

UU/ SALS/PHY/CRC/2022/1

Dated: 18/04/2022

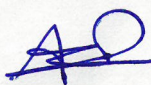
## Notice

All members of CRC of Physics discipline are hereby informed that the meeting of the same is scheduled on 22/04/2022 at 03:00 p.m. in Dean Office. Points to be discussed are as follows:

1. Review of Course contents of B.Sc. (Hons.) Physics and M.Sc. Physics.
2. Analysis of feedbacks received from different stockholders.

**All the members are requested to be kindly present for the same**

SN	Name of Faculty	Designation	Role
1	Prof. Ajay Singh	Dean SALS	Chairperson
2	Prof. B S Rawat	Professor	Member
3	Dr. V. K. Srivastava	Professor	Member
4	Dr. Ajaib Singh	Assistant Professor	Member
5	Dr. Awadhesh K Dubey	Assistant Professor	Member Secretary
6	Dr.Pankaj K Tripathi	Assistant Professor	Member,
7	Ms. Debanjali Barman Roy	Assistant Professor	Member
8	Dr. Bharti Ramola	Professor	Member
9	Dr. Sunil Ghildiyal	Associate Professor	Member

  
**Dr. Awadhesh K Dubey**  
(Member Secretary)  
CRC/Physics

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1. UU IQAC Cell
2. All DIQAC members
3. Notice Board

Department  
Office of  
Uttarakhand  
University

## B.Sc. (Hons.) Physics

### Feedback Analysis Report (Academic Year: 2021-22)

Date: 22/04/2022

The department has collected feedback from the stakeholders' viz. faculty, students, alumni and employers on the curriculum in pursuit of continuous improvements to comply with industry, social and environmental requirements etc. The details of the feedback received are as follows.

The curriculum review committee (CRC) proposed the following recommendations on the basis of feedback and suggestions received:

S.No.	Recommendations
1.	Faculty suggested for upgradation/modification of syllabus and evaluation scheme of B.Sc. (Hons.) Physics
2.	Expert suggested to introduce B.Sc. (Hons.) Physics with research-4year Programme with multiple entry and exit provision.
3.	Expert suggested for incorporation of NEP-2020 in the said mentioned programme.
4.	Students suggested for updation/modifications in the offered experiments of the course for the purpose of exploration and experimental learning as per modifications in the course contents.
5.	Alumni suggested for the introduction of a basic course of atomic and molecular physics to understand the properties of matter and computational physics to undertake various problems in physical and mathematical sciences using programming, numerical methods and simulations.
6.	Expert suggested for incorporation of more skill enhancement courses as per recent industrial demand.
7.	Students suggested for incorporation/reconsideration of value added course.
8.	Faculty suggested that there is no need of modification/updation in the contents of other ongoing courses.


Dr. B S Rawat  
Head, Physics Discipline

Head

Department of Physics  
Applied and Life Sciences  
Uttaranchal University, Dehradun (U.K.)

Copy to:

1. Director IQAC

  
Dean & Principal  
Applied and Life Sciences  
Uttaranchal University, Dehradun (U.K.)

## Action Taken Report (Academic Year: 2021-22) B.Sc. (Hons.) Physics

Date: 11 June 2022

On the basis of the feedback received, the points were discussed and the following actions were taken to resolve the recommendations of the stakeholders:

S.N	Recommendations	Action Taken
1.	Up-gradation/modification of syllabus and evaluation scheme of B.Sc. (Hons.) Physics	Up-gradation/modification was carried out in the syllabi of Mathematical Physics-I (TBHP-101), Electricity and Magnetism (TBHP 201), Waves and Optics (TBHP 202), Digital Systems & Applications (TBHP-303), Mathematical Physics-III (TBHP 401), Elements of Modern Physics (TBHP-402), Analog Systems & Applications (TBHP-403), Quantum Mechanics and Applications (TBHP-501), English Communication (TBHP-104), Environmental Science (TBHP 204), Human Ethics And Professional Values (TBHP-205), Computer Concepts & Programming (TBHP-103(1)), Introduction to object oriented programming using python (TBHP -203(1)), Classical Mechanics (TBHP-504(2)), Nuclear and Particle Physics (TBHP-603(1)), Energy Studies (TBHP-305C), Aptitude And Reasoning Skills (TBHP-305F), Renewable Energy and Energy Harvesting (TBHP-405 A). Credits of courses having six credits and a lab course having two credits are modified to five and one respectively.
2.	Introduction of B.Sc. (Hons.) Physics with research-4year Programme with multiple entry and exit provision	B.Sc. (Hons.) Physics with four years research Programme with multiple entry and exit provision has been incorporated with extra 46 credits.
3.	Incorporation of the suggestions of NEP-2020 in the said mentioned programme.	Suggestions of NEP-2020 viz. multiple entry and exit system, multidisciplinary/interdisciplinary courses, Courses having relevance to the local, national and global needs, courses relevant to cross-cutting issues, skill development, outcome based education earning extra credit (s), inclusion of summer internship etc. have been incorporated in the curriculum.
4.	Updation/Modifications in the offered experiments of the courses for the purpose	Updation/Modifications in the offered experiments of the courses Mechanics

	of exploration and experimental learning and as per modifications in course contents.	Lab(PBHP-151), Waves and Optics Lab (PBHP 252), Computer Concepts & Programming Lab (PBHP-152(1)), Introduction to object oriented programming using python Lab (PBHP -253(1)) have been carried out for the mentioned purpose.
5.	Introduction of a basic course of atomic and molecular physics to understand the properties of matter and computational physics to undertake various problems in physical and mathematical sciences using programming, numerical methods and simulations.	Course of atomic and atomic and molecular physics and computational physics have been incorporated for the purpose as mentioned.
6.	Incorporation of more skill enhancement courses as per recent industrial demand.	Skill enhancement courses viz. Community Project (PBHP-153), Artificial Intelligence (TBHP- 305D), Total Quality Management (TBHP- 305E), Fundamentals of Big Data Analysis (TBHP-405D), Machine Learning (TBHP-405E), Summer Internship (PBHP-554) have been incorporated.
7.	Incorporation/reconsideration of Value Added Course.	Value added non credit course entitled " <b>Numerical Methods and Programming</b> " (VAC-P8) has been incorporated for the session 2022-23.
8.	No need of modification/updation in the contents of other ongoing courses.	The course contents of other courses except those mentioned above were purposed without any further modification/updation.

  
Dr. Ajay Singh

Dean, SALS

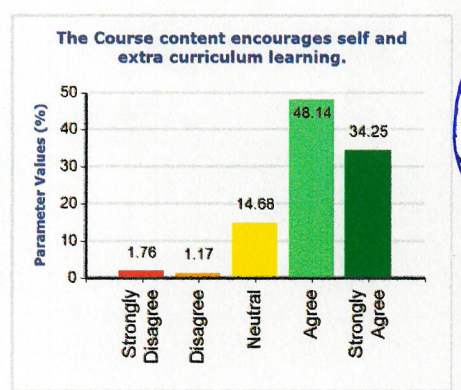
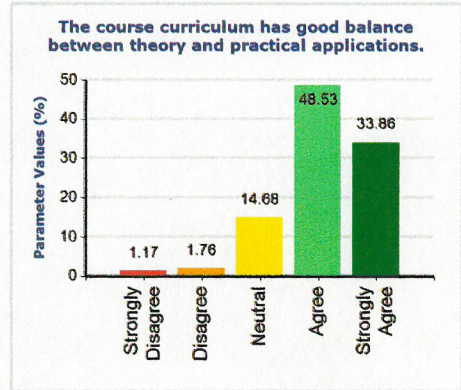
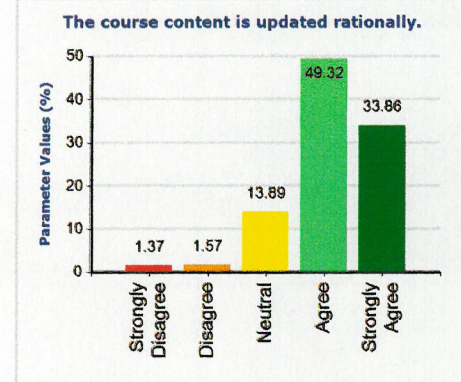
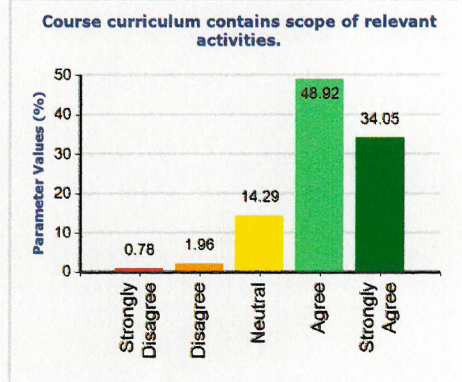
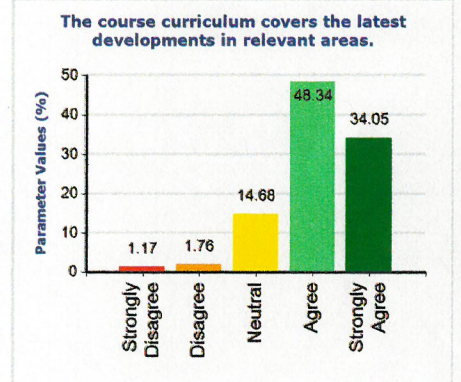
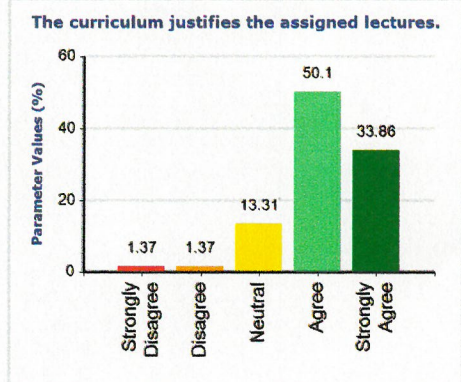
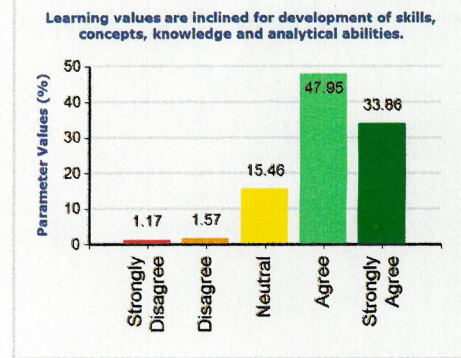
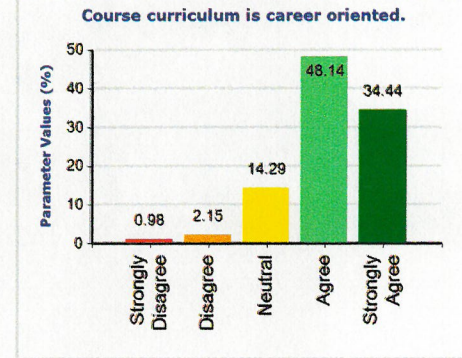
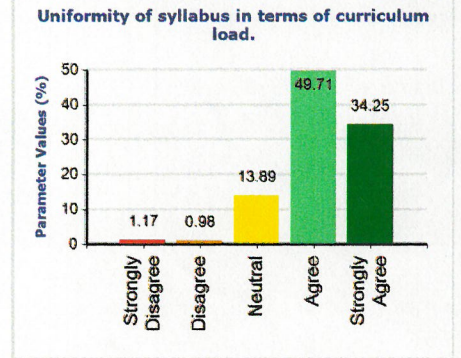
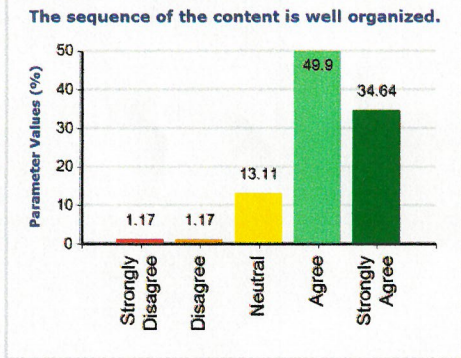
Dean & Principal  
Applied and Life Sciences  
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- 1.PA to Vice-Chancellor: for his kind information please,
- 2.Director IQAC

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

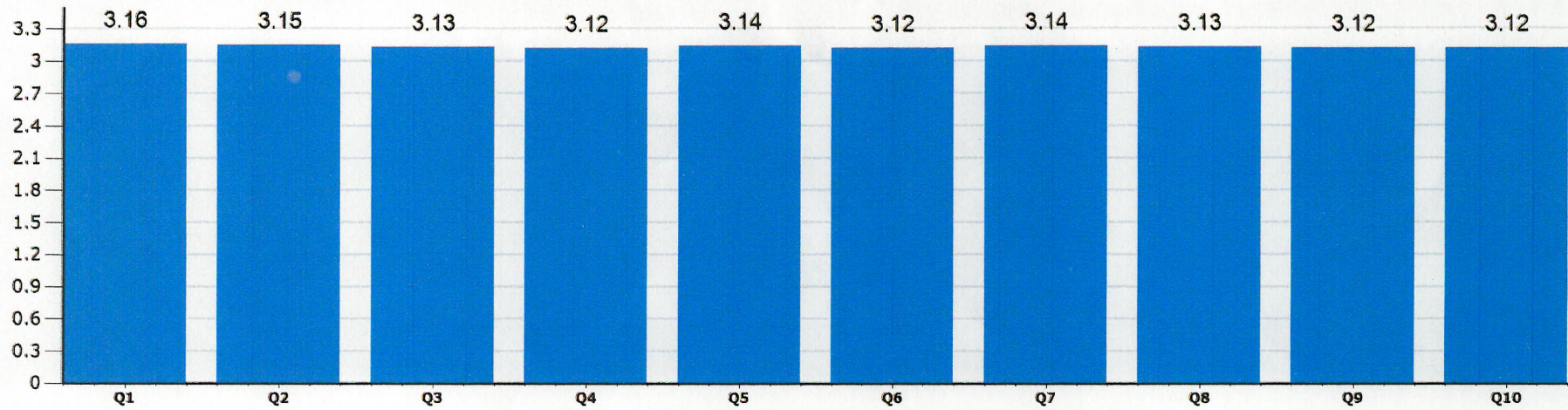
**Programme :** B.Sc. (Hons.) PHYSICS



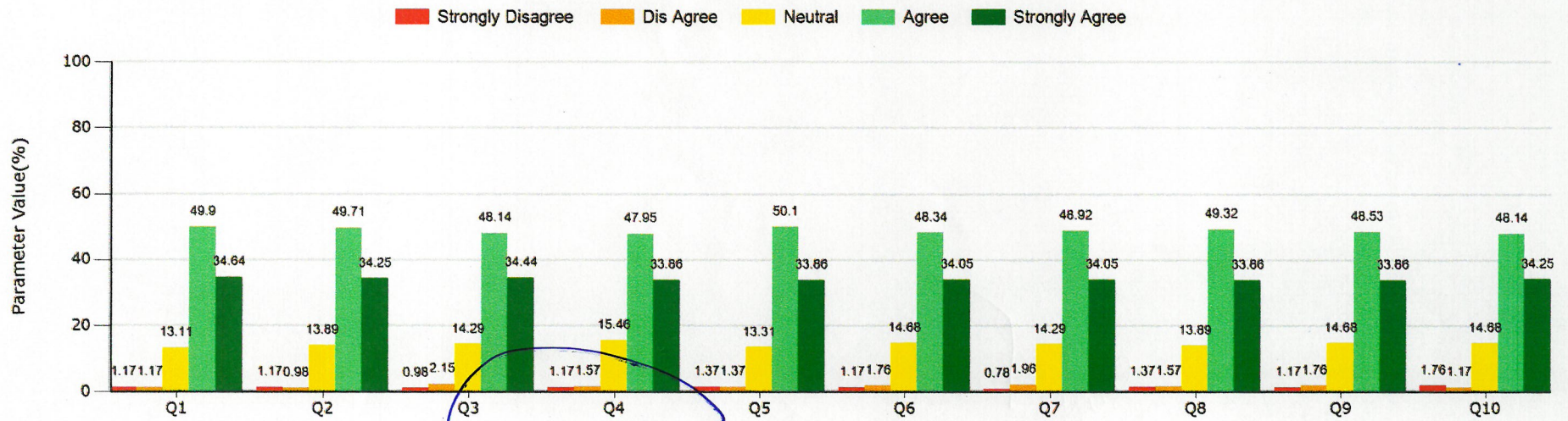
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Head  
Department of Physics  
Applied and Life Sciences  
Uttaranchal University, Dehradun(U.K.)

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### Average Rating



### Summary Chart



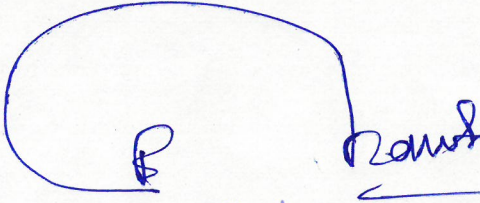
*R. K. Rawal*  
 Head  
 Department of Physics  
 Applied and Life Sciences  
 ...hal University, Dehradun(U.K)

*Anita*  
 Head  
 Applied and Life Sciences  
 ...hal University, Dehradun(U.K)

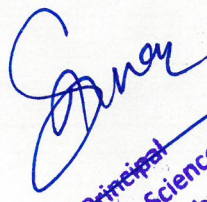
Annexure-1

**Analysis of Student Feedback on Curriculum (Academic Year: 2021-22)  
B.Sc. (Hons.) Physics**

Feedback on the ongoing curriculum was received by the department from the students on the declared parameters like encouragement for co-curricular activities; course contents and a faculty's in depth knowledge of the subject etc. It was found that more than 90% students are satisfied with the sequence and uniformity of the course along with the justification of the curriculum with assigned lectures. This shows no need of modification/updation in most of the ongoing course curriculum except in few of the offered experiments of the course as suggested by students. More than 85% students have agreed with the good balancing of the course curriculum between theory & practical applications. However, students requested to reconsider and incorporate the valueadded course which will enhance their problem solving ability using computational methods in scientific and industrial areas.



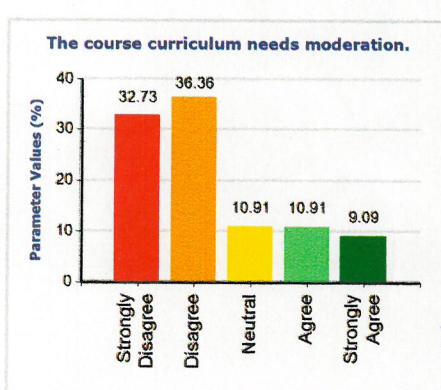
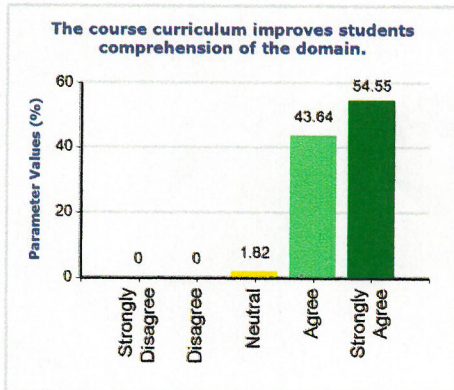
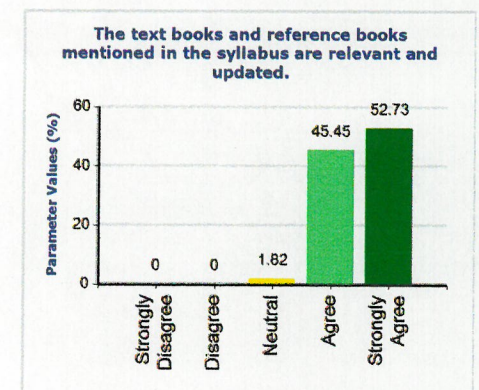
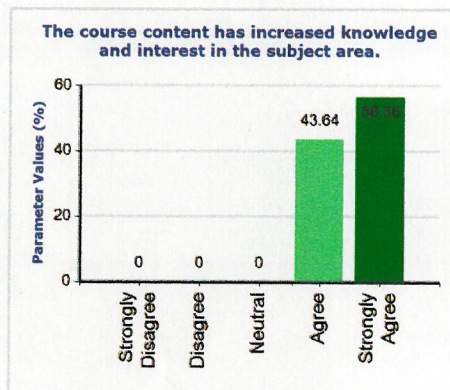
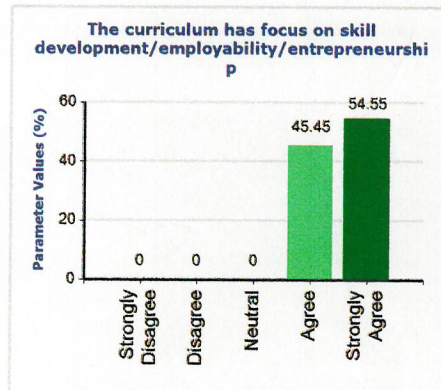
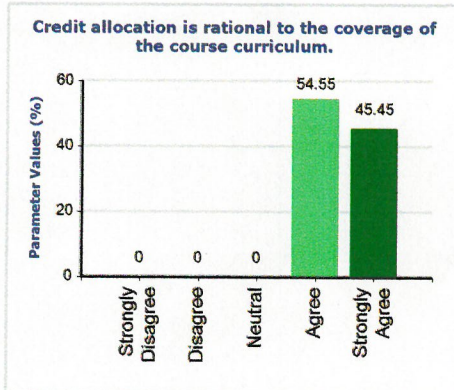
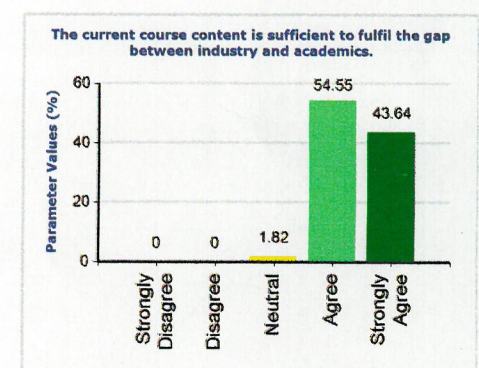
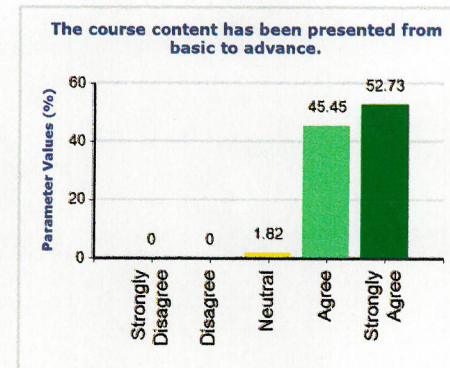
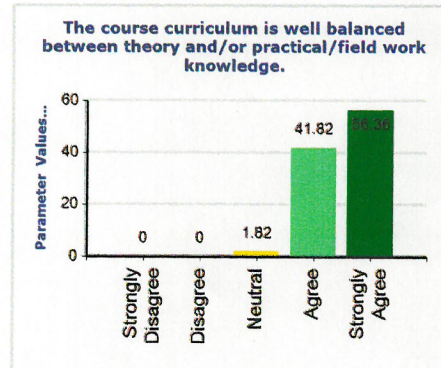
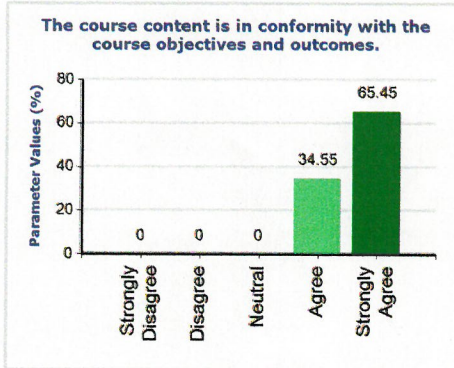
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**ANALYSIS OF FACULTY FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)**

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

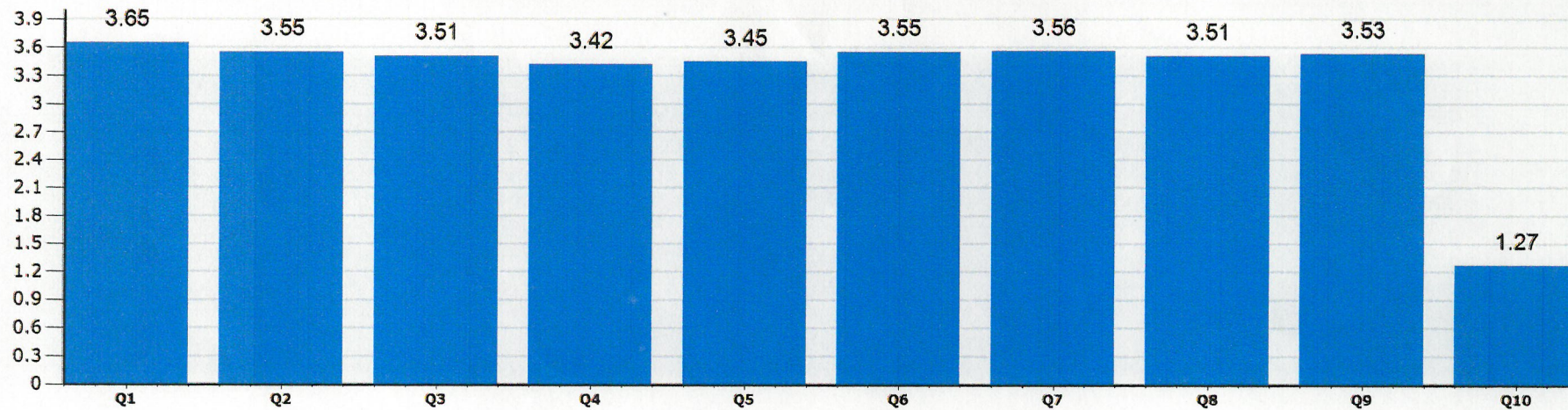


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Applied and Life Sciences  
Uttaranchal University, Dehradun(U.K.)

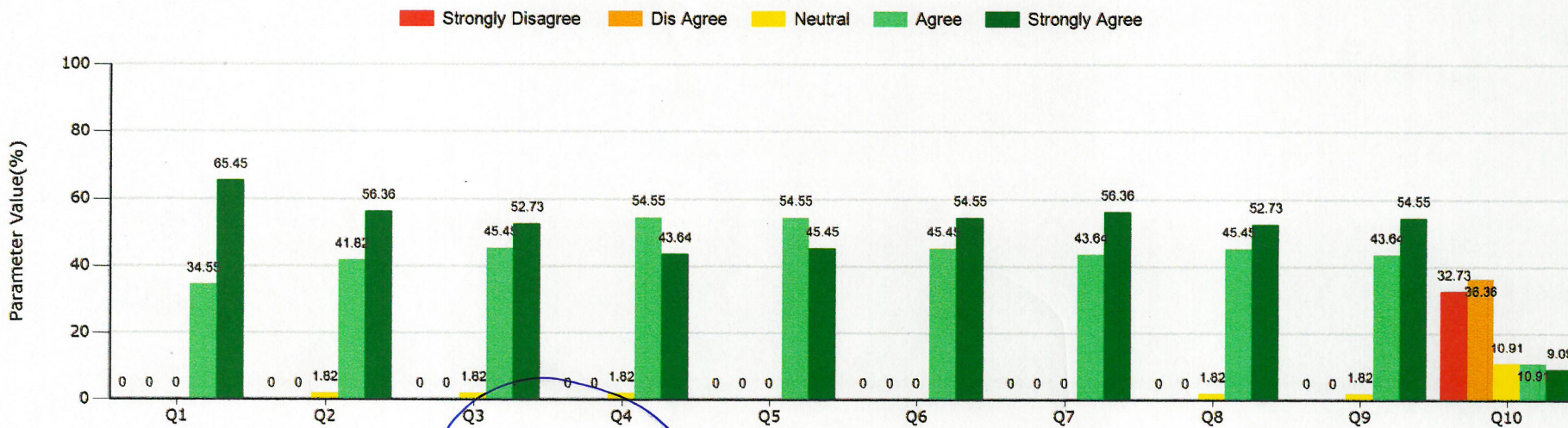
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### Average Rating



### Summary Chart



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# UTTARANCHAL UNIVERSITY

(Established vide Uttaranchal University Act, 2012, Uttarakhand Act No. 11 of 2013)

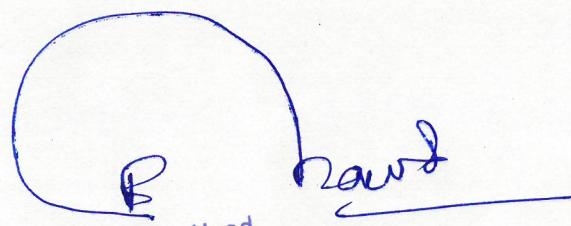
Premnagar-248007, Dehradun, Uttarakhand, INDIA

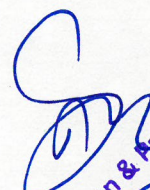
(School of Applied & Life Sciences)



## Analysis of Faculty Feedback on Curriculum (Academic Year: 2021-22) B.Sc. (Hons.) Physics

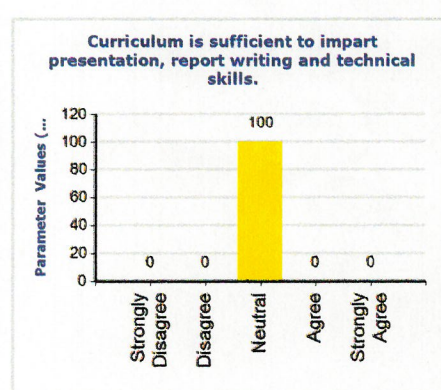
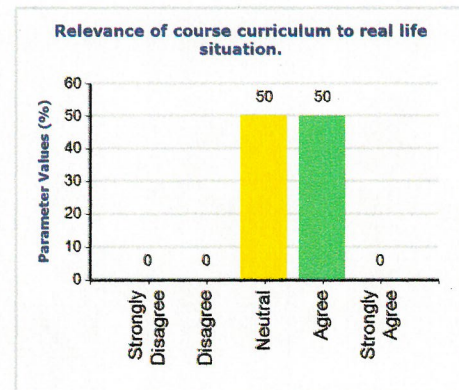
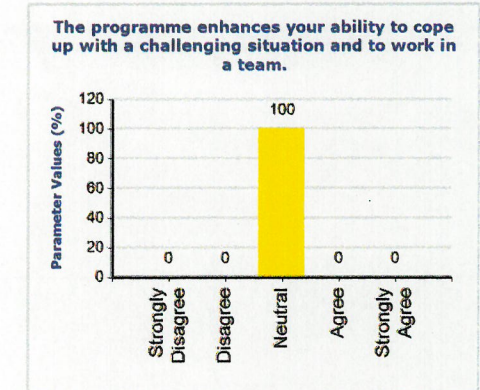
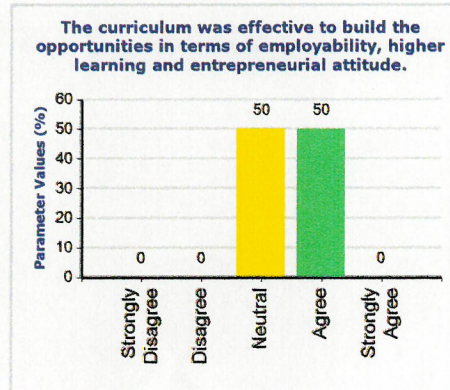
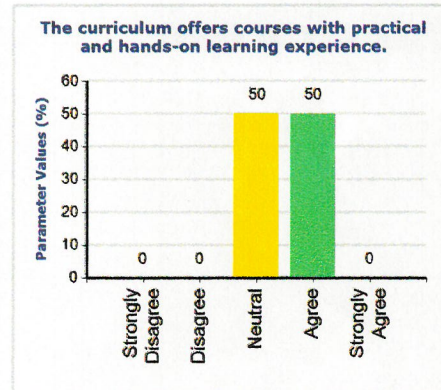
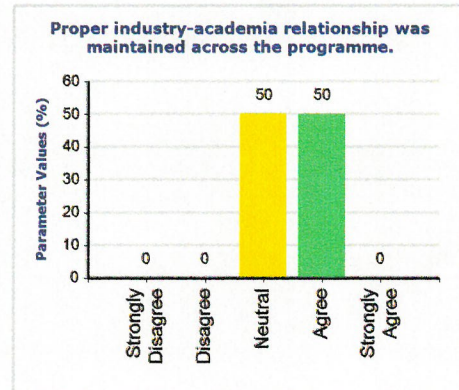
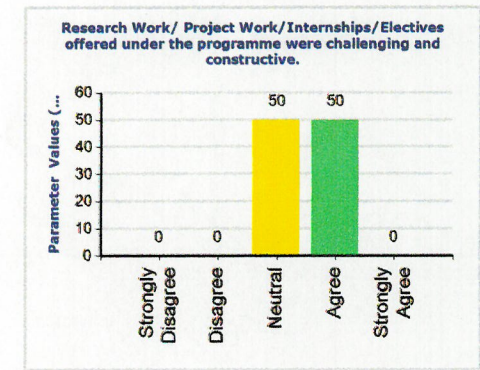
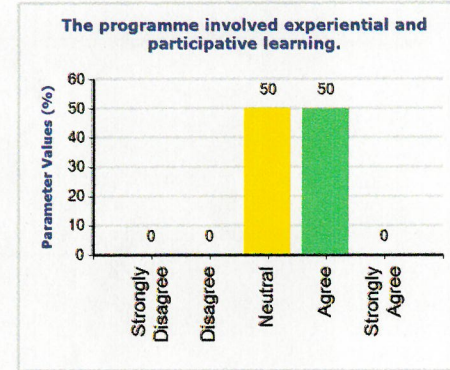
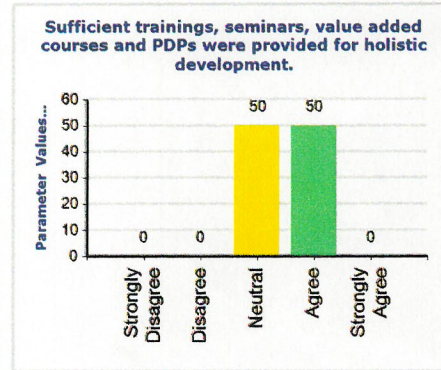
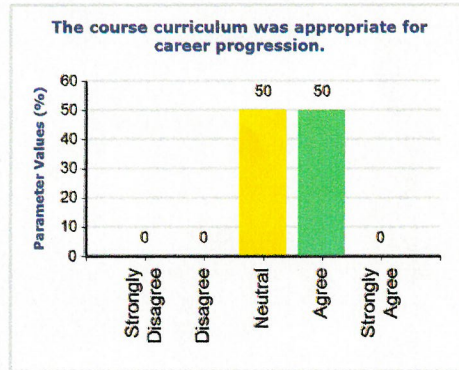
Department of Physics has collected feedback from the faculties on the declared parameters. On the basis of which it was found that most of the faculties (more than 90%) agree on many points such as the course content is in conformity with the course objectives and outcomes, the course curriculum is well balanced between theory and practical and the text and reference books mentioned in the syllabus are relevant etc. However, few faculties suggested to modify/update some of the courses, which has been incorporated.

  
Head  
Department of Physics  
Applied and Life Sciences  
Uttaranchal University, Dehradun(U.K)

  
Dean & Principal  
Applied and Life Sciences  
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**ANALYSIS OF ALUMNI FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)**

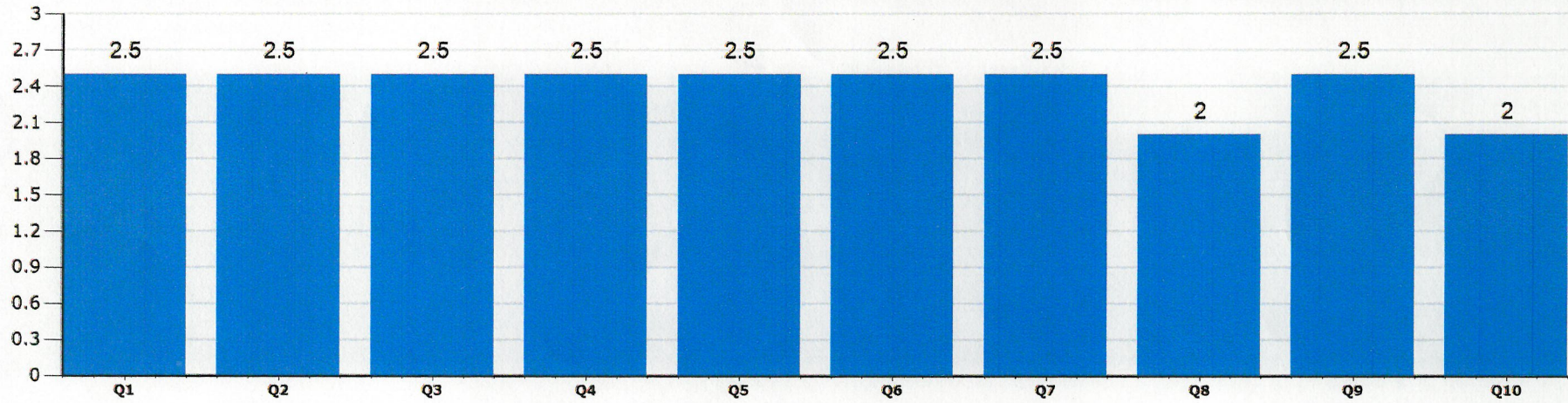
**Programme :** B.Sc. (Hons.) PHYSICS



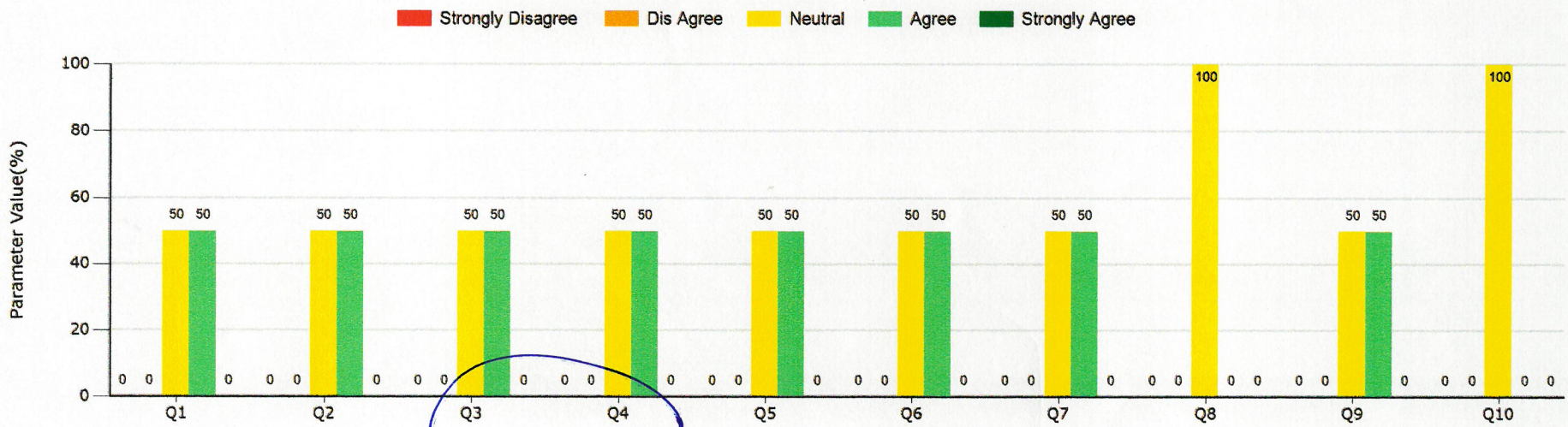
*[Signature]*  
 Head  
 Department of Physics  
 Applied and Life Sciences  
 Uttarakhand University, Dehradun(U.K.)

*[Signature]*  
 Dean & Principal  
 Applied and Life Sciences  
 Uttarakhand University, Dehradun(U.K.)

### Average Rating



### Summary Chart




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 University, Dehradun(U.K.)

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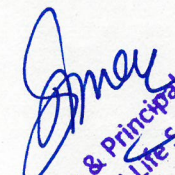
Annexure-1

**Analysis of Alumni Feedback on Curriculum (Academic Year: 2021-22)**  
**B.Sc. (Hons.) Physics**

Department of Physics has received feedback from the alumni on the declared parameters. On this basis it was found that most of the alumni are satisfied on several points: the course curriculum was appropriate for career progression, sufficiency of the curriculum to impart presentation, report writing and technical skills and the quality of research work/project work/internship or electives offered etc. However, alumni also suggested for the introduction of a basic course of atomic and molecular physics to understand the properties of matter and computational physics to undertake various problems in physical and mathematical sciences using programming, numerical methods and simulations which has been incorporated.



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Department of Physics  
Applied and Life Sciences  
Uttaranchal University, Dehradun(U.K)

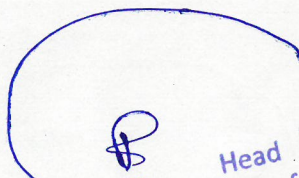


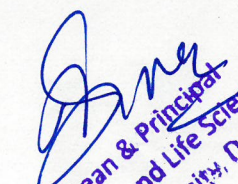
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Annexure-1

**Employer Feedback Analysis (Academic Year: 2021-22)**  
**B.Sc. (Hons.) Physics**

Department of Physics has collected feedback from the employer through Corporate **Resource Centre (CRC) of the University** on the declared parameters. The feedback analysis shows that the employers are agree with the curriculum of program which provides technical knowledge as per the industry needs, contains the courses which fulfils the required skills and leadership qualities, covers the aspects of employability, and also well incorporated with Computer and soft skills etc. Overall rating emphasis, that there is no need of modification/updation in the ongoing course curriculum.

  
Head *Rawal*  
Department of Physics  
Applied and Life Sciences  
Uttaranchal University, Dehradun(U.K)

  
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