



# UTTARANCHAL UNIVERSITY

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



## School of Agriculture (SOA)

Ref. No.: UU/SOA/DIQAC/89(2)

Date: 09/05/2022

### Action Taken Report (ATR) of Feedback Analysis Report of B.Sc. (Hons.) Agriculture Degree Programme Academic Year 2021-2022

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 some 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>1<sup>st</sup></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>6<sup>th</sup></td> <td>Cultivation of Azolla</td> </tr> <tr> <td>B.Sc. (Hons.) Agriculture</td> <td>National Service Scheme (NSS) (ANC-113)</td> <td>1<sup>st</sup></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"> <li>• Cloudburst and its causes</li> <li>• Case of causes of Landslides in Uttarakhand</li> </ul> </td> </tr> <tr> <td>B.Sc. (Hons.) Agriculture</td> <td>Fundamental of Agricultural Economics (AEM-121)</td> <td>1<sup>st</sup></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>3<sup>rd</sup></td> <td> <ul style="list-style-type: none"> <li>• local breeds of cow: Badri- their distribution and adaptation</li> <li>• Local breed of poultry: Uttara chicken - their distribution and adaptation</li> </ul> </td> </tr> </tbody> </table>	Degree Programme	Course	Semester	Topic	B.Sc. (Hons.) Agriculture	Fundamentals of Soil Science (ASS-111)	1 <sup>st</sup>	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 <sup>th</sup>	Cultivation of Azolla	B.Sc. (Hons.) Agriculture	National Service Scheme (NSS) (ANC-113)	1 <sup>st</sup>	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"> <li>• Cloudburst and its causes</li> <li>• Case of causes of Landslides in Uttarakhand</li> </ul>	B.Sc. (Hons.) Agriculture	Fundamental of Agricultural Economics (AEM-121)	1 <sup>st</sup>	Advance techniques and field-based study	B.Sc. (Hons.) Agriculture	Livestock and Poultry Management (AAH-211)	3 <sup>rd</sup>	<ul style="list-style-type: none"> <li>• local breeds of cow: Badri- their distribution and adaptation</li> <li>• Local breed of poultry: Uttara chicken - their distribution and adaptation</li> </ul>
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	B.Sc. (Hons.) Agriculture	Fundamentals of Plant Pathology (APP-121)	2 <sup>nd</sup>	<ul style="list-style-type: none"> <li>Principles and methods of plant disease management</li> <li>Nature, chemical combination, classification, mode of action and formulations of fungicides and antibiotics</li> </ul>
	B.Sc. (Hons.) Agriculture	Fundamentals of Horticulture (AHS-111):	1 <sup>st</sup>	<ul style="list-style-type: none"> <li>Case study: use of beneficial insects as pollinator</li> </ul>
	M.Sc. Ag. (Agronomy)	Principles and Practices of Weed Management (MSAGA-515)	2 <sup>nd</sup>	<ul style="list-style-type: none"> <li>Case study of Integrated Weed Management in Uttarakhand</li> </ul>
	M.Sc. Ag. (Agronomy)	Agronomy of Major Cereals and Pulses (Kharif & Rabi) (MSAGA-516)	2 <sup>nd</sup>	<ul style="list-style-type: none"> <li>Case study: Modern technology used in any cereal and pulse crop in Uttarakhand</li> </ul>
	M.Sc. Ag. (Plant Pathology)	Biological Control of Plant Diseases (MSAGP-510)	3 <sup>rd</sup>	<ul style="list-style-type: none"> <li>Case study on biological control of plant diseases</li> </ul>
	B.Sc. (Hons.) Agriculture	Practical Crop Production – II (Rabi crops) (AGA-322)	6 <sup>th</sup>	<ul style="list-style-type: none"> <li>Consider local crop species of Uttarakhand (like millets) and hill farming methods in Practical crop production</li> </ul>
	M.Sc. Ag. (Agronomy)	Modern Concepts in Crop Production (MSAGA-513)	1 <sup>st</sup>	<ul style="list-style-type: none"> <li>Case study of Integrated farming system; case study of organic farming</li> </ul>
	M.Sc. Ag. (Agronomy)	Agro-Meteorology and Crop Weather Forecasting (MSAGA-511)	1 <sup>st</sup> /2 <sup>nd</sup> /3 <sup>rd</sup> (Elective course)	<ul style="list-style-type: none"> <li>Rain distribution in Uttarakhand</li> </ul>
	M.Sc. Ag.	Biological	1 <sup>st</sup> /2 <sup>nd</sup> /3 <sup>rd</sup>	<ul style="list-style-type: none"> <li>Case study on</li> </ul>

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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 <sup>nd</sup>	<ul style="list-style-type: none"> <li>Identification of plant pathogens” may be added in practical syllabus</li> </ul>
		M.Sc. Ag. (Agronomy)	Modern Concepts in Crop Production (MSAGA-513)	1 <sup>st</sup>	<ul style="list-style-type: none"> <li>Factors affecting the input cost of cultivation for field crops and estimation of market price</li> </ul>
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 (AGVAC-25) may be offered again in upcoming session.”	Suggestion reviewed and accepted to propose to the upcoming CRC meeting.			
5.	Textbooks of Production Technology for Vegetables & Spices (AHS-211) may be revised be revised.	Suggestion reviewed and following new books have been suggested: <ul style="list-style-type: none"> <li>Vishnu Swarup, 2014. Vegetable Science and Technology in India. Kalyani Publishers</li> <li>Basic concepts of vegetable science. Neeraj Pratap Singh. CBS Publishers</li> </ul>			
6.	In campus training facilities may be developed.	Suggestion reviewed and accepted to propose to the upcoming CRC meeting.			
7.	Remedial courses may be offered as noncompulsory courses.	Suggestion not considered because, as per recommendation of ICAR Fifth Deans’ Committee report, Remedial courses shall be offered as compulsory courses.			
8.	Application method of fungicides in field	Suggestion reviewed and following topic proposed to upcoming meeting of CRC for adding in Fundamentals of Plant Pathology (APP-121) :			

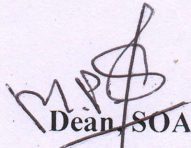
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	crops may be added in syllabus.	<ul style="list-style-type: none"> <li>Preparation of Recommended dose of fungicides may be added</li> </ul>
9.	Calculation of cost of cultivation for field crops may be included in syllabus.	<p>Suggestion reviewed and following topic proposed to upcoming meeting of CRC for adding in Modern Concepts in Crop Production (MSAGA-513):</p> <ul style="list-style-type: none"> <li>Factors affecting the input cost of cultivation for field crops and estimation of market price</li> </ul>
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.	PG 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.

Copy to:

1. The Vice Chancellor, Uttaranchal University
2. The Director, IQAC, Uttaranchal University
3. The Dean, Academic Affairs, Uttaranchal University
4. Office file

  
 Dean SOA  
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Ref. No.: UU/SOA/DIQAC/89(1)

Date: 05/05/2022

### Feedback Analysis Report of B.Sc. (Hons.) Agriculture Degree Programme Academic session 2021-2022

School of Agriculture (SOA) has collected feedback from the different stakeholders i.e., Faculty members, Students, Alumni and Industry expert on the curriculum in pursuit of continuous improvements to comply with industry, social and environmental requirements. On the basis of feedbacks and suggestions received (Annexure-1) SOA proposed the following recommendations:

S. No.	Recommendations
1.	Course curriculum of some courses may be revised to address the local and regional needs.
2.	Credit hrs of some courses need to be revised.
3.	A period for Physical Education & Yoga Practices/Yoga activities in morning/evening may be assigned.
4.	Value added course "Soil and Water Management in Agro - Forestry (AGVAC-25) may be offered again in upcoming session.
5.	Textbooks of Production Technology for Vegetables & Spices (AHS-211) may be revised be revised.
6.	In campus training facilities may be developed.
7.	Remedial courses may be offered as noncompulsory courses.
8.	Application method of fungicides in field crops may be added in syllabus.
9.	Calculation of cost-of cultivation for field crops may be included in syllabus.
10.	Principles of RT-PCR may be included in the course curriculum.
11.	Students may be explored for some basic computational software for statistical data analysis
12.	Type and style of bibliography may be explained to students
13.	Students should be aware about indexing of journals in Scopus.

Submitted to the Dean, SOA for necessary action please.

Encl: Feedback Analysis Report

Copy to:

1. The Vice chancellor, Uttaranchal University
2. The Director, IQAC, Uttaranchal University
3. The Dean, Academic Affairs, Uttaranchal University
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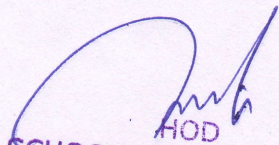
Annexure-1

### Feedback Analysis Academic Year 2021-22 B.Sc. (Hons.) Agriculture

#### STUDENTS' FEEDBACK ON CURRICULUM

For the academic year 2021-2022, student's feedback is sought from 253 students of B.Sc. (Hons.) Agriculture about the curriculum and teaching learning processes which cover nine parameters including sequence of the content, uniformity of syllabus, orientation of course curriculum towards career, development of skills, concepts, knowledge and analytical abilities, justification of curriculum to the assigned lectures, future scope, balance between theory and practical and the encouragement for the self and extra learning.

It was observed that 78% student respondents were agreed with sequence of the content is well organized, the course curriculum was career oriented, and the course curriculum contained the scope of relevant activities, respectively. However, 77% of students agreed that the curriculum justified the assigned lectures, the course curriculum had good balance between theory and practical applications, the syllabus was uniform in terms of curriculum load, learning values were inclined for development of skills, concepts, knowledge and analytical abilities, the course content encouraged the self and extra curriculum learnings, the course content was updated rationally and the course curriculum covered the latest developments in relevant areas.

  
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### FACULTY FEEDBACK ON CURRICULUM

Faculty feedback was taken on various aspects of course curriculum for balanced between theory and practical, advancement of course contents, desired scope in industry, course credit allocation, development of skill, employability and entrepreneurship, enhancement of student's knowledge and comprehension, relevancy of books and requirement of moderation.

It was observed that 96% of faculty member were agreed that the course content was in conformity with the course objectives and outcomes, the course curriculum was well balanced between theory and/or practical/field work knowledge, and the course content had been presented from basic to advance, respectively. Total of 90 % of faculty members agreed that the current course content was sufficient to fulfil the gap between industry and academics and 96% were agreed that credit allocation was rational to the coverage of the course curriculum. However, 94% of faculty members agreed that the curriculum had focus on skill development/ employability/ entrepreneurship, the course content had increased knowledge and interest in the subject area, the textbooks and reference books mentioned in the syllabus were relevant, but the list may be updated, respectively. They also suggested for some online study materials that may be provided to the students. Very few faculty members i.e., 25% agreed that the course curriculum needs moderation.

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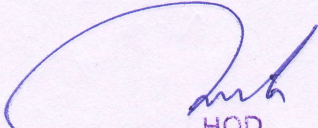


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### ALUMNI FEEDBACK ON CURRICULUM

Total 139 Alumni of B.Sc. Agriculture had given their feedback on different aspects of course curriculum including relevance of course on career progression, holistic development through sufficient trainings, seminars, value added courses and PDPs, hands-on training and internships work, Industry-academia relationship, efficiency of programme to build the opportunities in terms of employability, higher learning and entrepreneurial attitude and relevance of course curriculum to real life situation.

It was observed that majority of alumni i.e., 72% were agreed that the programme enhanced the ability of students to cope up with a challenging situation and to work in a team and 69% of alumni agreed that the course curriculum was appropriate for career progression, Research Work/ Project Work/Internships/Electives offered under the programme were challenging and constructive, the curriculum was sufficient to impart presentation, report writing and technical skills, and the curriculum was effective to build the opportunities in terms of employability, higher learning and entrepreneurial attitude, respectively. About 64% of alumni agreed that sufficient trainings, seminars, value added courses and PDPs were provided for holistic development of students, the programme involved experiential and participative learning, the curriculum offers courses with practical and hands-on learning experience and proper industry-academia relationship was maintained across the programme, respectively. Only 67% agreed that relevance of course curriculum to real life situation.

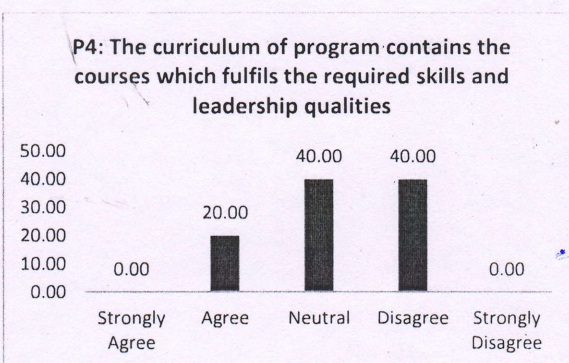
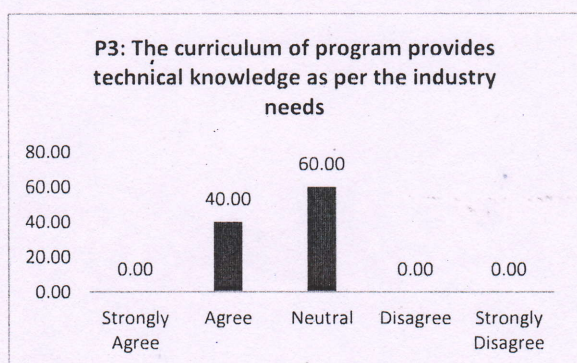
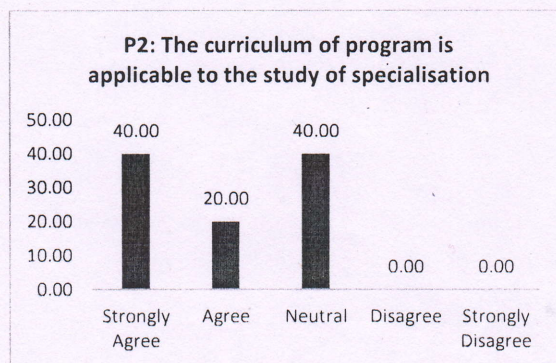
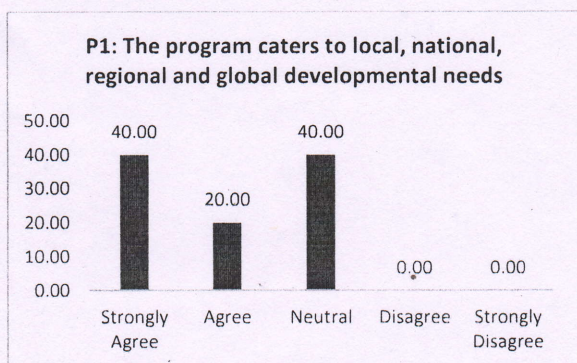
  
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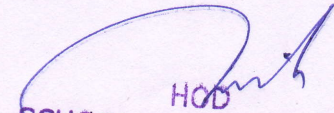


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### INDUSTRY FEEDBACK ON CURRICULUM

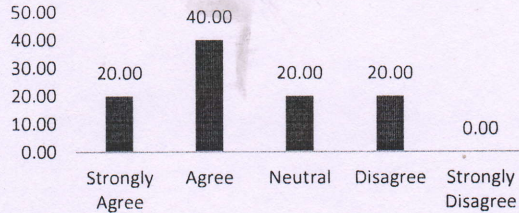
Among all industry/employer respondents, 60 % were agreed that the curriculum of B.Sc. (Hons.) Agriculture has fulfilled the needs of local, national, regional and global developmental; the curriculum of program was applicable to the study of specialisation; curriculum of the program aims to achieve human and ethical values, gender equality and environmental sustainability; and the program covered the aspects of employability. Among all industry respondents, 40 % were agreed that the curriculum of program provided technical knowledge as per the industry needs; the computer skills and soft skills are well incorporated in the curriculum; the analysis and judgemental ability of the student was enhanced by the curriculum; and the curriculum of the program helped in bridging the gap between industry and academia. About the feedback for curriculum of program contained the courses that have fulfilled the required skills and leadership qualities, it was neutral (40%) feedback in general and some of them were agreed (20%).



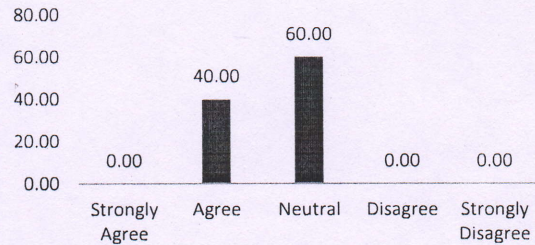
  
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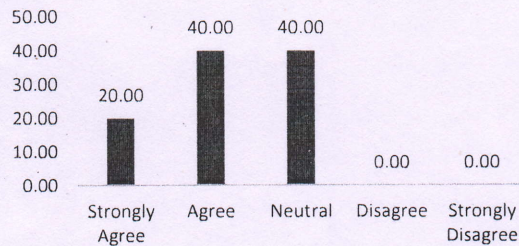
**P5: The curriculum of the program aims to achieve human and ethical values, gender equality and environmental sustainability**



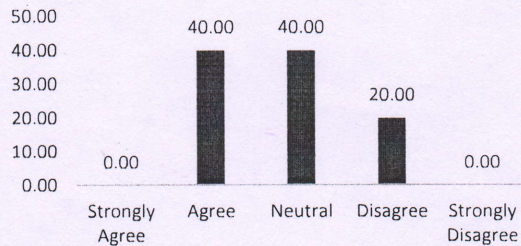
**P6: Computer skills and soft skills are well incorporated in the curriculum**



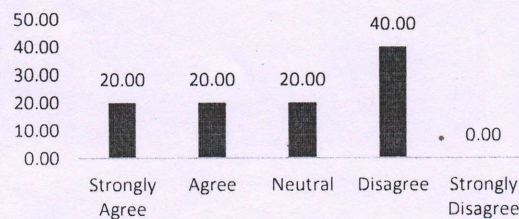
**P7: The program covers the aspects of employability**



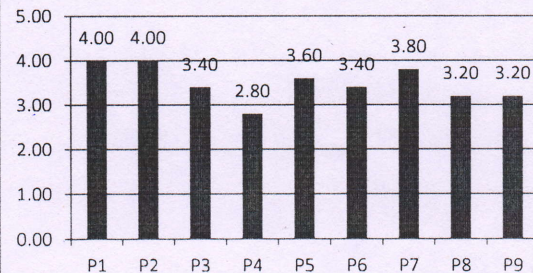
**P8: Analysis and judgemental ability of the student is enhanced by the curriculum**

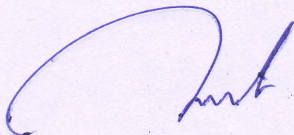


**P9: The curriculum of the program helps in bridging the gap between industry and academia**



### OVERALL RATING

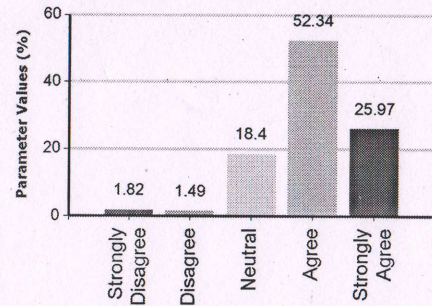


  
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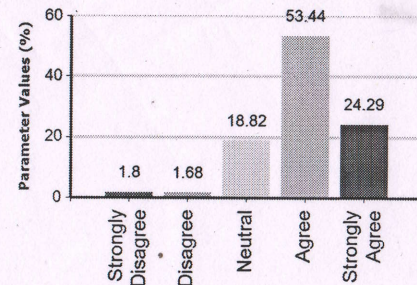
**ANALYSIS OF STUDENT FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)**

**Programme :** B.Sc. (Hons.) AGRICULTURE

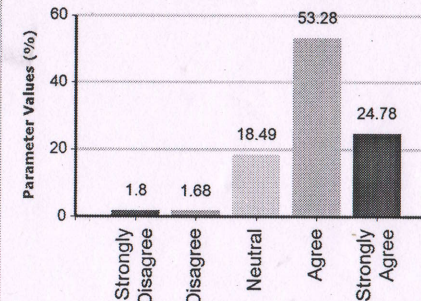
**The sequence of the content is well organized.**



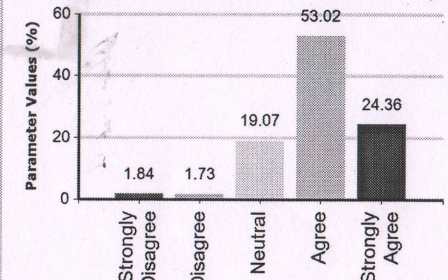
**Uniformity of syllabus in terms of curriculum load.**



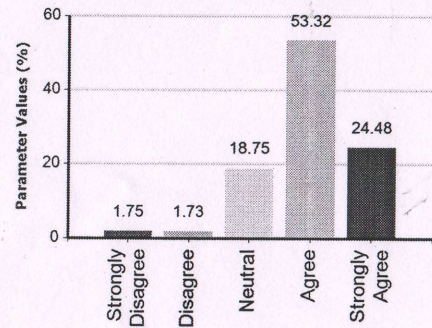
**Course curriculum is career oriented.**



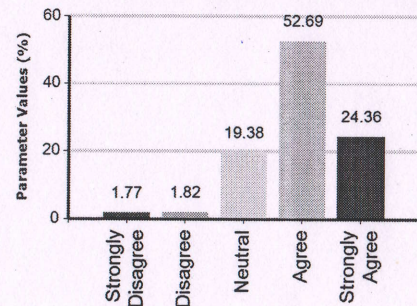
**Learning values are inclined for development of skills, concepts, knowledge and analytical abilities.**



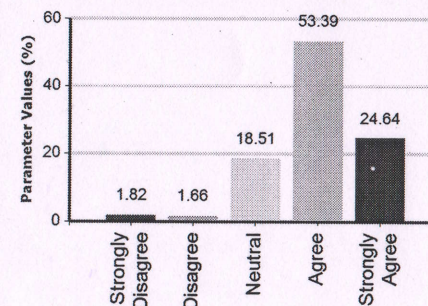
**The curriculum justifies the assigned lectures.**



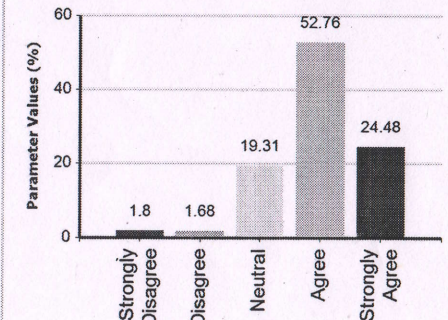
**The course curriculum covers the latest developments in relevant areas.**



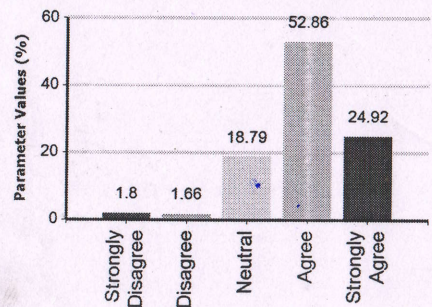
**Course curriculum contains scope of relevant activities.**



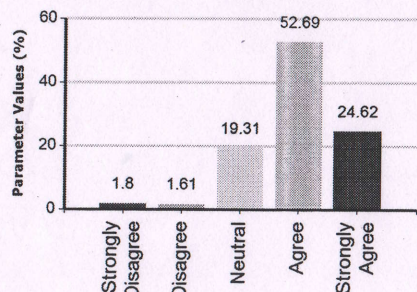
**The course content is updated rationally.**

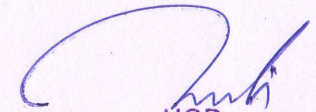


**The course curriculum has good balance between theory and practical applications.**

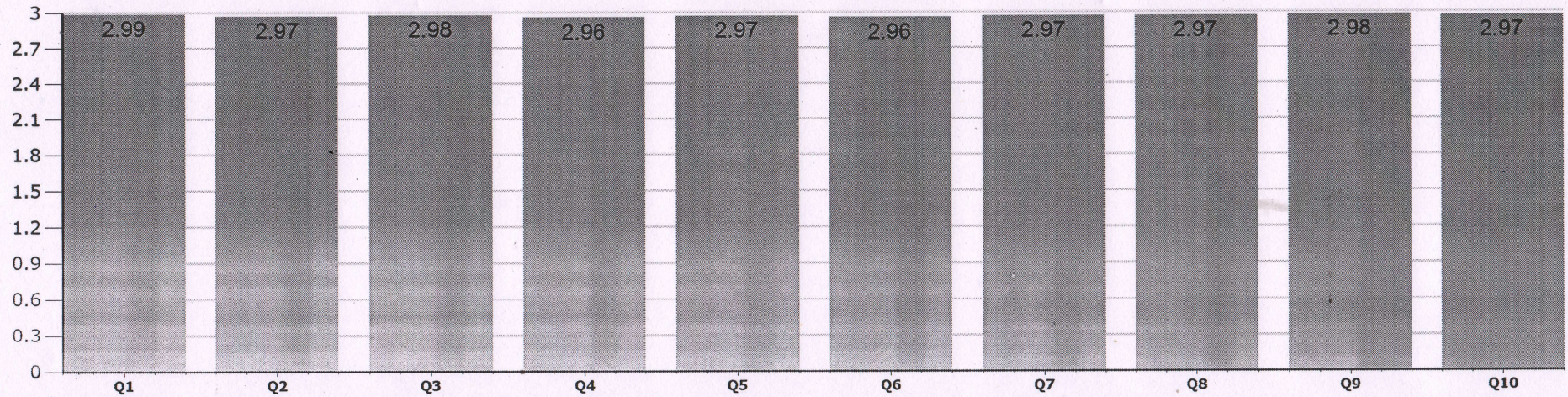


**The Course content encourages self and extra curriculum learning.**

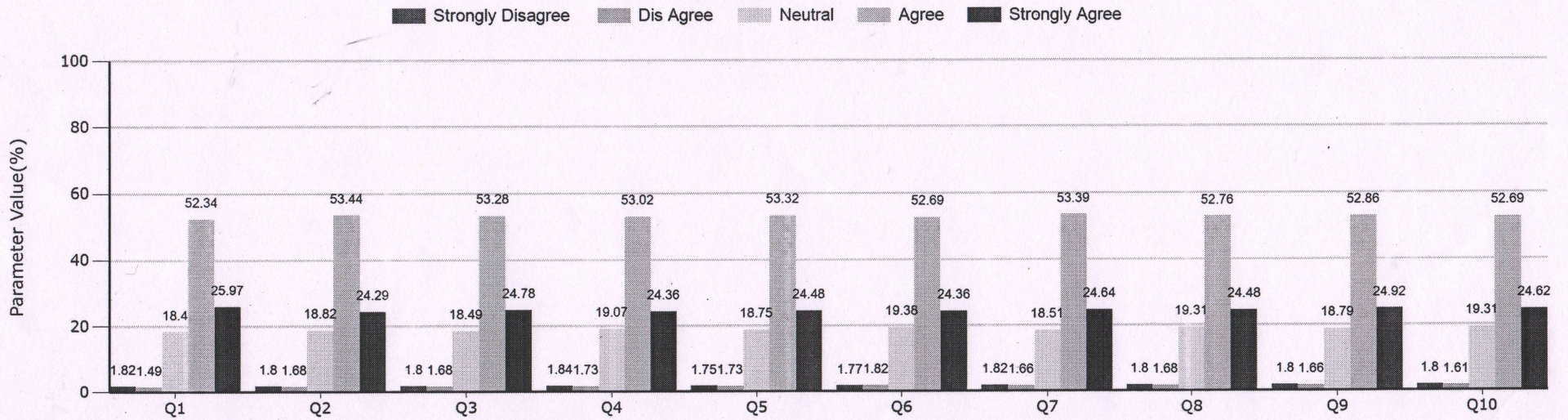


  
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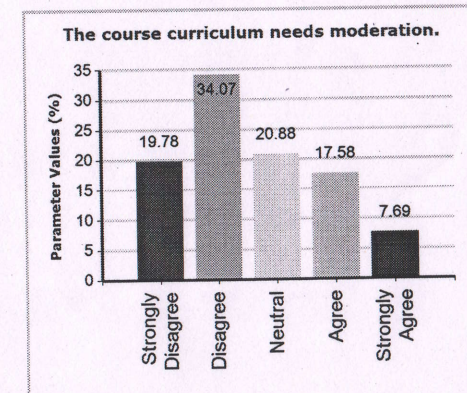
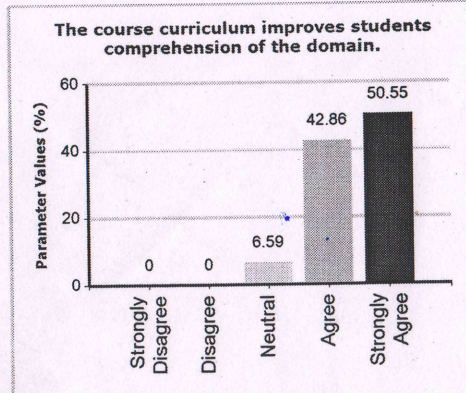
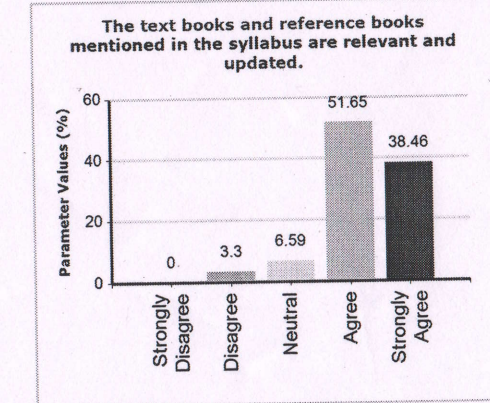
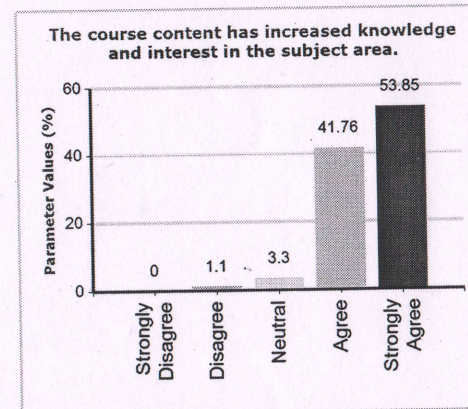
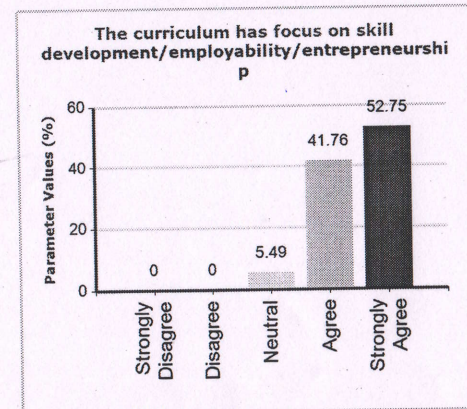
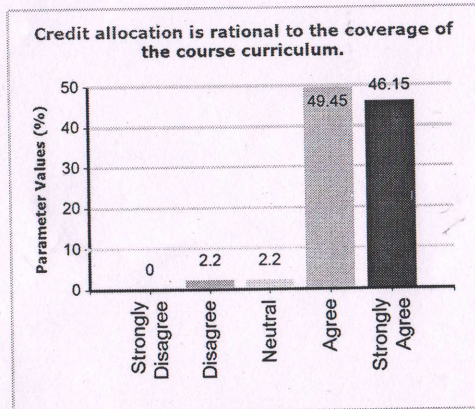
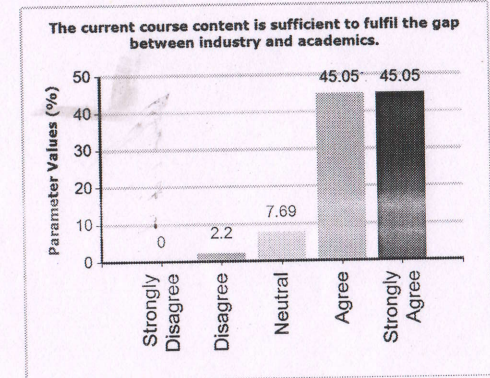
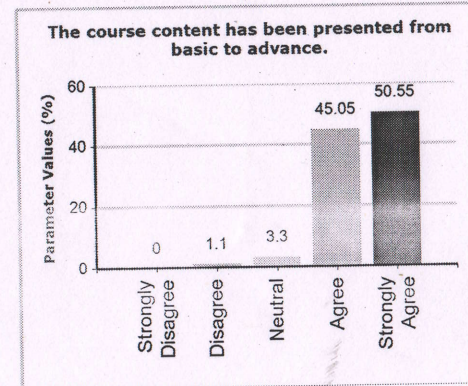
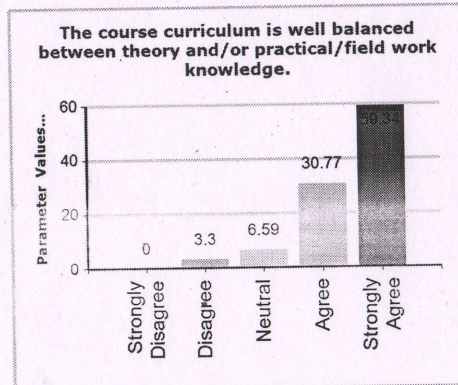
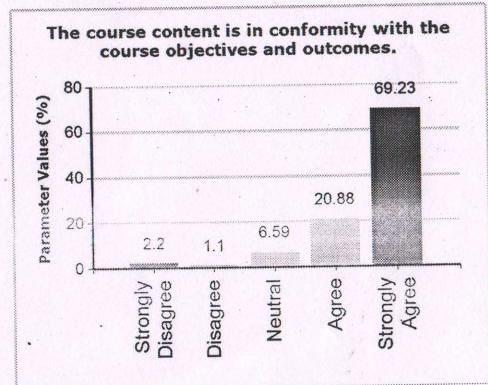
### Summary Chart



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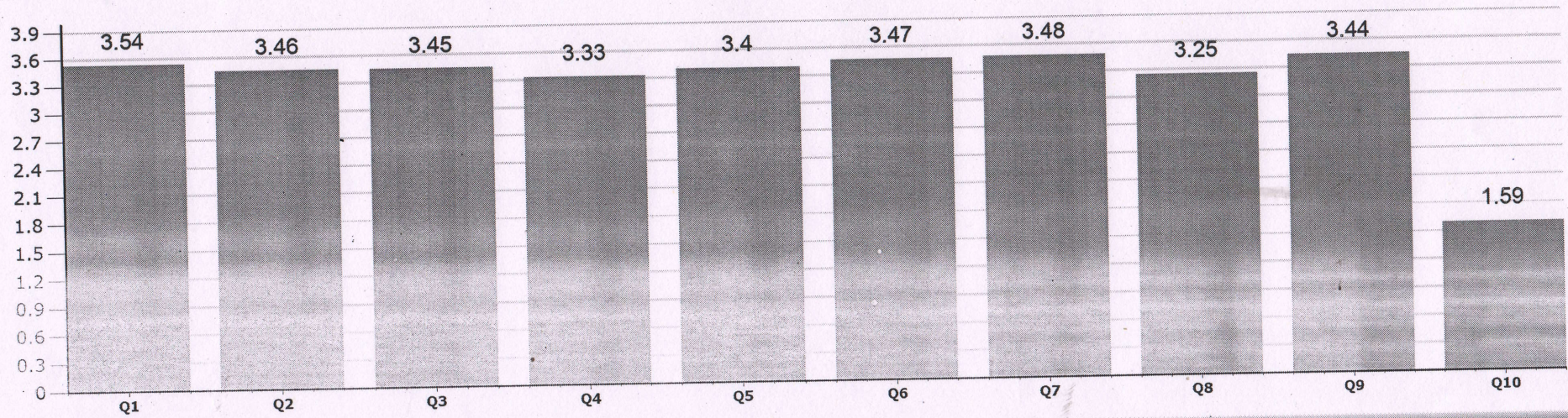
**ANALYSIS OF FACULTY FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)**

**Programme :** B.Sc. (Hons.) AGRICULTURE

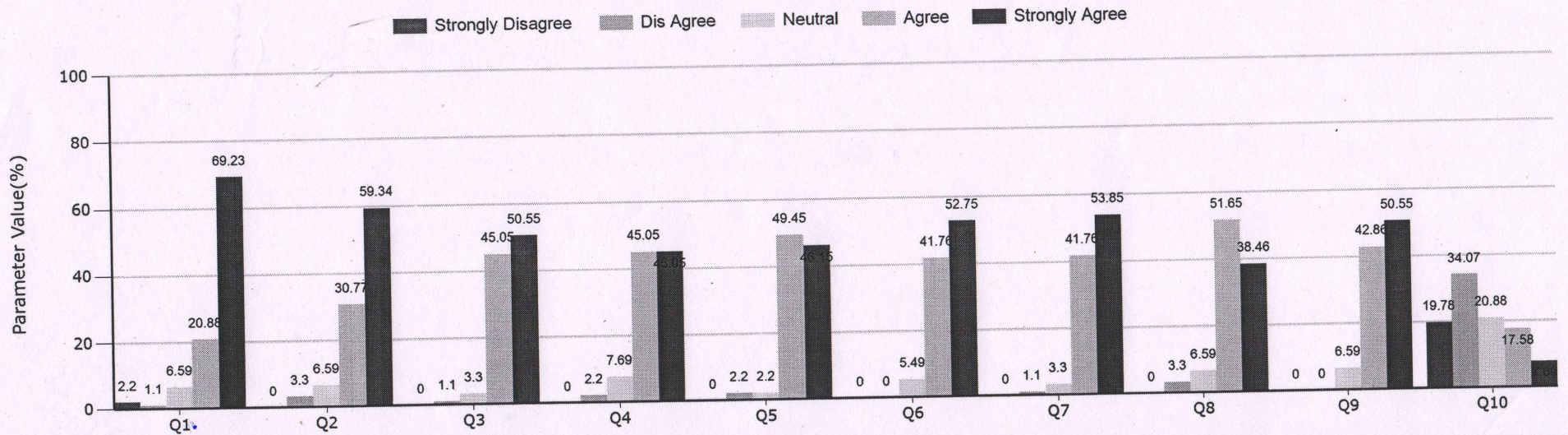


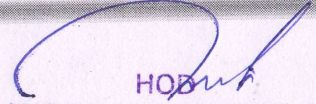
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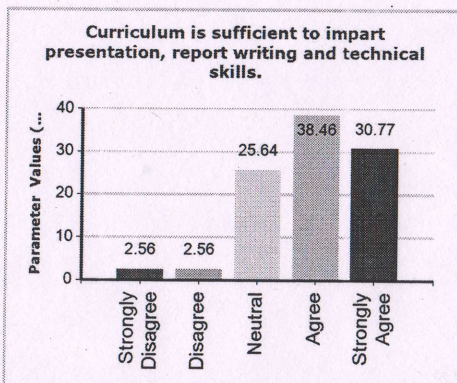
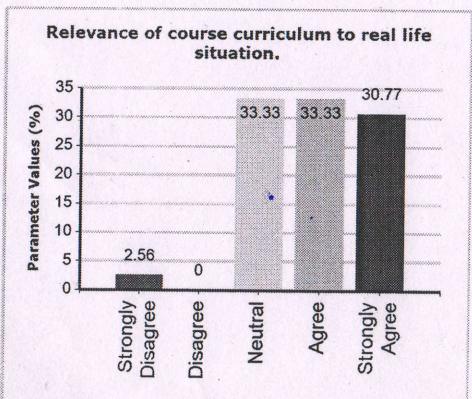
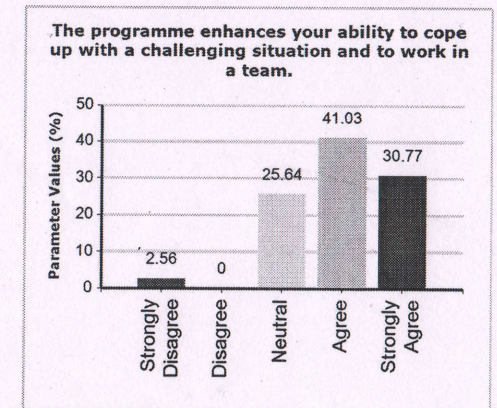
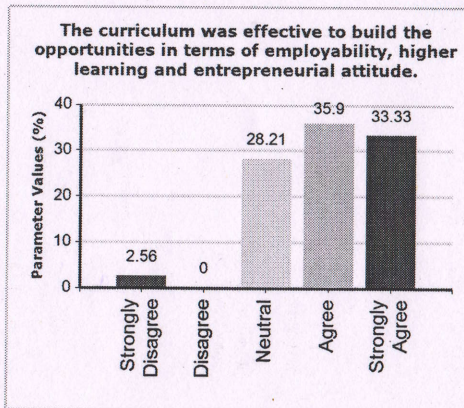
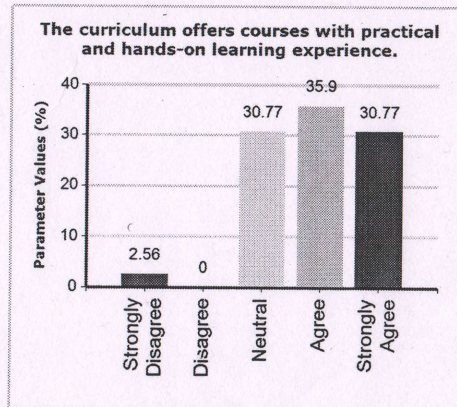
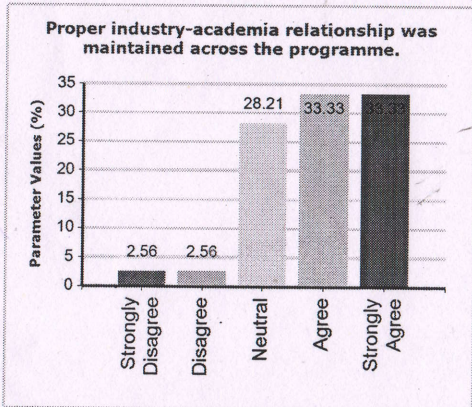
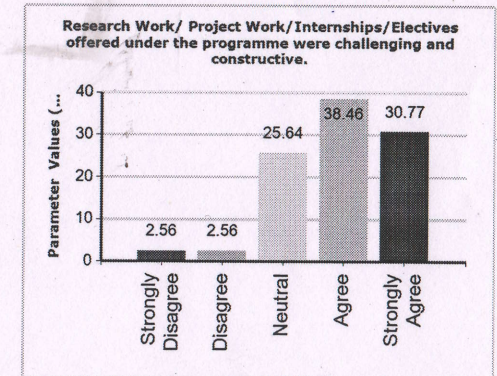
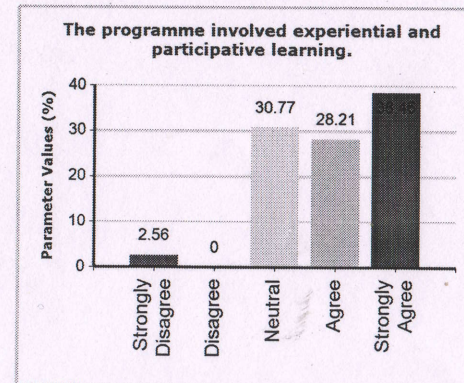
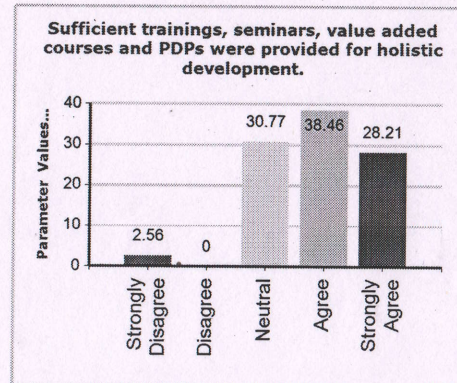
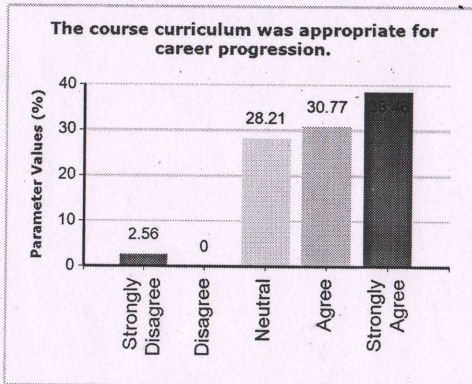
### Summary Chart

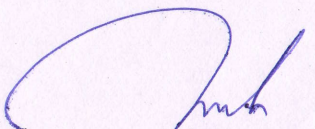


  
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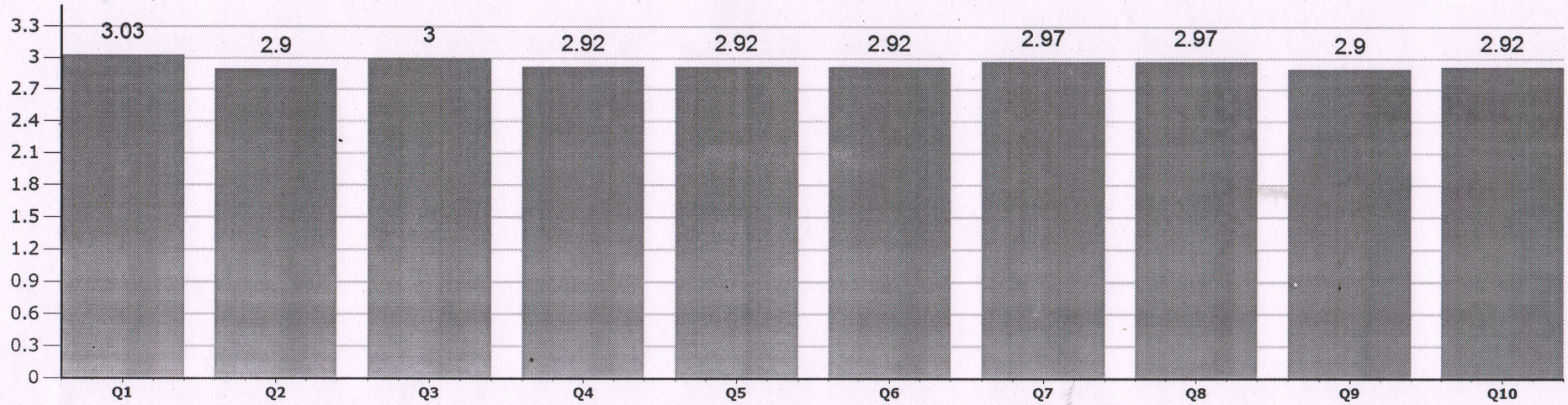
**ANALYSIS OF ALUMNI FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)**

**Programme :** B.Sc. (Hons.) AGRICULTURE

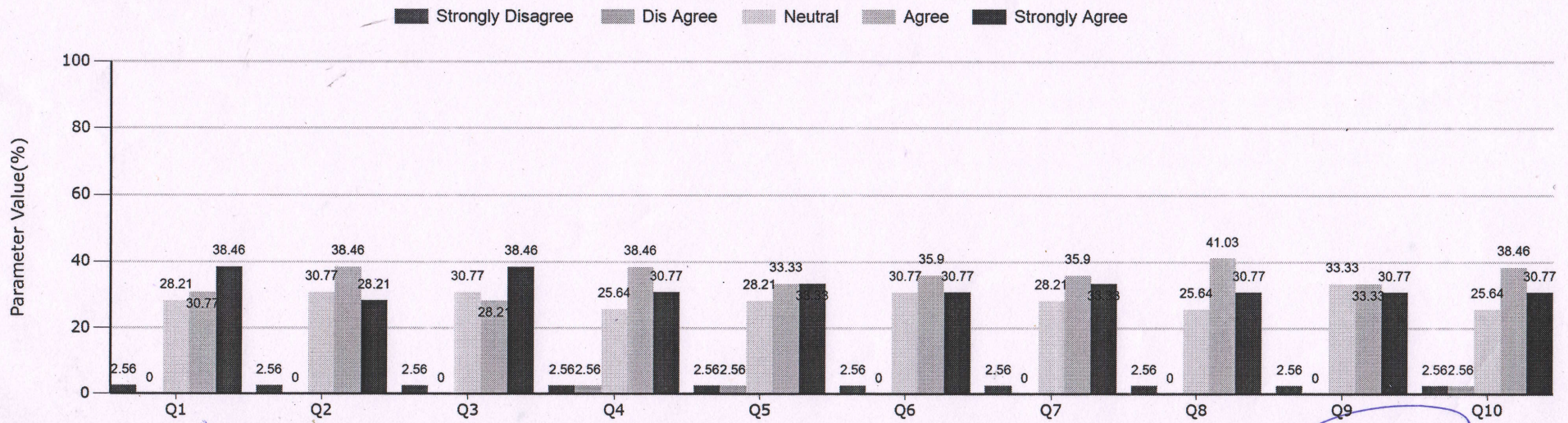


  
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### Summary Chart



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