1/2/3 (Elective course)	Topic like "Case study on biological control of insect pest" may be added	Already included in the course curriculum i.e., "Successful biological control projects,"	No change
3.	Detection and Diagnosis of Plant Diseases	MSAGP-505	2	Topic like "Identification of plant pathogens" may be added in practical syllabus	Discussed in length and agreed to add this topic in practical syllabus	Forwarded to BOS committee for addition

Feedback from Parents for B.Sc. (Hons.) Agriculture degree Programme and review and recommendations of CRC

S.N.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
1.	Elementary Mathematics	ARC-112	1	Course category may be changed from compulsory to none compulsory	As per ICAR fifth Deans committee reports a candidate has to opt this course if not studied in intermediate/10+2	No change
2.	-	-	-	Examination Policy for internal examination may be revised and a candidate may be permitted for back paper/improvement in Internal examination also	Suggestion is not related with BOS, however, agreed to forward to examination cell of the university	

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Feedback from Parents for M.Sc. Ag. (Agronomy)/M.Sc. Ag. (Plant Pathology) degree Programme and review and recommendations of CRC

S.N.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
1	Library and Information Services	NCLIB - 501	1/2/3 (Elective course)	students should be aware about "Scopus Index"	Agreed to add this topic in course curriculum	Forwarded to BOS committee for addition
2.	Master's Research	MSAGA-599	4	Students should be motivated to start their research work from semester-1	Agreed to permit the students for start their research work from semester-1. Suggested for modification of academic guidelines of the PG degree programmes	Forwarded to BOS committee

Feedback from industry for B.Sc. (Hons.) Agriculture degree Programme and review and recommendations of CRC

S.N.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
1	Fundamentals of Plant Pathology	APP-121	2	Preparation of Recommended dose of fungicides may be added	The suggested topic has already in the course curriculum	No change

Feedback from industry for M.Sc. Ag. (Agronomy) degree Programme and review and recommendations of CRC

S.N.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
1	Modern Concepts in Crop Production	MSAGA-513	1	Students should be explored for calculation of cost of cultivation for field crops	Reviewed and following topic may be added in course curriculum: "Factors affecting the	Forwarded to BOS



UTTARANCHAL UNIVERSITY

(Established vide Uttaranchal University Act, 2012, Uttarakhand Act No. 11 of 2013)
Premnagar-248007, Dehradun, Uttarakhand, INDIA



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					input cost of cultivation for field crops and estimation of market price”	
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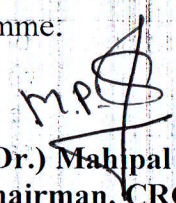
Feedback from Industry for M.Sc. Ag. (Plant Pathology) degree Programme and review and recommendations of CRC

S.N.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
1	Detection and Diagnosis of Plant Diseases	MSAGP-505	2	More emphasis on “Preservation of plant pathogens” may be given by students	Topic related to this was already included in the practical course curriculum	No change

Agenda No. 05: Any other agenda with the permission of the chair:

The chairman asked for any other agenda for discussion. Dr. Rachna Juyal who is also UG Degree Programme Coordinator proposed the house that the marks of “Educational Tour (ANC-321)” may be considered only in Semester-6 of B.Sc. (Hons.) Agriculture degree programme, however, education tour for the students may be organised in Semester-4, 5, or 6. The preproposal was discussed in length and unanimously decided to present to ARC meeting so that it can be proposed to the upcoming BOS of this degree programme:

The meeting ended with a vote of thanks by the chair.


Prof. (Dr.) Mahipal Singh
Chairman, CRC

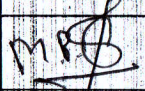

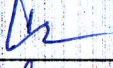



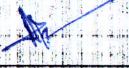


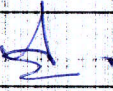
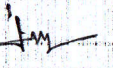
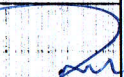
DEAN
SCHOOL OF AGRICULTURE
UTTARANCHAL UNIVERSITY
DEHRADUN

School of Agriculture (SOA)
Attendance Sheet of CRC meeting

Date of Meeting: 06.05.2022

Time: 4:00 PM

Venue: School of Agriculture (SOA), Uttaranchal University, Dehradun

S.No.	Name of Faculty Member	Designation & Affiliation	Position in CRC	Mobile Number	Signature
1.	Dr. Mahipal Singh	Dean, SOA	Chairman	9084026689	
2.	Dr. Siddharth Shankar Bhatt	Assistant Professor, SOA	Member	7302147936	
3.	Dr. Neha Saini	Assistant Professor, SOA	Member	9897871403	
4.	Dr. Rachna Juyal	Assistant Professor, SOA	Member	9690006623	
5.	Dr. Atin Kumar	Assistant Professor, SOA	Member	7895507224	
6.	Dr. Mohsin Ikram	Assistant Professor, SOA	Member	7500937579	
7.	Dr. Awaneesh Kumar	Assistant Professor, SOA	Member	9758016248	
8.	Dr. Sandeep Kumar	Assistant Professor, SOA	Member	8791906870	
9.	Mr. Sunil Prakash	Assistant Professor, SOA	Member	7060542092	
10.	Mr. Amit Bhatt	Assistant Professor, SOA	Member	9409522235	
11.	Mr. Jayanti Ballabh	Assistant Professor, SOA	Member	9997322915	
12.	Dr. Rajendra Prasad	Associate Professor, SOA	Member Secretary	9456110685	


Prof. (Dr.) Mahipal Singh
Chairman, CRC

DEAN
SCHOOL OF AGRICULTURE
UTTARANCHAL UNIVERSITY
DEHRADUN

School of Agriculture (SOA)

Ref. No.: UUA/SA/DIQAC/89(2)

Date: 09/05/2022

Action Taken Report (ATR) of Feedback Analysis Report of B.Sc. (Hons.) Agriculture Degree Programme Academic Year 2019-20

The feedback received from different stockholders were discussed in length and the following actions were taken to resolve the recommendation of the stakeholders:

S.No.	Recommendations	Action Taken																												
1.	Course curriculum of the courses may be revised to address the local and regional needs.	<p>Following topics addressing the local and regional need proposed to the upcoming meeting of CRC for consideration in course curriculum of UG and PG degree programmes of Agriculture:</p> <table border="1"> <thead> <tr> <th>Degree Programme</th> <th>Course</th> <th>Semester</th> <th>Topic</th> </tr> </thead> <tbody> <tr> <td>B.Sc. (Hons.) Agriculture</td> <td>Fundamentals of Soil Science (ASS-111)</td> <td>1st</td> <td>Visit to crop fields of hilly regions of Uttarakhand and demonstration of soil preparation</td> </tr> <tr> <td>B.Sc. (Hons.) Agriculture</td> <td>Principles of Organic Farming (AGA-323):</td> <td>6th</td> <td>Cultivation of Azolla</td> </tr> <tr> <td>B.Sc. (Hons.) Agriculture</td> <td>National Service Scheme (NSS) (ANC-113)</td> <td>1st</td> <td>Visit to Remote village of the local and hilly area of Uttarakhand for interaction with rural people</td> </tr> <tr> <td>M.Sc. Ag. (Agronomy)/ M.Sc. Ag. (Plant Pathology)</td> <td>Disaster Management (NCPH-501)</td> <td>1st/2nd/ 3rd (Elective course)</td> <td> <ul style="list-style-type: none"> • Cloudburst and its causes • Case of causes of Landslides in Uttarakhand </td> </tr> <tr> <td>B.Sc. (Hons.) Agriculture</td> <td>Fundamental of Agricultural Economics (AEM-121)</td> <td>1st</td> <td>Advance techniques and field-based study</td> </tr> <tr> <td>B.Sc. (Hons.) Agriculture</td> <td>Livestock and Poultry Management (AAH-211)</td> <td>3rd</td> <td> <ul style="list-style-type: none"> • local breeds of cow: Badri- their distribution and adaptation • Local breed of poultry: Uttara chicken - their distribution and adaptation </td> </tr> </tbody> </table>	Degree Programme	Course	Semester	Topic	B.Sc. (Hons.) Agriculture	Fundamentals of Soil Science (ASS-111)	1 st	Visit to crop fields of hilly regions of Uttarakhand and demonstration of soil preparation	B.Sc. (Hons.) Agriculture	Principles of Organic Farming (AGA-323):	6 th	Cultivation of Azolla	B.Sc. (Hons.) Agriculture	National Service Scheme (NSS) (ANC-113)	1 st	Visit to Remote village of the local and hilly area of Uttarakhand for interaction with rural people	M.Sc. Ag. (Agronomy)/ M.Sc. Ag. (Plant Pathology)	Disaster Management (NCPH-501)	1st/2nd/ 3rd (Elective course)	<ul style="list-style-type: none"> • Cloudburst and its causes • Case of causes of Landslides in Uttarakhand 	B.Sc. (Hons.) Agriculture	Fundamental of Agricultural Economics (AEM-121)	1 st	Advance techniques and field-based study	B.Sc. (Hons.) Agriculture	Livestock and Poultry Management (AAH-211)	3 rd	<ul style="list-style-type: none"> • local breeds of cow: Badri- their distribution and adaptation • Local breed of poultry: Uttara chicken - their distribution and adaptation
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	B.Sc. (Hons.) Agriculture	Fundamentals of Plant Pathology (APP-121)	2 nd	<ul style="list-style-type: none"> Principles and methods of plant disease management Nature, chemical combination, classification, mode of action and formulations of fungicides and antibiotics
	B.Sc. (Hons.) Agriculture	Fundamentals of Horticulture (AHS-111):	1 st	<ul style="list-style-type: none"> Case study: use of beneficial insects as pollinator
	M.Sc. Ag. (Agronomy)	Principles and Practices of Weed Management (MSAGA-515)	2 nd	<ul style="list-style-type: none"> Case study of Integrated Weed Management in Uttarakhand
	M.Sc. Ag. (Agronomy)	Agronomy of Major Cereals and Pulses (Kharif & Rabi) (MSAGA-516)	2 nd	<ul style="list-style-type: none"> Case study: Modern technology used in any cereal and pulse crop in Uttarakhand.
	M.Sc. Ag. (Plant Pathology)	Biological Control of Plant Diseases (MSAGP-510)	3 rd	<ul style="list-style-type: none"> Case study on biological control of plant diseases.
	B.Sc. (Hons.) Agriculture	Practical Crop Production – II (Rabi crops) (AGA-322).	6 th	<ul style="list-style-type: none"> Consider local crop species of Uttarakhand (like millets) and hill farming methods in Practical crop production
	M.Sc. Ag. (Agronomy)	Modern Concepts in Crop Production (MSAGA-513)	1 st	<ul style="list-style-type: none"> Case study of Integrated farming system; case study of organic farming
	M.Sc. Ag. (Agronomy)	Agro-Meteorology and Crop Weather Forecasting (MSAGA-511)	1 st /2 nd /3 rd (Elective course)	<ul style="list-style-type: none"> Rain distribution in Uttarakhand
	M.Sc. Ag.	Biological	1 st /2 nd /3 rd	<ul style="list-style-type: none"> Case study on

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		(Agronomy)	Control of Crop Pests and Weeds (MSAGE-511)	(Elective course)	biological control of insect pest
		M.Sc. Ag. (Plant Pathology)	Detection and Diagnosis of Plant Diseases (MSAGP-505)	2 nd	<ul style="list-style-type: none"> • Identification of plant pathogens may be added in practical syllabus
		M.Sc. Ag. (Agronomy)	Modern Concepts in Crop Production (MSAGA-513)	1 st	<ul style="list-style-type: none"> • Factors affecting the input cost of cultivation for field crops and estimation of market price
2.	Credit hrs of some courses need to be revised.	As per recommendation of ICAR Fifth Deans' Committee report, request for any change in credit hrs of a course is not considered.			
3.	A period for Physical Education & Yoga Practices/Yoga activities in morning/evening may be assigned.	Suggestion reviewed and accepted to propose to the upcoming CRC meeting.			
4.	Value added course "Soil and Water Management in Agro-Forestry (ATV.C-25) may be offered again in upcoming session.	Suggestion reviewed and accepted to propose to the upcoming CRC meeting.			
5.	Technology for Vegetables & Spices (MS-211) may be revised by	Suggestion reviewed and following new books have been suggested: <ul style="list-style-type: none"> • Vishnu Swarup, 2014. Vegetable Science and Technology in India. Kalyani Publishers • Basic concepts of vegetable science. Neeraj Pratap Singh. CBS Publishers 			
6.	In-service training may be developed	Suggestion reviewed and accepted to propose to the upcoming CRC meeting.			
7.	Remedial courses may be as non compulsory	Suggestion not considered because, as per recommendation of ICAR Fifth Deans' Committee report, Remedial courses shall be offered as compulsory courses.			



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8.	Application method of fungicides in field crops may be added in syllabus.	Suggestion reviewed and following topic proposed to upcoming meeting of CRC for adding in Fundamentals of Plant Pathology (APP-121): • Preparation of Recommended dose of fungicides may be added
9.	Calculation of cost of cultivation for field crops may be included in syllabus.	Suggestion reviewed and following topic proposed to upcoming meeting of CRC for adding in Modern Concepts in Crop Production (MSAGA-513): • Factors affecting the input cost of cultivation for field crops and estimation of market price
10.	Principles of RT-PCR may be included in the course curriculum.	Following topic proposed to the to upcoming meeting of CRC for addition in the syllabus of Plant Virology (MSAGP-509): "Principles of RT-PCR"
11.	Students may be explored for some basic computational software for statistical data analysis	Topic like "Introduction to statistical software: SPSS, SAS, GEN, State, other online software" proposed to the upcoming CRC meeting for addition in syllabus of Statistical Methods (AAM-211)
12.	Type and style of bibliography may be explained to students	The topic "Type and style of bibliography may be specified separately" proposed for consideration in the syllabus of Technical Writing and Communication Skills (NCHU-501) of M.Sc. Ag. (Plant Pathology)/ M.Sc. Ag. (Agronomy)
13.	Students should be aware about indexing of journals in Scopus.	Suggestion reviewed and accepted to propose the following topic to the upcoming meeting of CRC: "Scopus Index" in the course curriculum of the course Library and Information Services (NCLIB-501) offered in the PG degree programmes of Agriculture.
14.	More emphasis on "Preservation of plant pathogens" may be given by students	Suggestion reviewed and accepted to propose to the upcoming CRC meeting.

All the feedbacks and suggestions reviewed and action taken report proposed to the upcoming meeting of CRC for consideration.

M.P.S.
Dean, SOA

Copy to:

- The Vice chancellor, Uttaranchal University
- The Director, IQAC, Uttaranchal University
- The Dean, Academic Affairs, Uttaranchal University
- Office file

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