



UTTARANCHAL
UNIVERSITY

UTTARANCHAL UNIVERSITY

(Established vide Uttaranchal University Act, 2012)

(Uttarakhand Act No. 11 of 2013)

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



NAAC
GRADE

SCHOOL OF AGRICULTURE (SOA)

Ref.: No. UU/SOA/Dean/2022/25

Date: 02.05.2022

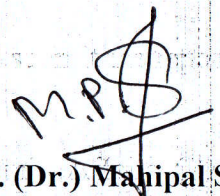
OFFICE ORDER

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 Academic Review Committee (ARC) for the academic session 2022-2023. Dean, SOA holds the position of Ex officio chairperson this committee.

S.No.	Name of Faculty Member	Designation	Position in ARC
1.	Dr. Rajendra Prasad	Associate Professor	Member
2.	Dr. Rachna Juyal	Assistant Professor	Member
3.	Dr. Atin Kumar	Assistant Professor	Member
4.	Dr. Awaneesh Kumar	Assistant Professor	Member
5.	Mr. Sunil Prakash	Assistant Professor	Member
6.	Mr. Jayanti Ballabh	Assistant Professor	Member
7.	Mr. Amit Bhatt	Assistant Professor	Member
8.	Dr. Neha Saini	Assistant Professor	Member Secretary

The committee members are instruction to compliance necessary work and submit the report for the followings:

1. Analyse the directions / suggestions received from Dean Academic Affairs (DAA) and recommended in curricular development of the UG and PG degree programs of agriculture.
2. Review the academic activities of the Odd and Even semester 2021-22 and prepare new recommendations for upcoming BOS meeting.
3. Review the Action taken report of various committees at University and Departmental level and prepare recommendations for upcoming BOS meeting.
4. Review the recommendations of ARC in competence with regularity bodies, UGC, State Government, ICAR or any other similar and authorized body.
5. Prepare and recommend suggestions for curricular enhancement for upcoming BOS meeting.
6. Any other suggestions.



Prof. (Dr.) Mahipal Singh
Dean SOA

SCHOOL OF AGRICULTURE
UTTARANCHAL UNIVERSITY
DEHRADUN

SCHOOL OF AGRICULTURE (SOA)

Ref.: No. UU/SOA/Dean/2022/26

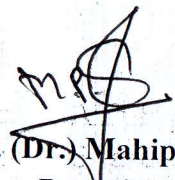
Date: 09.05.2022

Circular

All nominated members of the Academic Review Committee (ARC) in the SOA are hereby informed that the ARC meeting has been scheduled on 12.05.2022 at SOA Board room at 2:30 PM. Kindly ensure your presence with necessary documents.

Agenda of the meeting:

1. To analyse the directions / suggestions received from Dean Academic Affairs (DAA) and prepare the recommendations for curricular development of the UG and PG degree Programmes of agriculture.
2. To review the academic activities held in the Odd and Even semester 2021-22 and prepare new recommendations.
3. To review Action Taken Report of various committees at University and Departmental level and prepare recommendations for upcoming BOS meeting.
4. To review the recommendations of ARC in competence with regularity bodies, UGC, State Government, ICAR or any other similar and authorized body.
5. To review suggestions for the curricular enhancement in upcoming BOS meeting.
6. Any other suggestions by the permission of the chair.


Prof. (Dr.) Mahipal Singh
Dean SOA

SCHOOL OF AGRICULTURE
UTTARANCHAL UNIVERSITY
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School of Agriculture (SOA)

Ref.: No. UU/SOA/2022/DIQAC/103

Date: 12.05.2022

Proceedings of the ARC 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 Academic Review Committee (ARC) and he put up the agenda items of the meeting before the board members.

Agenda No. 01: To review the direction / suggestions of the Vice Chancellor of Uttaranchal University for the incorporation of preparedness for NEP 2020.

Member secretary explained the various directions and suggestion received from Hon'ble Vice Chancellor of the University to for the incorporation of preparedness for NEP 2020 in the upcoming BOS of B.Sc. (Hons.) Agriculture, M.Sc. Ag. (Agronomy), and M.Sc. Ag. (Plant Pathology). All members were discussed on various points one by one and following recommendations have been proposed to the BOS committee of above degree programmes:

1. Multidisciplinary/ interdisciplinary

S. No.	Suggestions/Recommendations	ARC Review	Recommendations
a)	Delineate the vision/plan of institution to transform itself into a holistic multidisciplinary institution	<p>The course curriculum of B.Sc. (Hons.) Agriculture, M.Sc. Ag. (Agronomy), and M.Sc. Ag. (Plant Pathology) have been designed as per the recommendations of ICAR fifth dean's committee report and included multidisciplinary courses so that students can develop understanding of various multidisciplinary subject fields related to the core subject. For example,</p> <ul style="list-style-type: none"> B.Sc. (Hons.) Agriculture degree programme is offering courses like, Agronomy, Genetics & Plant Breeding, Soil Science & Agricultural Chemistry, Entomology, Agricultural Economics, Agricultural Engineering, 	<p>Since discipline-wise courses have already described in the details course curriculum of UG and PG degree programmes no suggestion for moderation has suggested at this point.</p>



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		<p>Plant Pathology, Horticulture, Food Science, Agricultural Extension, Biochemistry / Physiology / Microbiology/ Environmental Sciences, Statistics, Computer Application and I.P.R., Animal Production, Language, Remedial Courses, Non-Gradial Courses(NSS/NCC/Physical Education & Yoga Practices), Human Values & Ethics and Educational tour, respectively.</p> <ul style="list-style-type: none">• M.Sc. Ag. (Agronomy) degree programme is offering courses categorise as Major courses (Agronomy) and Minor courses (Plant Physiology and), Supporting courses (Statistical methods, and Experimental Design), and Non-Gradial Compulsory Courses (Intellectual Property and Its Management in Agriculture, Technical Writing and Communication Skills, Disaster Management, Library and Information Services, Basic Concepts in Laboratory Techniques, Agriculture Research, Research Ethics and Rural Development Programme), respectively.• M.Sc. Ag. (Plant Pathology) degree programme is offering courses categorise as Major courses (Plant Pathology) and Minor courses (Soil Science and Entomology), Supporting	
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		<p>courses (Statistical methods, and Experimental Design), and Non-Gradual Compulsory Courses (Intellectual Property and Its Management in Agriculture, Technical Writing and Communication Skills, Disaster Management, Library and Information Services, Basic Concepts in Laboratory Techniques, Agriculture Research, Research Ethics and Rural Development Programme), respectively.</p>	
<p>b)</p>	<p>Delineate the Institutional approach towards the integration of humanities and science with STEM and provide the detail of programs with combinations.</p>	<ul style="list-style-type: none"> • B.Sc. (Hons.) Agriculture degree programme is offering many courses of various disciplines of humanities and science with STEM like, Human Values & Ethics; Agriculture Heritage, Introductory Biology, Elementary Mathematics, Statistics, Biochemistry/ Biotechnology/ Plant Physiology / Microbiology/ Environmental Sciences, Food Science, Agri- Informatics, Comprehension & Communication Skills in English, etc. • PG degree programmes of M.Sc. Ag. (Agronomy) and M.Sc. Ag. (Plant Pathology) are offering various disciplines of humanities and science with STEM like, Intellectual Property and Its Management in Agriculture, Technical Writing and Communication Skills, 	<p>Multidisciplinary courses offered to the students may be categorised under the heading of humanities, Science and STEM in the academic guidelines of UG and PG degree programmes.</p>



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		<p>Disaster Management, Library and Information Services, Basic Concepts in Laboratory Techniques, Agriculture Research, Research Ethics and Rural Development Programme, Statistical methods, etc.</p>	
<p>c)</p>	<p>Does the institution offer flexible and innovative curricula that includes credit-based courses and projects in the areas of community engagement and service, environmental education, and value-based towards the attainment of a holistic and multidisciplinary education?</p>	<ul style="list-style-type: none"> • The degree programmes of B.Sc. (Hons.) Agriculture, M.Sc. Ag. (Agronomy), and M.Sc. Ag. (Plant Pathology) are running under the Choice Based Credit System (CBCS) scheme. • Students of B.Sc. (Hons.) Agriculture are motivated and engaged in community based works through NCC/NSS activities, RAWE, AIA, ELP, Educational tours. • M.Sc. Ag. (Agronomy), and M.Sc. Ag. (Plant Pathology) are motivated and engaged in community based works through Seminar and Master's Thesis. Thought these courses are motivated to refer the local issues related to the major subject fields and do research for solution in their thesis work. • There are several courses offered to the students for environmental education like, Disaster Management in PG degree programmes, and Environmental Studies and Disaster Management in UG degree programme. 	<p>The UG and PG degree programmes of Agriculture is already incorporated the desired curricula and hence, no moderation is suggested at this point.</p>

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d)	<p>What is the institutional plan for offering a multidisciplinary flexible curriculum that enables multiple entry and exits at the end of 1st, 2nd and 3rd years of undergraduate education while maintaining the rigor of learning? Explain with examples</p>	<p>Reviewed and suggested to wait for upcoming guidelines of ICAR 6th Dean's Committee report</p>	<p>No moderation is suggested at this point.</p>
e)	<p>What are the institutional plans to engage in more multidisciplinary research endeavours to find solutions to society's most pressing issues and challenges?</p>	<p>PG degree programmes of M.Sc. Ag. (Agronomy), and M.Sc. Ag. (Plant Pathology) are offering courses like Seminar and Master's Research and engage the students in multidisciplinary research endeavours to find solutions to society's. The university is providing facilities and guidance to the students at both levels i.e., departmental and university level.</p> <ul style="list-style-type: none"> • The departmental advisory committee assign the research topic to the students related to the issues and challenges in local society and supervise thoroughly for appropriate work by the students. • The University research committee under the Division of Research and Innovation (DRI) provides its facilities and guidance to the PG students time to time for the best outcomes from the Master's thesis work. 	<p>No moderation is suggested at this point.</p>
f)	<p>Describe any good practice/s of the institution to promote Multidisciplinary / interdisciplinary approach in</p>	<p>The good practice/s of the to promote the Multidisciplinary / interdisciplinary approach has already explained in previous headings.</p>	<p>No moderation is suggested at this point.</p>



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	view of NEP 2020.		
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2. Academic bank of credits (ABC):

S. No.	Suggestions / Recommendations	ARC Review	Recommendations for BOS
a)	Describe the initiatives taken by the institution to fulfil the requirement of Academic bank of credits as proposed in NEP 2020.	Reviewed and suggested to wait for upcoming guidelines of ICAR 6 th Dean's Committee report	No moderation is suggested at this point.
b)	Whether the institution has registered under the ABC to permit its learners to avail the benefit of multiple entries and exit during the chosen programme? Provide details.	Reviewed and suggested to wait for upcoming guidelines of ICAR 6 th Dean's Committee report	No moderation is suggested at this point.
c)	Describe the efforts of the institution for seamless collaboration, internationalization of education, joint degrees between Indian and foreign institutions, and to enable credit transfer.	Reviewed and suggested to wait for upcoming guidelines of ICAR 6 th Dean's Committee report	No moderation is suggested at this point.
d)	How faculties are encouraged to design their own curricular and pedagogical approaches within the approved framework, including textbook, reading material selections, assignments, and assessments etc.	<ul style="list-style-type: none"> The UG and PG degree programmes of Agriculture running in the university are developed as per the guidelines of ICAR 5th Dean's Committee report which gives limited or no permission to design curricular own. The university has adopted a standard pedagogical approaches within the approved framework, and included the suggested 	No moderation is suggested at this point.



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		<p>readings including textbook, reference books, online reading sources, journals, etc., in the each course of degree programme.</p> <ul style="list-style-type: none"> Each student in UG and PG degree programmes is given assignments based on related topic or case studies. The assignments submitted are assessed /evaluated and marks are given to contribute in earnings of grade points. 	
e)	Describe any good practice/s of the institution pertaining to the implementation of Academic bank of credits (ABC) in the institution in view of NEP 2020.	Reviewed and suggested to wait for upcoming guidelines of ICAR 6 th Dean's Committee report	No moderation is suggested at this point.

3. Skill development:

S. No.	Suggestions / Recommendations	ARC Review	Recommendations
a)	Describe the efforts made by the institution to strengthen the vocational education and soft skills of students in alignment with National Skills Qualifications Framework	<ul style="list-style-type: none"> B.Sc. (Hons.) Agriculture degree programmes are offering courses like Comprehension & Communication Skills in English (AHE-111) and Communication Skills & Personality Development (AHE-121) to strengthen the soft skills of UG students. M.Sc. Ag. (Agronomy), and M.Sc. Ag. (Plant Pathology) are offering Technical Writing and Communication Skills (NCHU-501) to strengthen the soft skills of PG students. The UG and PG degree programme of Agriculture are 	No moderation is suggested at this point.

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		<p>vocational programmes. Moreover, to strengthen the vocational education among the UG students, Rural Agricultural Work Experience and Agro-Industrial Attachment (RAWE & AIA) (READY-41X), and Experiential Learning Programme/ HOT (READY-XXX) are offering; and among the PG students, Master's Seminar (MSAGA-591), and Master's Research (MSAGP-599) are offering, respectively.</p> <ul style="list-style-type: none"> • Students are also explored in career orientation programs to give additional strengthen for vocational skills 	
b)	Provide the details of the programmes offered to promote vocational education and its integration into mainstream education.	<ul style="list-style-type: none"> • B.Sc. (Hons.) Agriculture • M.Sc. Ag. (Agronomy) • M.Sc. Ag. (Plant Pathology) 	No moderation is suggested at this point.
c)	How the institution is providing Value-based education to inculcate positivity amongst the learner that include the development of humanistic, ethical, Constitutional (Fundamental Duties, Constitutional values, a conscious awareness of one's citizenry roles and responsibilities in a changing world), and universal human values of truth (satya), righteous conduct (dharma), peace (shanti), love (prem), nonviolence (ahimsa), scientific temper, citizenship	Reviewed and suggested for preparation and additional related syllabus in the course "Human Values & Ethics (ANC-111)" of B.Sc. (Hons.) degree programme.	<p>Recommended for addition of under mentioned topics in the syllabus in course "Human Values & Ethics (ANC-111)" of B.Sc. (Hons.) degree programme:</p> <p>Fundamental duties and responsibilities of Indian citizens; Indian constitutional values of justice, liberty, equality and fraternity; Universal Human Values of truth (satya),</p>



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	values, and also life-skills etc.		righteous conduct (dharma), peace (shanti), love (prem), nonviolence (ahimsa), scientific temper, citizenship values; Human rights, sustainable development and living as well as global well-being; Case Studies of local, regional and national values, languages and skills to reinforce and exemplify a holistic and humane world vision; Responsibility for Environment, Wildlife, and Society; Socially responsible behavioural skills, team work, collaboration; Skills for meaningful participation in the family, neighbourhood, institution, workplace, community, etc. and all the way to the Nation
d)	Enlist the institution's efforts to: i. Design a credit structure to ensure that all students take at least one vocational course before graduating. ii. Engaging the services of Industry veterans and Master Crafts persons to provide vocational skills and overcome gaps vis-à-vis trained faculty provisions.	i. UG and PG students have been offered with varieties of courses having practical to improve vocational skills in them. ii. B.Sc. (Hons.) Agriculture offers following compulsory courses: • Rural Agricultural Work Experience and Agro-Industrial Attachment (RAW & AIA) (READY-41X) in Semester-7 th	No moderation is suggested at this point!

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<p>iii. To offer vocational education in ODL/blended/on-campus modular modes to Learners.</p> <p>iv. NSDC association to facilitate all this by creating a unified platform to manage learner enrolment (students and workers), skill mapping, and certification.</p> <p>v. Skilling courses are planned to be offered to students through online and/or distance mode.</p>	<ul style="list-style-type: none"> • Semester-8th :Experiential Learning Programme (ELP)/ Hands on Training (HOT) (READY- XXX) and each student has to opt any two module compulsorily out of 19 modules <p>M.Sc. Ag. (Agronomy) and M.Sc. Ag. (Plant Pathology) both degree programme offer compulsory Master' Seminar and Master's Thesis to all PG students.</p> <p>iii. The University statutory has already approved for inviting Industry expert as BOS committee member for enrichment of curriculum of UG and PG degree programmes. Moreover, institute is regularly organising guest lectures of Industry veterans and Master Crafts persons to provide vocational skills to the students.</p> <p>iv. Offering vocational education in ODL/blended/on-campus modular modes to the students reviewed and suggested to wait for upcoming guidelines of ICAR 6th Dean's Committee report</p> <p>v. For National Skill Development Corporation (NSDC) it was suggested to wait for upcoming guidelines of ICAR 6th Dean's Committee report</p> <p>vi. The committee has suggested</p>	
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		to offer Value Added Courses to students through online and/or distance mode.	
e)	Describe any good practice/s of the institution pertaining to the Skill development in view of NEP 2020.	<ul style="list-style-type: none"> Promoting field practices for skill development among the students. Students develop skills about the traditional and advanced technologies of Agriculture and become ready for using his/her understandings and analytical ability in his/her parental farms to increase the family income or improve his/her work efficiency at the job places. Promoting student-farmer interaction through social interactive programs. Students develop ability to identify the real-life challenges, confident to interact with people in a society/ corporate society and thus develop the motivation for Entrepreneurship Development or able decide the future job fields. 	No moderation is suggested at this point.

4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

S. No.	Suggestions / Recommendations	ARC Review	Recommendations
a)	Delineate the strategy and details regarding the integration of the Indian Knowledge system (teaching in Indian Language, culture etc.) into the curriculum using both offline and online	<ul style="list-style-type: none"> The UG and PG degree programmes of Agriculture have already inculcated numerous terminologies in Indian language viz. Crop Improvement-I (Kharif Crops) (AGP-311); Crop Production 	No moderation is suggested at this point.

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	courses.	<p>Technology-II (Rabi Crops) (AGA-221).</p> <ul style="list-style-type: none"> Moreover, for integration of Indian language in course curriculum, ARC members suggested to wait for ICAR 6th Dean's Committee Report. 	
b)	<p>What are the institutions plans to train its faculties to provide the classroom delivery in bilingual mode (English and vernacular)? Provide the details.</p>	<p>As per the need of better communication with students, faculty members already delivering their lectures/ demonstrating practical/ other pedagogical activities in English and vernacular (Hindi) languages. However, as per the recommendation of ICAR 5th Dean's Committee Report, the medium of degree programme shall remain English only.</p>	<p>No moderation is suggested at this point.</p>
c)	<p>Provide the details of the degree courses taught in Indian languages and bilingually in the institution.</p>	<ul style="list-style-type: none"> B.Sc. (Hons.) Agriculture M.Sc. Ag. (Agronomy) M.Sc. Ag. (Plant Pathology) 	<p>No moderation is suggested at this point.</p>
d)	<p>Describe the efforts of the institution to preserve and promote the following:</p> <ol style="list-style-type: none"> Indian languages (Sanskrit, Pali, Prakrit and classical, tribal and endangered etc.) Indian ancient traditional knowledge Indian Arts Indian Culture and traditions. 	<p>Reviewed and suggested to wait for upcoming guidelines of ICAR 6th Dean's Committee report for adding new course to promote Indian languages (Sanskrit, Pali, Prakrit and classical, tribal and endangered, Garhwali, Kumauni, etc.)</p> <p>However, some topics related to "Indian ancient traditional knowledge, Indian arts, and Indian Culture and Tradition" may be added to a course - Human Values & Ethics (ANC-111) of B.Sc. (Hons.) Agriculture degree programme.</p>	<p>Forwarded to BOS committee to consider the addition of topics related to "Indian ancient traditional knowledge, Indian arts, and Indian Culture and Tradition" in a course - "Agriculture Heritage (ARC-111)" of B.Sc. (Hons.) Agriculture degree programme.</p>

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e)	Describe any good practice/s of the institution pertaining to the appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course) in view of NEP 2020.	<ul style="list-style-type: none"> The UG and PG degree programmes of Agriculture have already inculcated numerous terminologies described in Indian language like Rabi Crops, Kharif Crops, and Jayad crops, Fasal chakra, etc. Faculty members are also using Indian Languages during the teaching pedagogy whenever is required. 	No moderation is suggested at this point.
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5. Focus on Outcome based education (OBE):

S. No.	Suggestions / Recommendations	ARC Review	Recommendations
a)	Focus on Outcome based education (OBE)	Already implemented in the UG and PG degree programmes	No moderation is suggested at this point.
b)	Curricula developed and implemented have relevance to the local, national, regional and global developmental needs, which is reflected in the Programme outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the Programme	Already implemented in the UG and PG degree programmes	No moderation is suggested at this point.

6. Distance education/online education:

S. No.	Suggestions / Recommendations	ARC Review	Recommendations
a)	Distance education/online education	<ul style="list-style-type: none"> Reviewed and suggested to wait for upcoming guidelines of ICAR 6th Dean's Committee However, UG and PG students 	Suggestion not related with moderation course curriculum of UG and PG degree programmes.



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		of Agriculture are motivating for registration of online MOOC courses as non-compulsory additional courses. Such courses will be considered as Non-Gradual certificate course.	
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7. Other suggestions

S. No.	Suggestions / Recommendations	ARC Review	Recommendations
a)	Percentage of Programmes where syllabus revision has been carried out	Members of ARC agreed to calculate and mention for each: <ul style="list-style-type: none"> B.Sc. (Hons.) Agriculture M.Sc. Ag. (Agronomy) M.Sc. Ag. (Plant Pathology): 	Recommended to mention in summary sheet
b)	Average percentage of courses having focus on employability/ entrepreneurship/ skill development	Members of ARC agreed to calculate and mention for each: <ul style="list-style-type: none"> B.Sc. (Hons.) Agriculture M.Sc. Ag. (Agronomy) M.Sc. Ag. (Plant Pathology) 	Recommended to mention in Academic Guidelines
c)	Percentage of new courses introduced out of the total number of courses across all programmes	Members of ARC agreed to calculate and mention for each: <ul style="list-style-type: none"> B.Sc. (Hons.) Agriculture M.Sc. Ag. (Agronomy) M.Sc. Ag. (Plant Pathology) 	Recommended to mention in summary sheet of BOS meeting
d)	Percentage of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented	CBCS/elective course system has already been implemented 100%	Recommended to mention cover page of BOS of each degree programme
e)	Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	Already implemented in the UG and PG degree programmes	No moderation is suggested at this point.
f)	Value-added courses for imparting transferable and life skills offered during the	SOA has offered 28 Value Added Courses (VAC) in last 5 years and proposed 2 new value added	Proposed to upcoming BOS Meeting



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last 5 years	courses in upcoming odd semester of 2022-2023
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Agenda No. 02: To review the directions / suggestions received from Dean Academic Affairs (DAA), Uttaranchal University and prepare the recommendations for curricular development of the UG and PG degree Programmes of agriculture.

Member secretary explained the various directions and suggestion received from Dean academic affairs (DAA) of the university during Odd & Even Semester 2021-2022. All members were discussed on those points one by one and following analysis and recommendations have been proposed to the BOS committee.

S. No.	Directions / Suggestions	Review on Directions / Suggestions	Recommendations for BOS
a)	Suggested Books should be updated with new addition	Members of ARC agreed to modify wherever is required for each: <ul style="list-style-type: none"> • B.Sc. (Hons.) Agriculture • M.Sc. Ag. (Agronomy) • M.Sc. Ag. (Plant Pathology) 	Recommended to BOS of UG and PG degree programmes
b)	Guidelines for the value-added course (VAC)	Reviewed and agreed to implement guidelines/ recommendation	Proposed to mention in academic guidelines of every degree programme
c)	SOP of certificate course	Not related with BOS of existing degree programme	Suggestion not related with moderation/course curriculum of UG and PG degree programmes.
d)	MOU with Industry	Not related with BOS of existing degree programme	Suggestion not related with moderation/course curriculum of UG and PG degree programmes.
e)	Every course instructor should prepare Introductory lecture in prescribed format and describe the expected points in detail	Agreed to implement the recommendation	Proposed to mention in academic guidelines of every degree programme

Agenda No. 03: To analyse the directions / suggestions received from Internal Quality Assurance Cell (IQAC) of the Uttaranchal University and prepare the recommendations for curricular development of the UG and PG degree Programmes of agriculture.



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S. No.	Directions / Suggestions	Review on Directions / Suggestions	Recommendations for BOS
a)	PG students should be motivated for publishing their research work in peer reviewed Journals before submitting their Masters' Thesis work.	Discussed in length and agreed to implement for students of PG degree programmes	Proposed to mention in academic guidelines of PG degree programme
b)	Journals and reliable websites should be added as suggested readings of courses in detailed syllabus	Unanimously agreed to add Journals and reliable websites in suggested readings of courses	Proposed to upcoming BOS Meeting

Agenda No. 04: To review the academic activities held in the Odd and Even semester 2021-22 and prepare new recommendations.

Member secretary explained about the various academic activities like teaching, practical demonstration, field works, extension works, RAWE & AIA and ELP, research, seminar, etc. occurred Odd and Even semester 2021-22 ask any suggestion related to these activities for curricular enrichment. There was through discussion on this agenda point and all members are unanimously agreed to not to change in course curriculum regarding above, however, following suggestions have proposed:

S.No.	Feedback of academic activities	ARC Review	Recommendation for BOS
a)	Writing skills of students during the examination need to improve	Specific session may be organized under the student Orientation Program every year	At least one Orientation Program may be organized in a year addressing this issue
b)	Students may be engaged in group discussion to improve the soft skills.	Specific session for group discussion may be organized by course instructor during the vacant period if any.	Specific session for group discussion may be organized by course instructor as per convenience.

Agenda No. 05: To review activities of various committees at University and Departmental level and prepare recommendations for upcoming BOS meeting of UG and PG degree programme.

Member secretary explained about the various activities of cultural committee, Extension committee, Student club, etc. occurred Odd and Even semester 2021-22 ask any suggestion is coming through these activities for the curricular enrichment. There was through discussion

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on this agenda point and all members are unanimously agreed to not to change in course curriculum regarding above, however, following suggestions have proposed:

S.No.	Feedback of various committees	ARC Review	Recommendation for BOS
a)	Cultural committee To explore the talent of students for extracurricular activities it is suggested to incorporate hobby class in the time table.	Suggestion forwarded to time table coordinator in SOA.	Suggestion not related with moderation course curriculum of UG and PG degree programmes.
b)	Extension committee Some electric devices like microphone, sound amplifier, speakers may be provided	Demands for these items may be forwarded to Store and Purchase, Uttaranchal University	Suggestion not related with moderation course curriculum of UG and PG degree programmes.
c)	Student club Books for competitive exams should be available in library	Course instructors have been suggested to provide list of books for competitive examination to the Chief librarian of central library of the university	Suggestion not related with moderation course curriculum of UG and PG degree programmes.

Agenda No. 06: To review the recommendations of CRC in competence with regularity bodies, UGC, State Government, ICAR or any other similar and authorized body.

The agenda point was thoroughly discussed among the members in length and unanimously agreed not to change in course curriculum of UG and PG degree programmes and wait for upcoming guidelines/recommendations of ICAR 6th Dean's Committee for further consideration.

Agenda No. 07: To review the recommendations of CRC in respect to courses taught by course instructor during the preceding academic session and forwarding recommendations if any for change of Vision, Mission, philosophy, polices of SOA and programme structure, PEOs, POs, and PSOs of UG and PG degree programmes of Agriculture

Member secretary explained the review and recommendations of CRC regarding any change in Vision, Mission, philosophy, polices of SOA and course structure, PEOs, POs, PSOs and COs of UG and PG degree programmes of Agriculture. There was a thorough discussion among the members up on the recommendations presented by CRC and unanimously agreed to accept the following points to propose to the BOS meeting of UG and PG degree programmes of Agriculture.



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- 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. 08: To review the suggestions and recommendations received from CRC in respect to academic flexibility, creativity and innovation in curriculum development of UG and PG degree programme of Agriculture as per the local, regional, national and global needs.

The member secretary explain the review and recommendation of CRC in respect to academic flexibility, creativity and innovation in curriculum development of UG & PG agricultural degree programmes and requested ARC members for their own feedback if any. The agenda point was discussed in length and considering the contemporary needs of the local, regional, national and global needs in agriculture following recommendations have been proposed:

1. Following new elective courses may be prepared and offer to the students of B.Sc. (Hons.) Agriculture degree programme:
 - a) Artificial Intelligence in Agriculture
 - b) Fresh Water Aquaculture Technology
 - c) Dairy science
 - d) Hill Agriculture
2. Following new elective courses may be prepared and offer to the students of M.Sc. Ag. (Agronomy) degree programme:
 - a) Plant tissue culture
 - b) Soil health management
3. Following new elective course may be prepared and offer to the students of M.Sc. Ag. (Plant Pathology) degree programme:
 - a) Disease Resistance, Epidemiology and Forecasting of Plant Diseases
4. Following new value-added courses may be prepared to offer the UG and PG students of Agriculture:
 - a) Nutra and Pharmaceutical Properties of Mushrooms (AGVAC-29)
 - b) Insect Farming Technology (AGVAC-30)
5. The marks of the course "Educational Tour (ANC-321)" offered in B.Sc. (Hons.) Agriculture degree programme may be considered for evaluation only in Semester-6th, however, education tour for the students may be organised in Semester-4, 5, or 6.

All the suggestions/ recommendations were discussed one by one in length and unanimously agreed to propose the upcoming BOS of UG and PG degree programmes.

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Agenda No. 09: To review the suggestions and recommendations received from CRC for the feedback from different stakeholders.

The member secretary explained the suggestions and recommendations received from CRC for the feedback collected from different stakeholders to be proposed for the consideration of changes in the course curriculum of UG and PG degree Programmes of Agriculture. All members discussed on those points of CRC in length and following recommendations were proposed to the BOS of UG and PG degree programmes:

Recommendations for BOS of B.Sc. (Hons.) Agriculture

S. No.	Course Name	Course Code	Sem.	Feedback	CRC Review	Recommendation for BOS
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 BOS for addition of topic in course curriculum
2.	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	Proposed to the BOS committee for addition of topic in course curriculum
3.	--	--	--	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	Proposed to the BOS committee for addition of topic in course curriculum
4.	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	Proposed to the BOS committee for upgradation of new practical hrs has proposed as "24 Hrs" 12 experiments
5.	Fundamental of	AEM-121	1	Topic like "Advance	Discussed in length and topic "Market	Proposed to the BOS committee



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S. No.	Course Name	Course Code	Sem.	Feedback	CRC Review	Recommendation for BOS
	Agricultural Economics			techniques and field-based study” may be added	Survey & Visit to local and national banks like RRB, Cooperative and Commercial banks” proposed for addition in Unit-V of course curriculum	for addition of topic in course curriculum
6.	Production Technology for Vegetables & Spices	AHS-211	3	Text Books may be revised	Following new books have been suggested: Vishnu Swarup, 2014. Vegetable Science and Technology in India. Kalyani Publishers Basic concepts of vegetable science. Neeraj Pratap Singh. CBS Publishers.	Proposed to the BOS committee for addition of topic in course curriculum
7.	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	Proposed to the BOS committee for addition of topic in course curriculum
8.	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 • local breeds of cow: Badri-their distribution and adaptation	Proposed to the BOS committee for addition of topic in course curriculum



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S. No.	Course Name	Course Code	Sem.	Feedback	CRC Review	Recommendation for BOS
					<ul style="list-style-type: none"> Local breed of poultry: Uttara chicken - their distribution and adaptation 	
9.	Fundamentals of Plant Pathology	APP-121	2	<p>Addition of following topics suggested:</p> <p>Principles and methods of plant disease management.</p> <p>Nature, chemical combination, classification, mode of action and formulations of fungicides and antibiotics</p>	Discussed in length and agreed to add the suggested topic in Unit-IV	Proposed to the BOS committee for addition of topic in course curriculum
10.	Fundamentals of Horticulture	AHS-111	1	<p>Addition of following topics suggested:</p> <p>Case study: use of beneficial insects as pollinator</p>	Discussed in length and agreed to add the suggested topic in Unit-III	Proposed to the BOS committee for addition of topic in course curriculum
11.	Principles of organic Farming	AGA-323		<p>Following topic may be added in practical syllabus</p> <p>Cultivation of Azolla</p>	Discussed in length and agreed to propose for addition of topic in course curriculum	Proposed to the BOS committee for addition of topic in course curriculum
12.	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	Proposed to the BOS for addition of suggestion in Practical syllabus

Recommendations for BOS of M.Sc. Ag. (Agronomy)



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S. No.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
1.	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	Proposed to the BOS committee for addition of topic in course curriculum
2.	Disaster Management	NCPH-501	1/2/3 (Elective course)	Some case studies may be added	Agreed to add following case studies: • Case studies of cloudburst in Uttarakhand • Case of causes of Landslides in Uttarakhand	Proposed to the BOS committee for addition of topic in course curriculum
3.	Principles and Practices of Weed Management	MSAG A-515	2	Case study on integrated weed management may be added	Agreed to add following case studies: • Case study of Integrated Weed Management in Uttarakhand	Proposed to the BOS committee for addition of topic in course curriculum
4.	Technical Writing and Communication Skills	NCHU-501	1/2/3 (Elective course)	Type and style of bibliography may be specified separately	Agreed to add following topic: • Types and style of bibliography may be added in course curriculum	Proposed to the BOS committee for addition of topic in course curriculum
5.	Agronomy of Major Cereals and Pulses (Kharif & Rabi)	MSAG A-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 Case study: Modern technology used in any cereal and pulse crop in Uttarakhand	Proposed to the BOS committee for addition of topic in course curriculum



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S. No.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
6.	Modern Concepts in Crop Production	MSAG A-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 topic of case study in Unit-IV of course curriculum	Proposed to the BOS committee for addition of topic in course curriculum
7.	Agro-Meteorology and Crop Weather Forecasting	MSAG A-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	Proposed to the BOS committee for addition of topic in course curriculum
8.	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	Proposed to the BOS committee for addition of topic in course curriculum
9.	Master's Research	MSAG A-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	Proposed to the BOS committee for moderation of academic guidelines of M.Sc: Ag. (Agronomy)
10.	Modern Concepts in Crop Production	MSAG A-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 input cost of cultivation for field crops and estimation of market price"	Proposed to the BOS committee for addition of topic in course curriculum



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Recommendations for BOS of M.Sc. Ag. (Plant Pathology)

S. No.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
1.	--	--	--	Value added course (VAC) on "Advance Technology in Mushroom Farming" may be offered again	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	Proposed to the BOS committee for addition of topic in course curriculum
2.	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	Proposed to the BOS committee for addition of topic in course curriculum
3.	Biological Control of Plant Diseases	MSAG P-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	Proposed to the BOS committee for addition of topic in course curriculum
4.	Detection and Diagnosis of Plant Diseases	MSAG P-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	Proposed to the BOS committee for addition of topic in course curriculum
5.	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	Proposed to the BOS committee for addition of topic in course curriculum
6.	Master's Research	MSAG A-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	Proposed to the BOS committee for addition of topic in course curriculum



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S. No.	Course Name	Course Code	Sem.	Feedback	ARC Review	Recommendation for BOS
					guidelines of the PG degree Programmes	

Agenda No. 10: Any other agenda with the permission of the chair.

The chairman asked for any other agenda for discussion.

1. Mr. Amit Bhatt suggested for an open elective course on "Indoor Plantation of Plants and Care" that may be prepared and offered to non-agriculture students of other department through the University Basket of open elective courses. The minimum number of students' registration has recommended 30 to offer this course. The suggestion was welcomed and discussed in length and all members unanimously agreed to proposed to Dean, Academic Affairs for consideration.
2. Some training modules like Sericulture, mushroom cultivation, organic farming, Beekeeping, and Tissue-culture may be developed. Suggestion forwarded to criterion - I

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

Prof. (Dr.) Mahipal Singh
Chairman, CRC

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Attendance Sheet of ARC meeting

Date of Meeting: 12.05.2022

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, Uttaranchal University, Dehradun	Chairman	9084026689	
2.	Dr. Rajendra Prasad	Associate Professor, SOA, Uttaranchal University, Dehradun	Member	9456110665	
3.	Dr. Rachna Juyal	Assistant Professor, SOA, Uttaranchal University, Dehradun	Member	9690008623	
4.	Dr. Atin Kumar	Assistant Professor, SOA, Uttaranchal University, Dehradun	Member	7895507224	
5.	Dr. Awaneesh Kumar	Assistant Professor, SOA, Uttaranchal University, Dehradun	Member	9758016248	
6.	Mr. Sunil Prakash	Assistant Professor, SOA, Uttaranchal University, Dehradun	Member	7060547082	
7.	Mr. Amit Bhatt	Assistant Professor, SOA, Uttaranchal University, Dehradun	Member	7409522235	
8.	Mr. Jayanti Ballabh	Assistant Professor, SOA, Uttaranchal University, Dehradun	Member	9997322915	
9.	Dr. Neha Saini	Assistant Professor, SOA, Uttaranchal University, Dehradun	Member Secretary	9897871403	

Prof. (Dr.) Mahipal Singh
Chairman, CRC
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