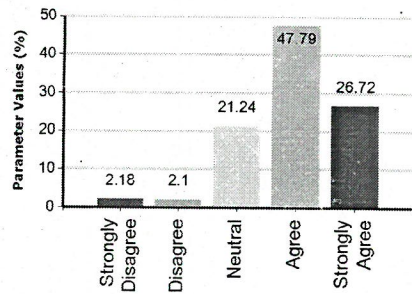


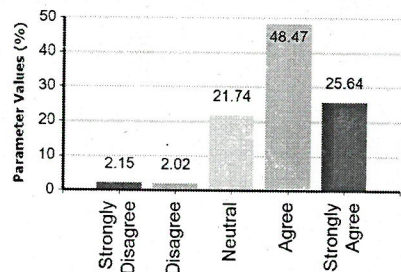
ANALYSIS OF STUDENT FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)

Programme : B.Tech. - COMPUTER SCIENCE AND ENGINEERING

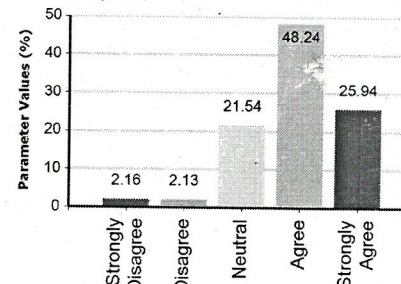
The sequence of the content is well organized.



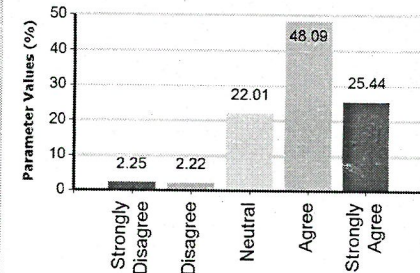
Uniformity of syllabus in terms of curriculum load.



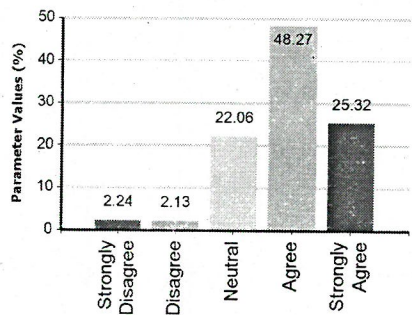
Course curriculum is career oriented.



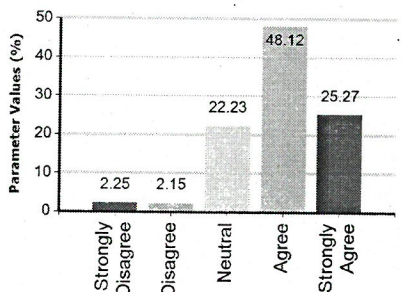
Learning values are inclined for development of skills, concepts, knowledge and analytical abilities.



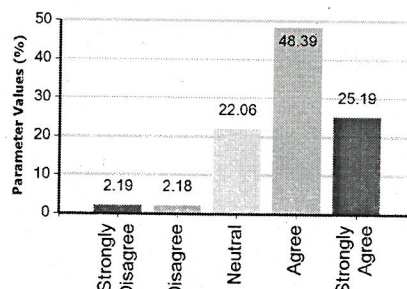
The curriculum justifies the assigned lectures.



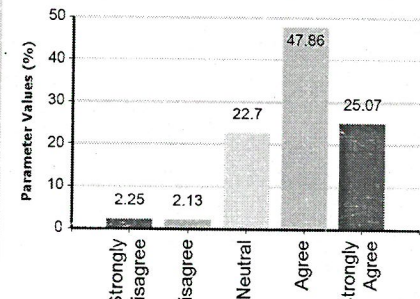
The course curriculum covers the latest developments in relevant areas.



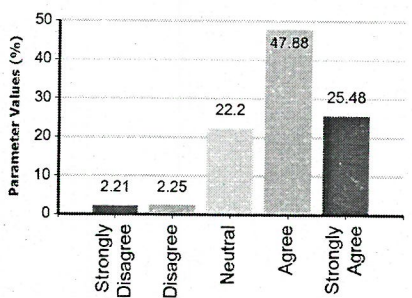
Course curriculum contains scope of relevant activities.



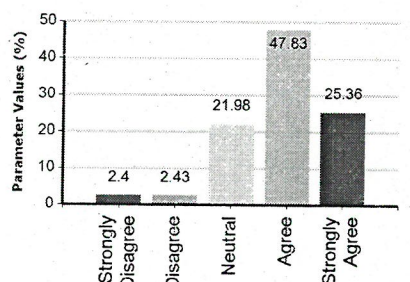
The course content is updated rationally.



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

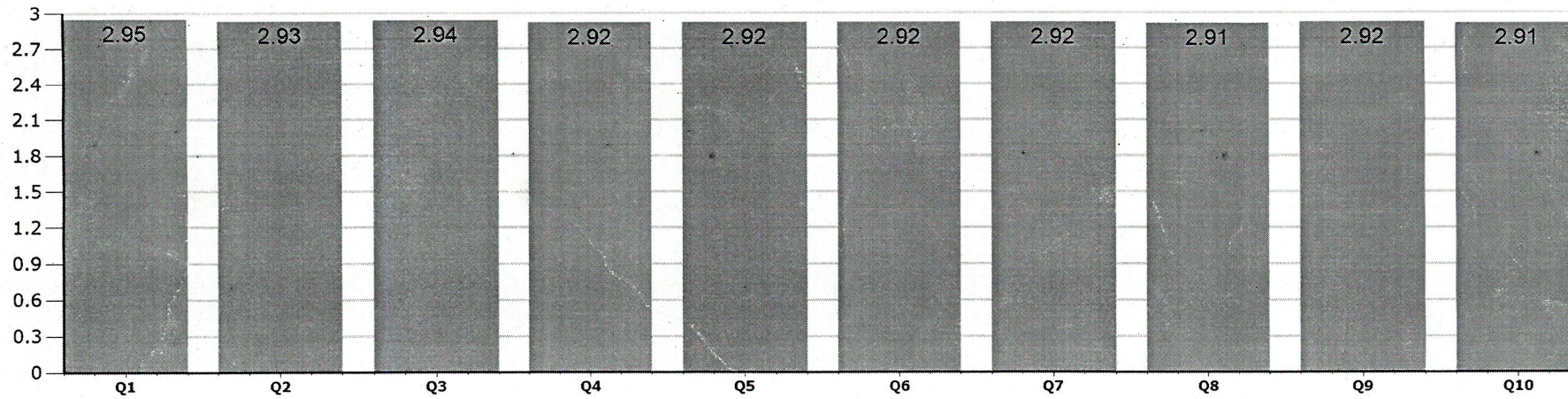


The Course content encourages self and extra curriculum learning.

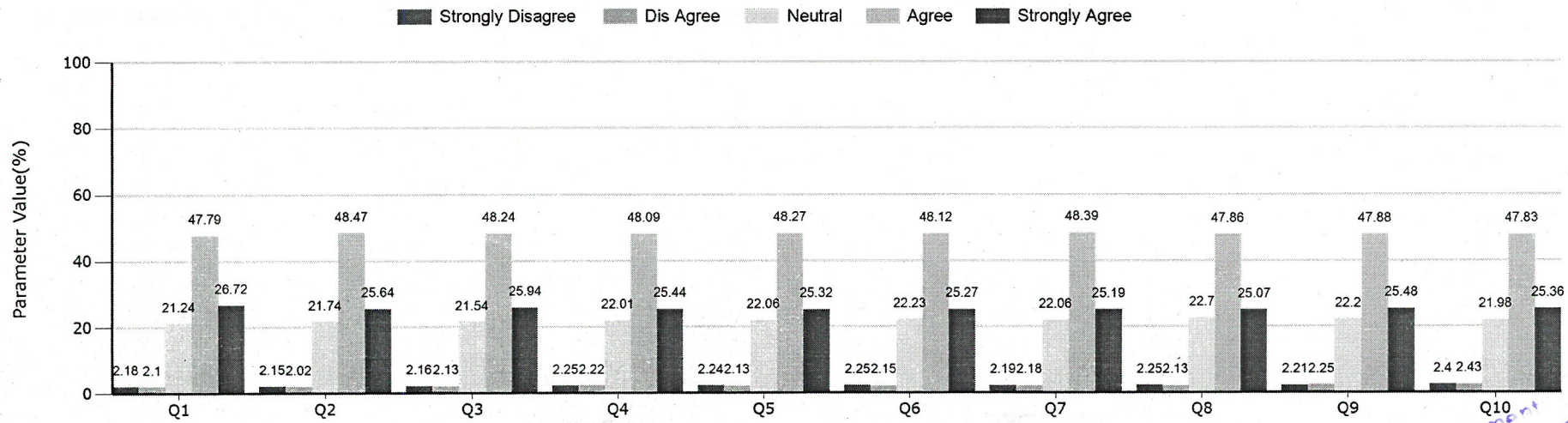


HEM DADAJI
UNIVERSITY
DEHRADUN
INDIA-248007

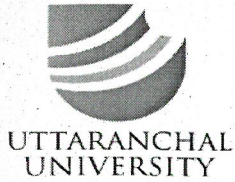
Average Rating



Summary Chart

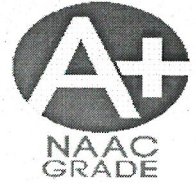


Head Of Department
 Computer Science Department
 Uttarakhand University
 Dehradun (K.J)-248007



UTTARANCHALUNIVERSITY
(Established vide Uttaranchal University Act,
2012)(UttarakhandAct No.11of2013)

ArcadiaGrant,P.O.Chandanwari,Premnagar,Dehradun,Uttarakhand



UTTARANCHAL INSTITUTE OF TECHNOLOGY
Feedback Analysis Report
Academic Year: 2021-22
B. Tech Computer Science &Engineering

Date: 01/06/2022

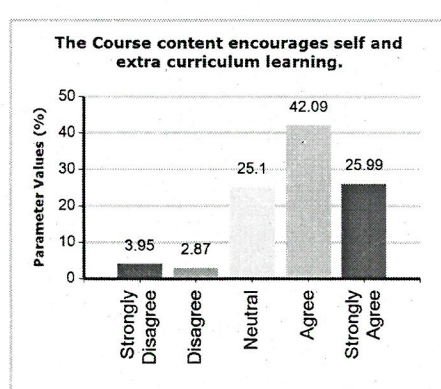
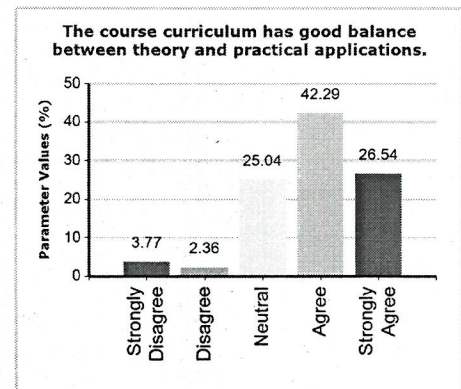
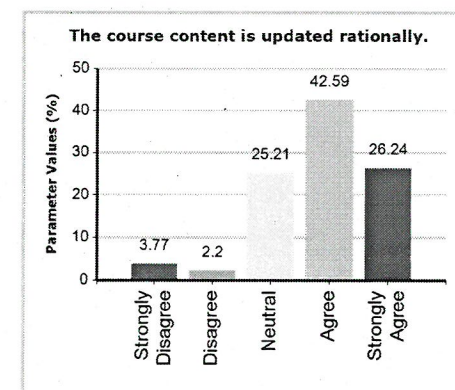
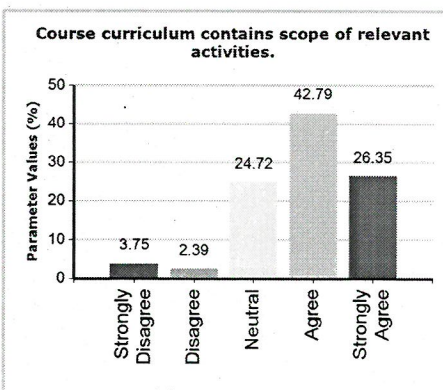
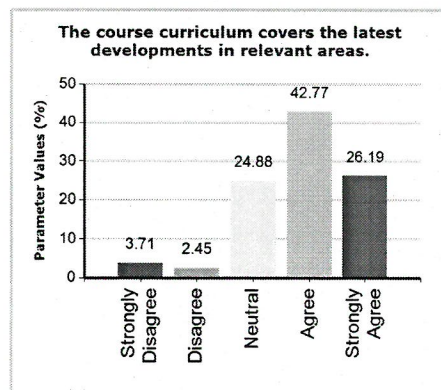
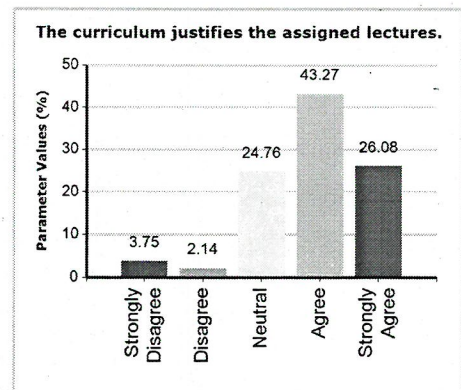
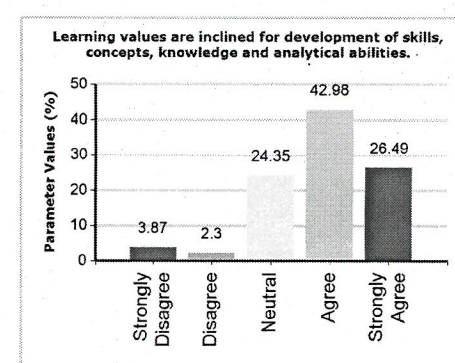
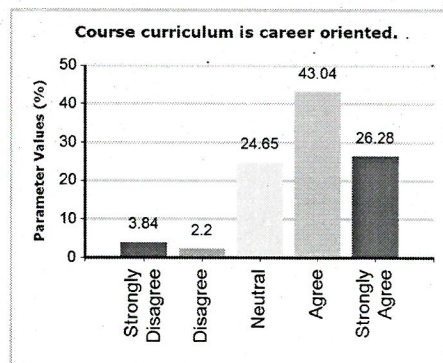
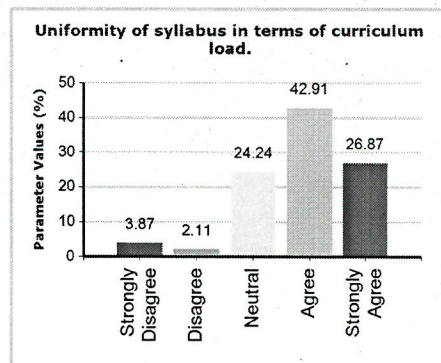
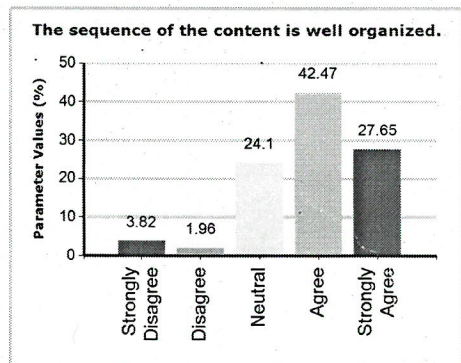
As per the feedback obtained from students in the feedback process 48.09% students are agreed with that the curriculum of the program helps in learning values are inclined for development of skills, concepts, knowledge, and analytical abilities. Whereas 47.88% students are agreed that the course curriculum has good balance between theory and practical applications.

A handwritten signature in black ink, appearing to be 'S. S. S.' or similar, written over a purple stamp.

Head Of Department
Comput- ...
Uttarakhand
Dehradun (Uttarakhand)

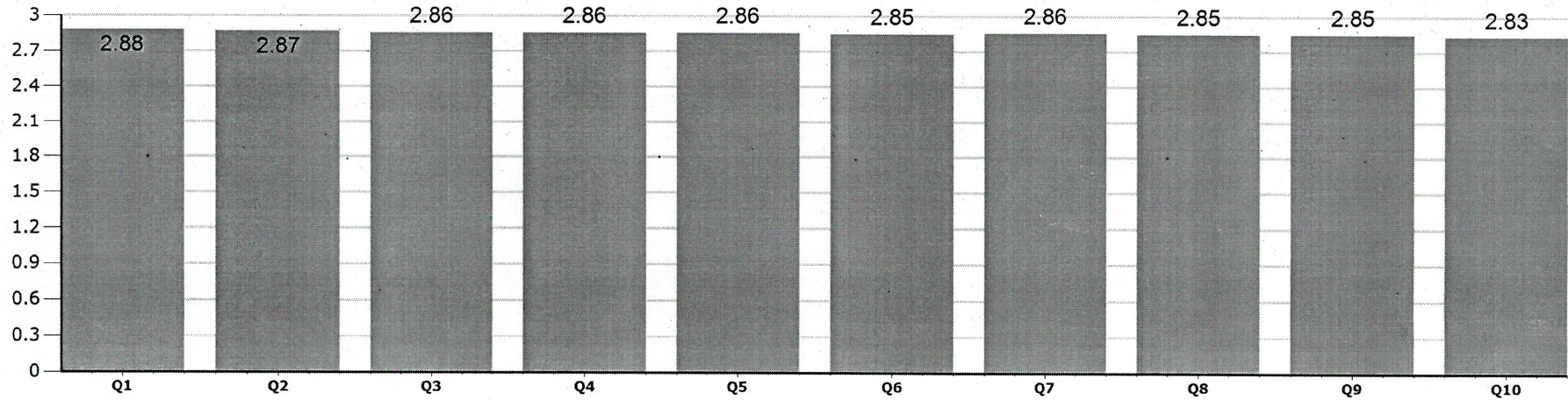
ANALYSIS OF STUDENT FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)

Programme : B.Tech. - COMPUTER SCIENCE AND ENGINEERING

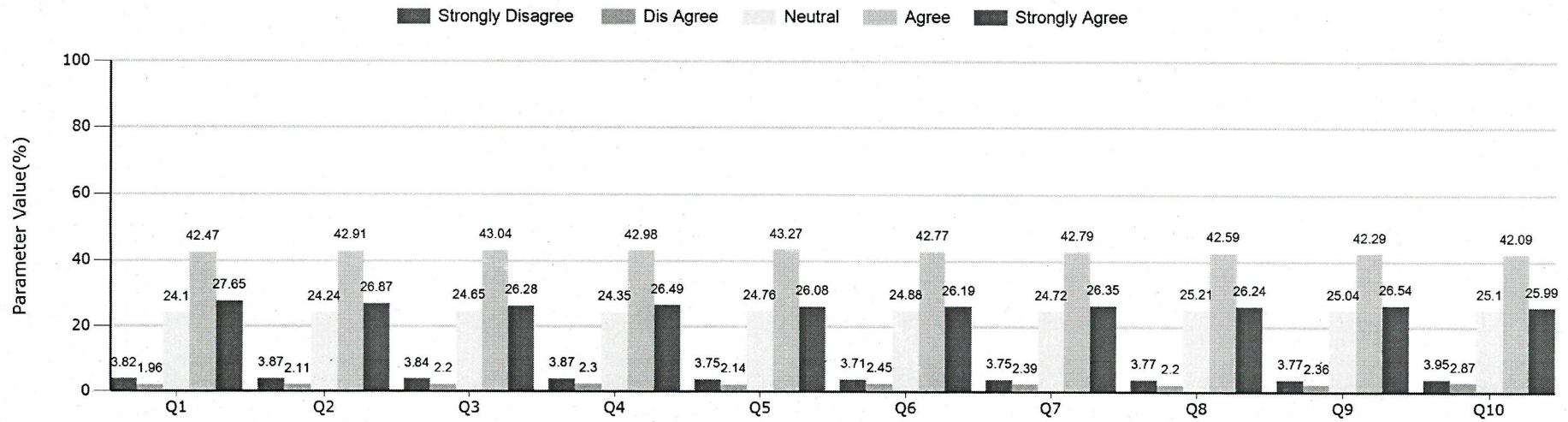


[Signature]
 Head Of Department
 Computer Science Department
 Uttarakhand University
 Dehradun (U.K.)- 248007

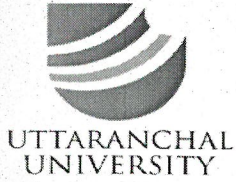
Average Rating



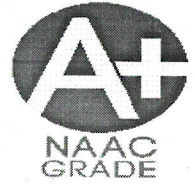
Summary Chart



Head Of Department
 Computer Science Department
 Uttarakhand University
 Dehradun (U.K.) - 248007



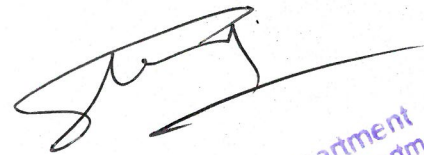
UTTARANCHALUNIVERSITY
(Established vide Uttaranchal University Act,
2012)(Uttarakhand Act No.11of2013)
Arcadia Grant, P.O. Chandanwari, Premnagar, Dehradun, Uttarakhand



UTTARANCHAL INSTITUTE OF TECHNOLOGY
Feedback Analysis Report
Academic Year: 2021-22
B. Tech Computer Science & Engineering

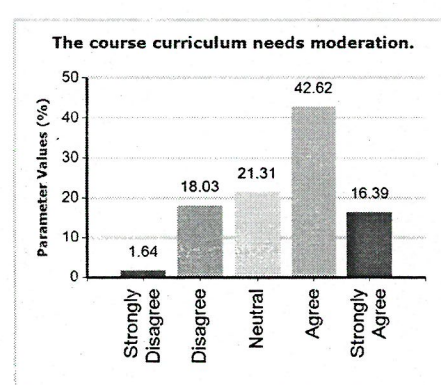
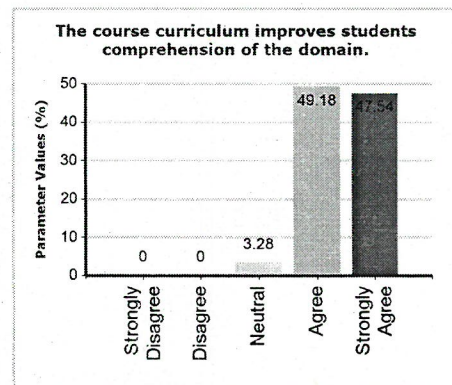
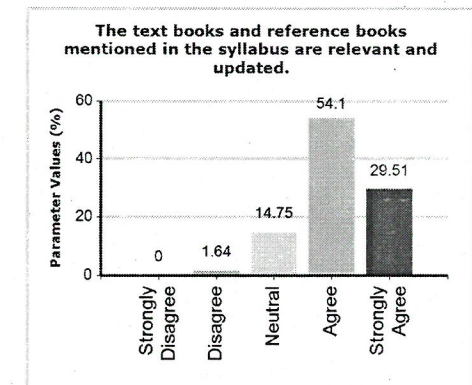
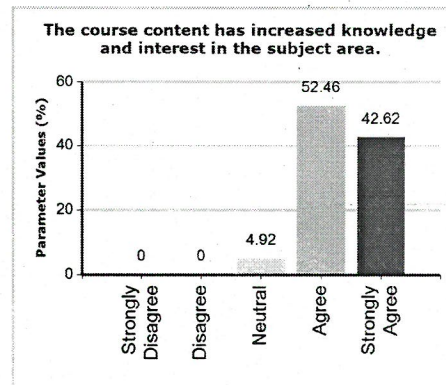
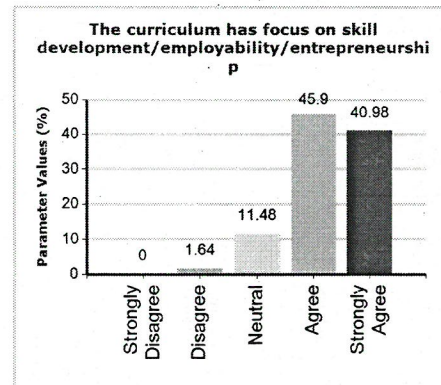
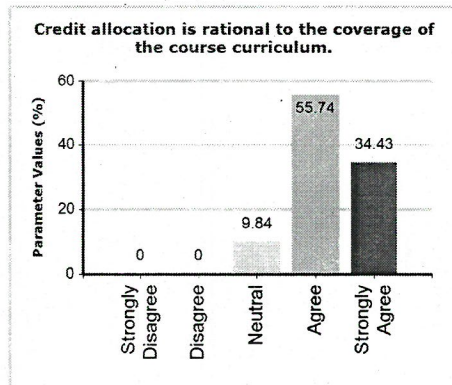
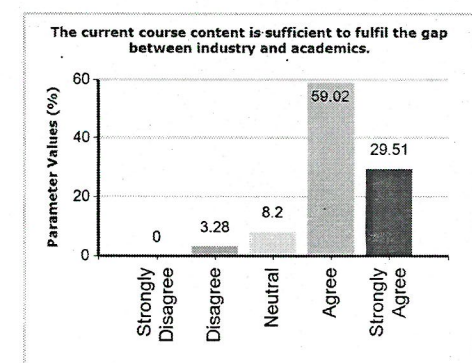
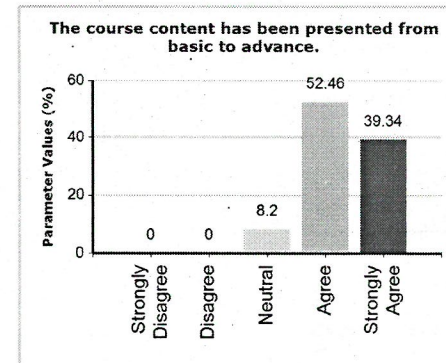
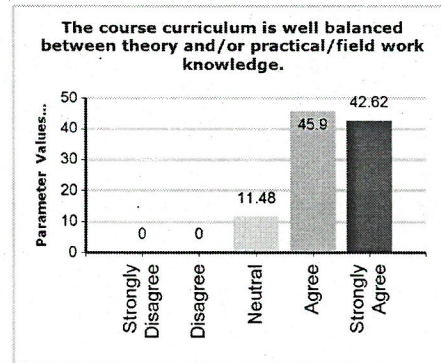
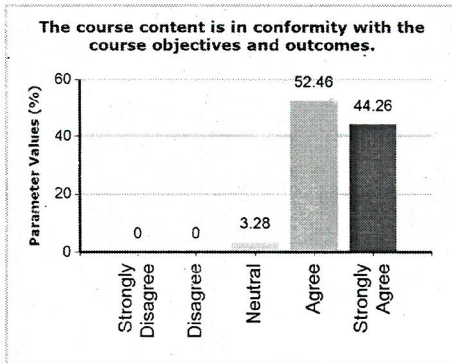
Date: 01/06/2022

As per the feedback obtained from students in the feedback process 48.09% students are agreed with that the curriculum of the program helps in learning values are inclined for development of skills, concepts, knowledge, and analytical abilities. Whereas 47.88% students are agreed that the course curriculum has good balance between theory and practical applications.


Head of Department
Computer Science Department
Uttaranchal University
Dehradun (U.K.)- 248007

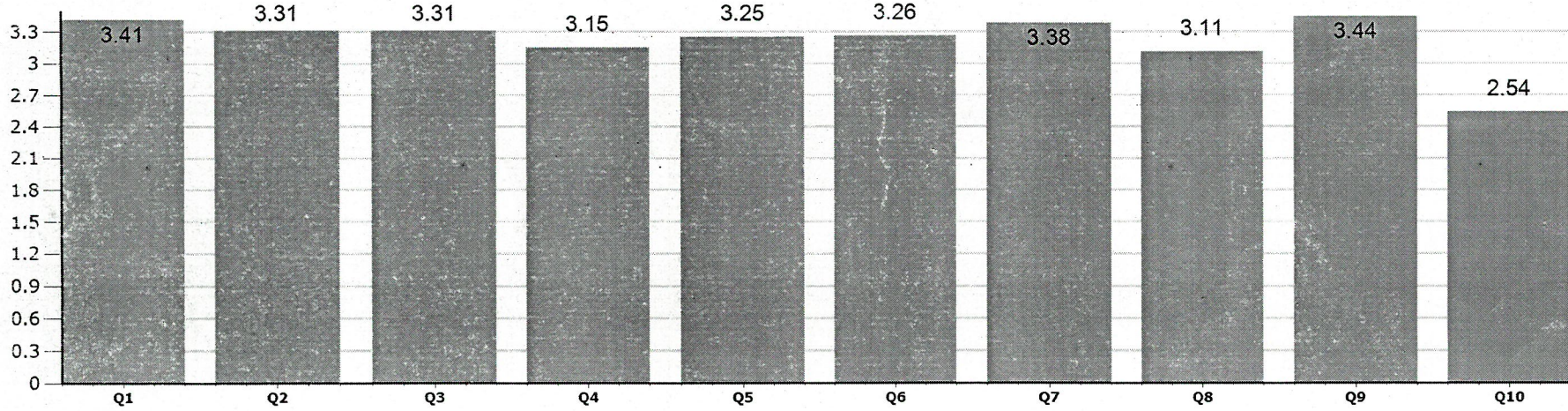
ANALYSIS OF FACULTY FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)

Programme : B.Tech. - COMPUTER SCIENCE AND ENGINEERING

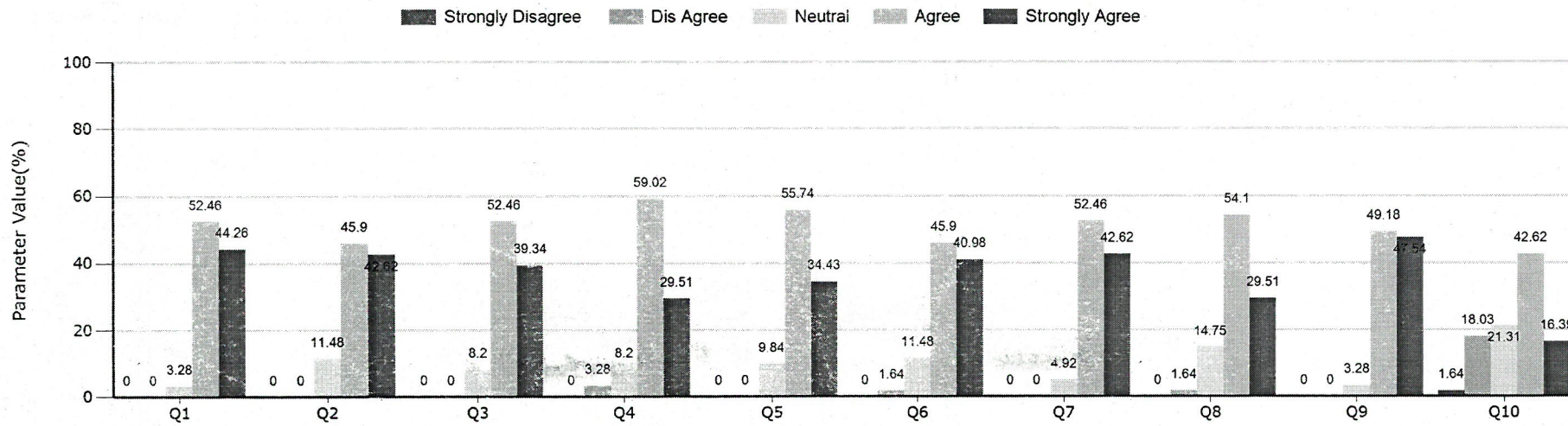


(Signature)
 Head Of Department
 Computer Science Department
 Uttaranchal University,
 Dehradun, U.K. - 248007

Average Rating



Summary Chart

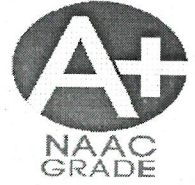


Head Of Department
 Computer Science Department
 Uttarakhand University
 Dehra Dun, India



UTTARANCHAL UNIVERSITY

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



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

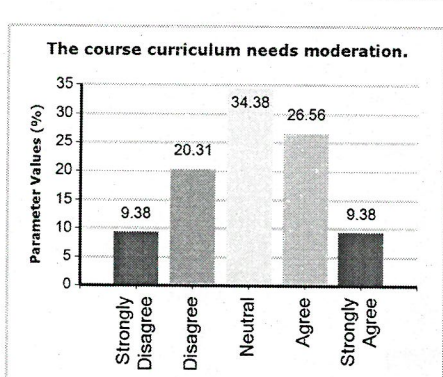
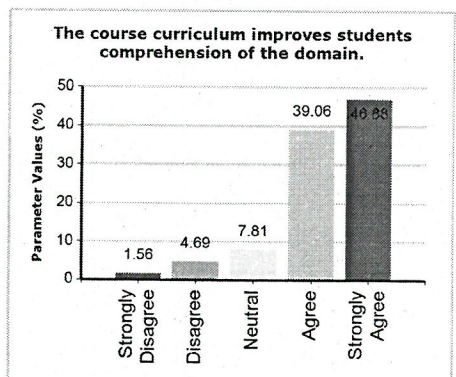
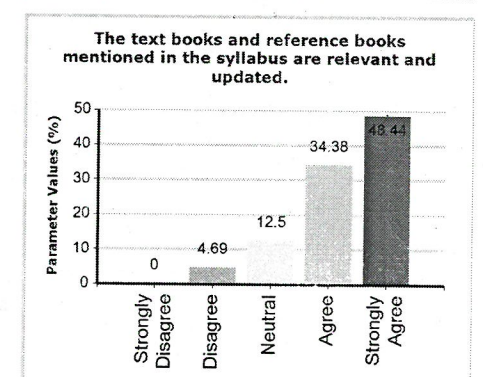
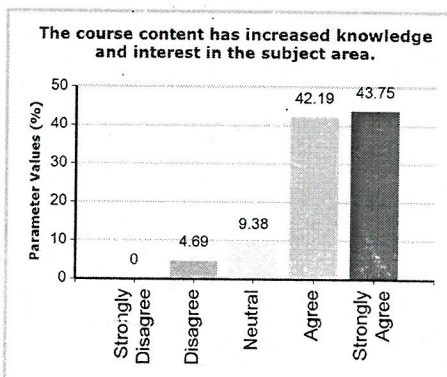
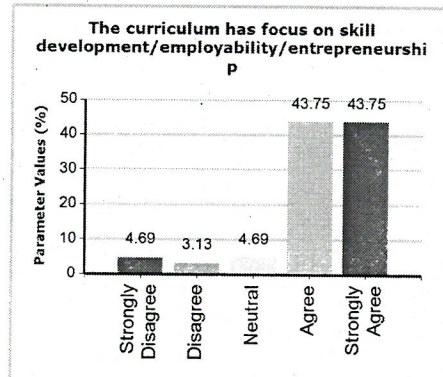
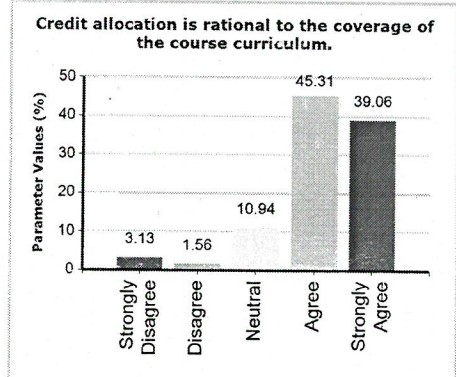
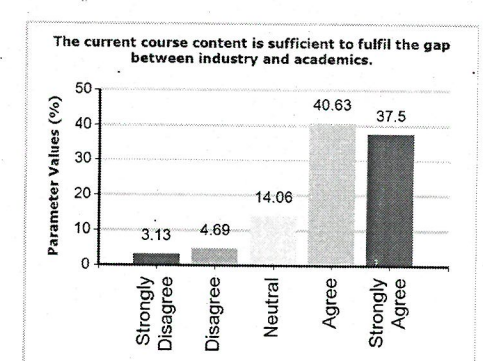
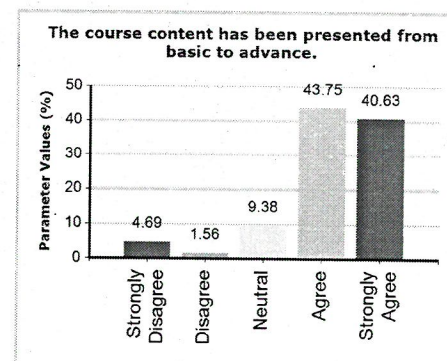
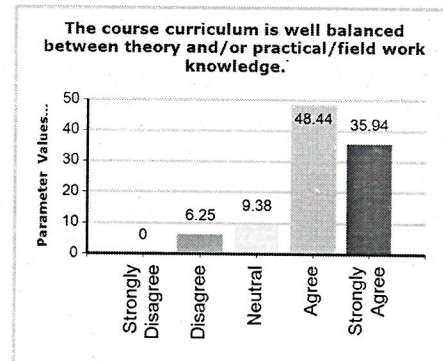
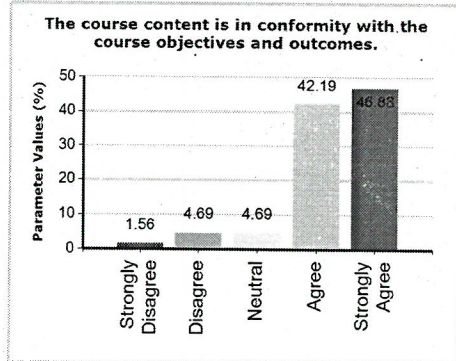
As per the feedback analysis of faculty on curriculum 2021-22 total of 59.02% faculties were agree with the current course content is sufficient to fulfill the gap between industry and academics. Whereas 55.74% faculties were agreeing with the credit allocation is rational to the coverage of course curriculum. On the other hand, only 16.39% of the faculties were strongly agree that the course curriculum needs moderation. With total of 52.46% of faculties were also agreeing on the point that the course content has been presented from basic to advance.

A handwritten signature in black ink, appearing to be 'S. K. Singh', written over a horizontal line.

Head Of Department
Computer Science Department
Uttaranchal University
Dehradun (U.K.)- 248007

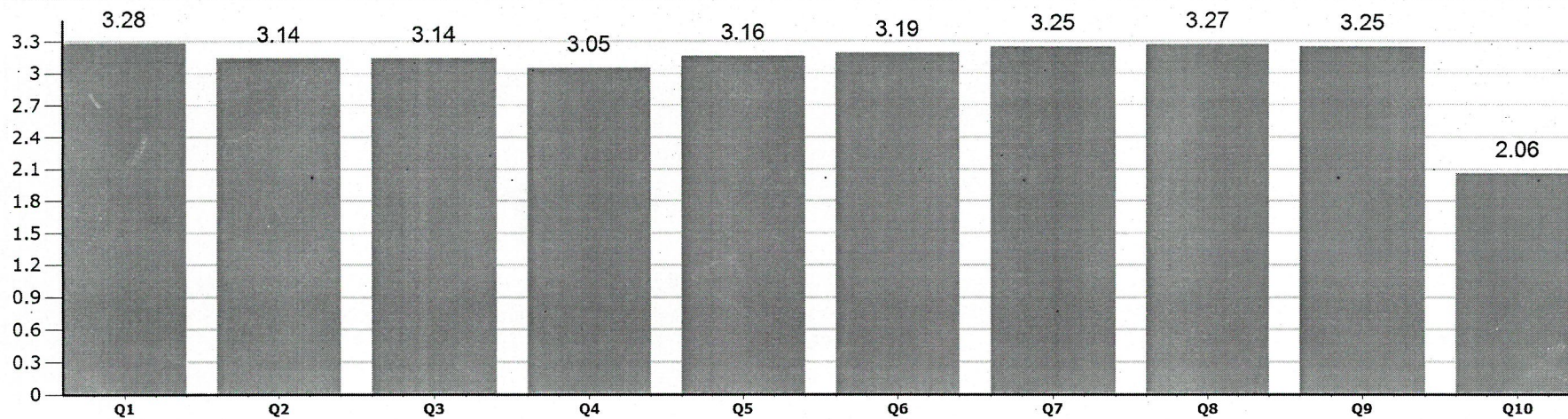
ANALYSIS OF FACULTY FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)

Programme : B.Tech. - COMPUTER SCIENCE AND ENGINEERING

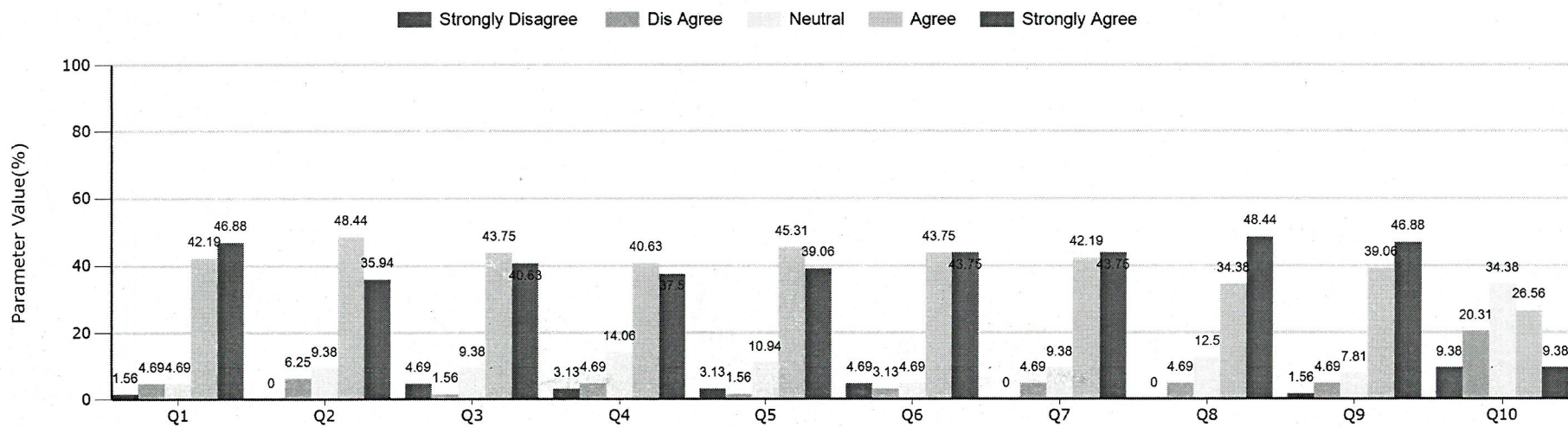




Head Of Department
Computer Science Department
Uttaranchal University
Dehradun (U.K.) - 248007

Average Rating



Summary Chart



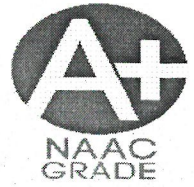


 Head Of Department
 Computer Science Department
 International University
 Amman, Jordan



UTTARANCHAL UNIVERSITY

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



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

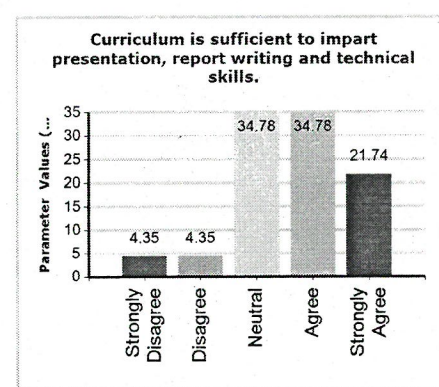
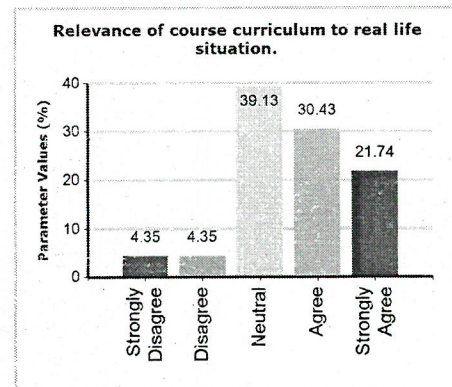
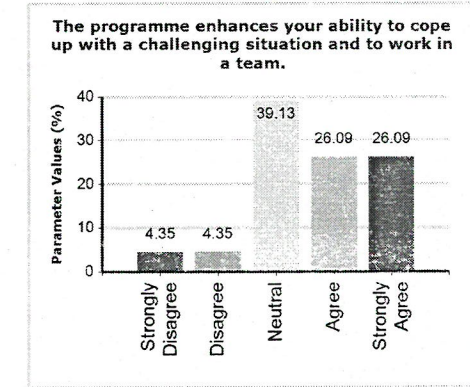
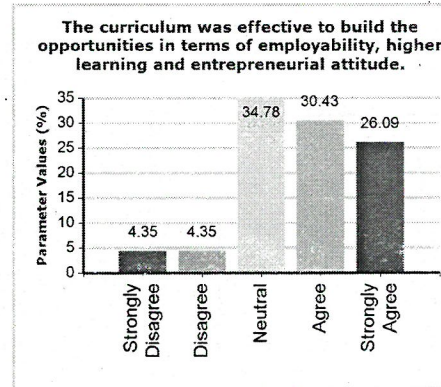
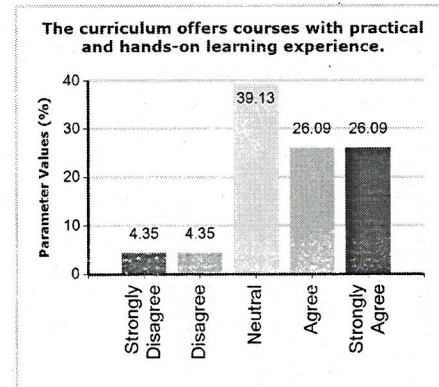
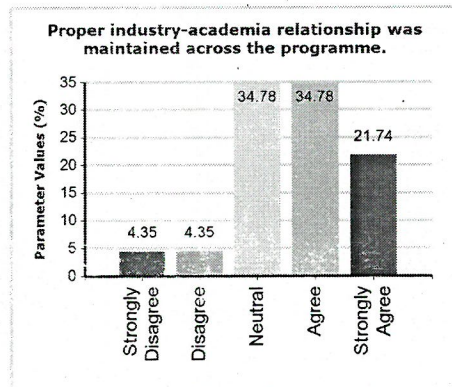
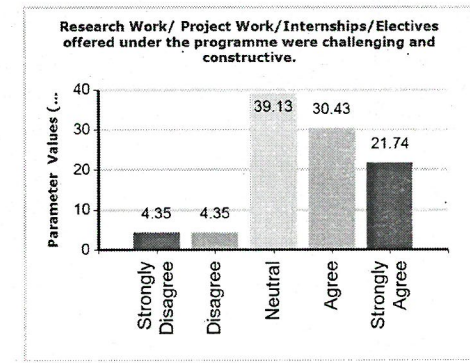
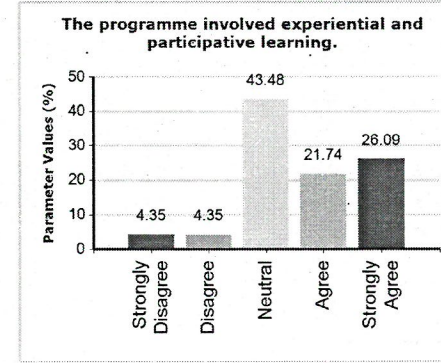
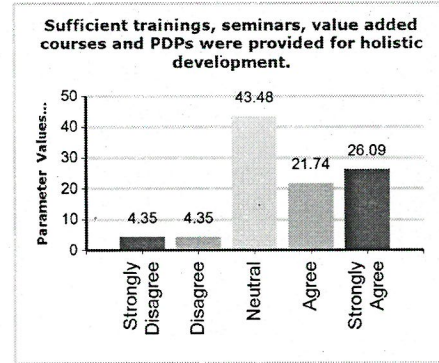
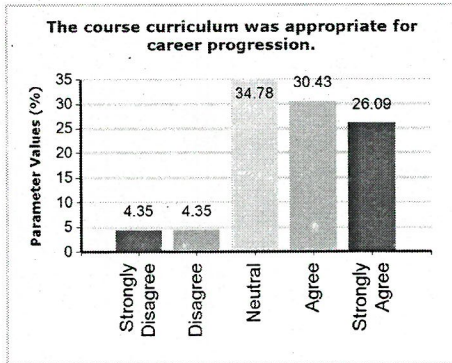
Based on the faculty feedback on curriculum 2021-22 was analyzed and found an on an average 48.44 % faculties are agree on the course curriculum that it is well balanced between theoretical and practical knowledge. Whereas 43.75% were agree that the course content has increased knowledge and interest in the subject area. It was also found that in some of the subject's minor moderation were also required. Total of 43.75% of faculties were strongly agree on the curriculum has focus on skill development, employability and entrepreneurship. Most of the faculties were strongly agree with the text book and reference books mentioned in the syllabus are relevant and updated.

A handwritten signature in black ink, appearing to be "MA dr", enclosed in a rectangular box.

Head Of Department
Computer Science Department

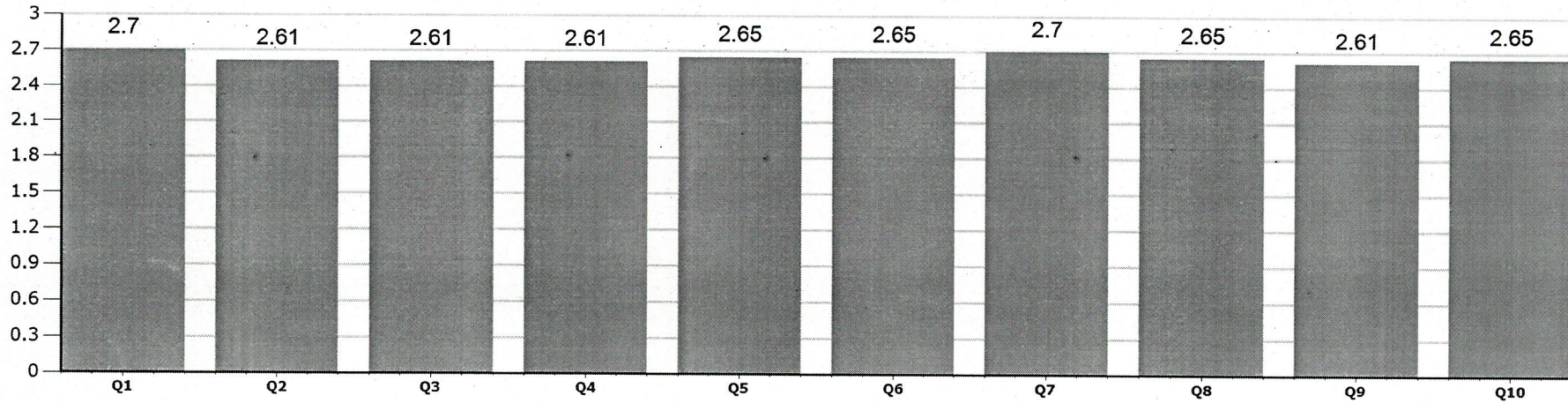
ANALYSIS OF ALUMNI FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)

Programme : B.Tech. - COMPUTER SCIENCE AND ENGINEERING

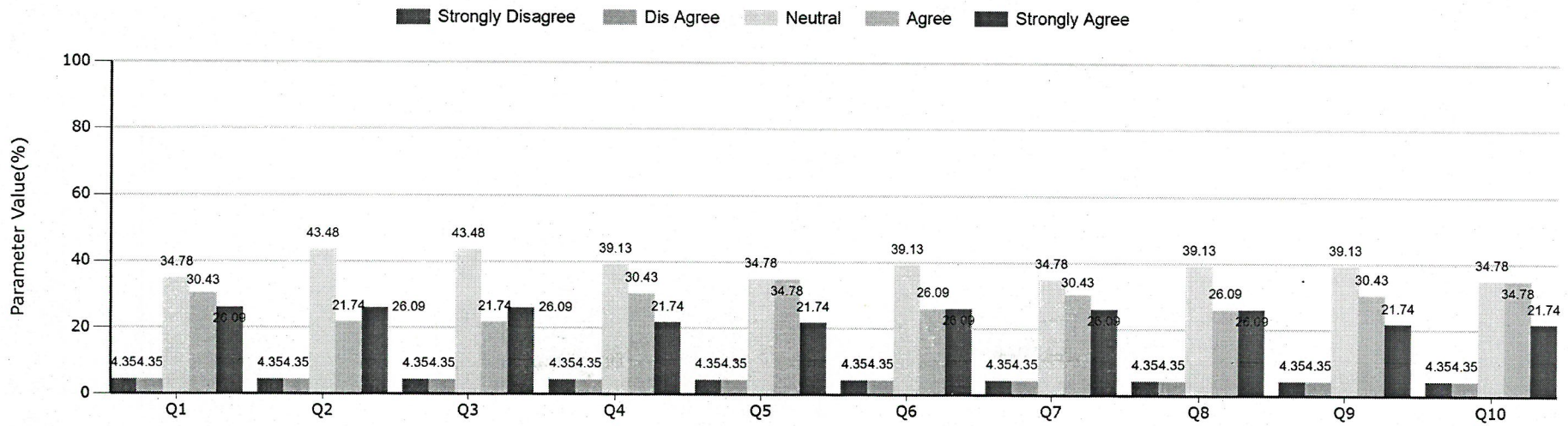


[Signature]
 Head Of Department
 Computer Science Department
 Uttaranchal University
 Dehradun (U.K.) - 248007

Average Rating



Summary Chart



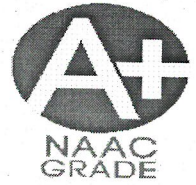
[Handwritten signature]
 Head of Department



UTTARANCHAL
UNIVERSITY

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

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



UTTARANCHAL INSTITUTE OF TECHNOLOGY

Feedback Analysis Report

Academic Year: 2021-22

B. Tech Computer Science & Engineering

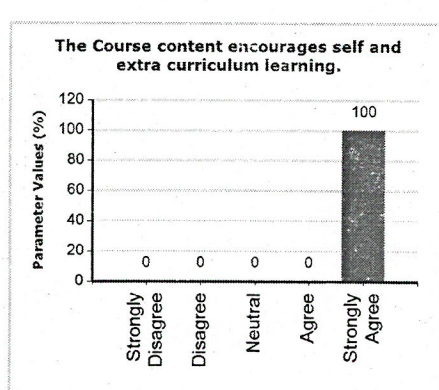
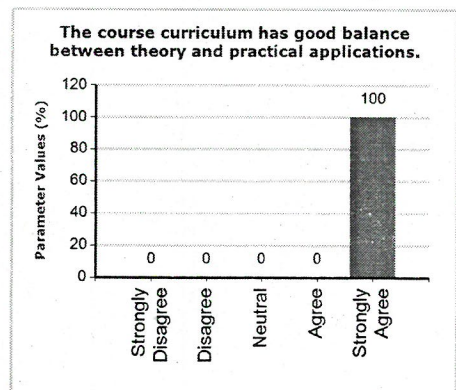
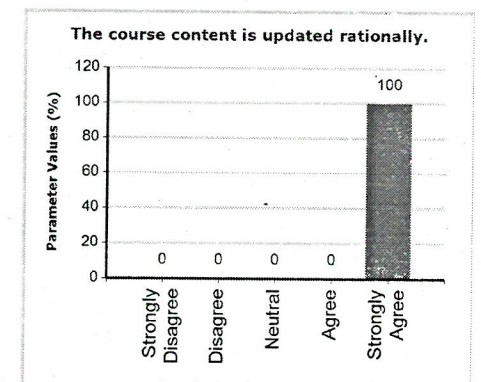
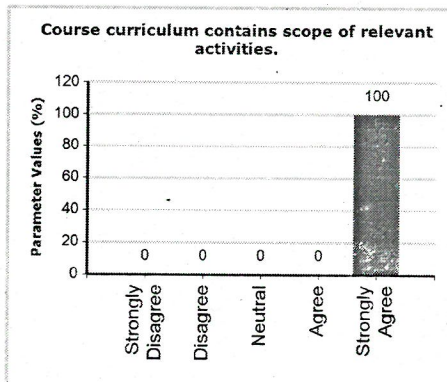
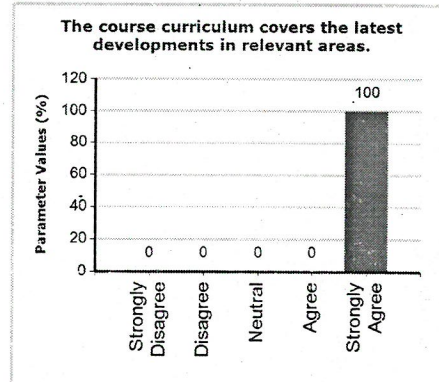
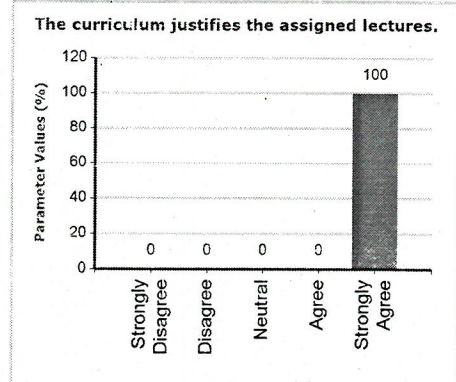
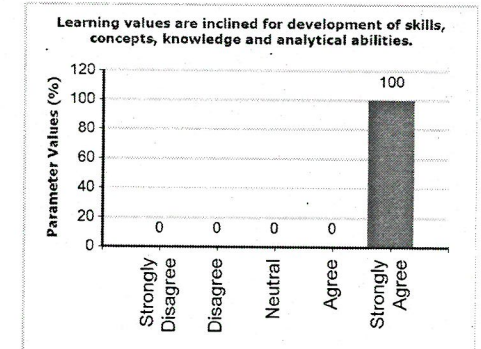
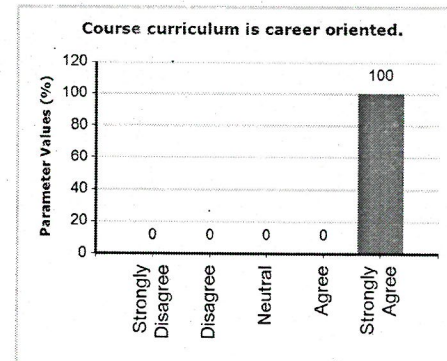
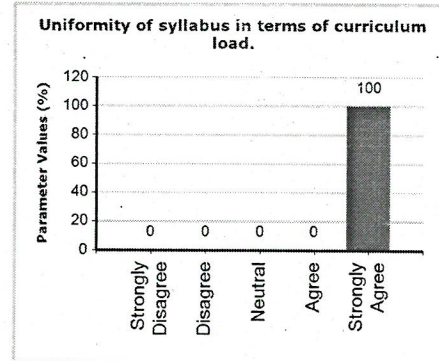
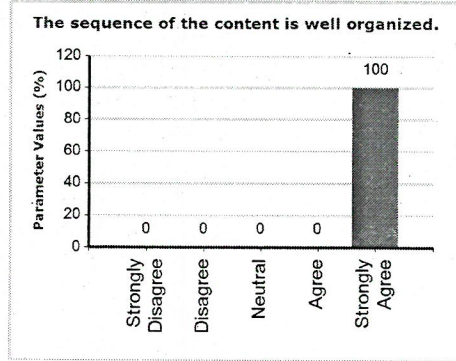
Date: 01/06/2022

As per the feedback obtained from alumni in the feedback process 34.78% alumni are agreed with that the curriculum of the programme is proper industry-academia relationship was maintained across the programme. Whereas 30.43% alumni are agreed that the course curriculum offers courses with practical and hands on learning experience.

Head Of Department
Computer Science Department
Uttaranchal Inst.

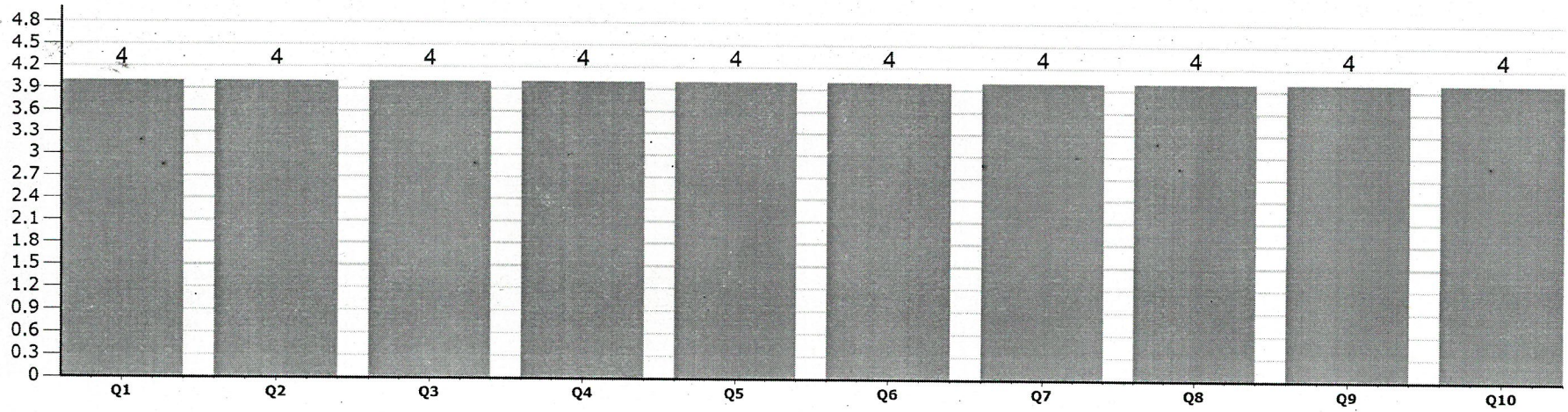
ANALYSIS OF STUDENT FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)

Programme : M.Tech. - COMPUTER SCIENCE AND ENGINEERING

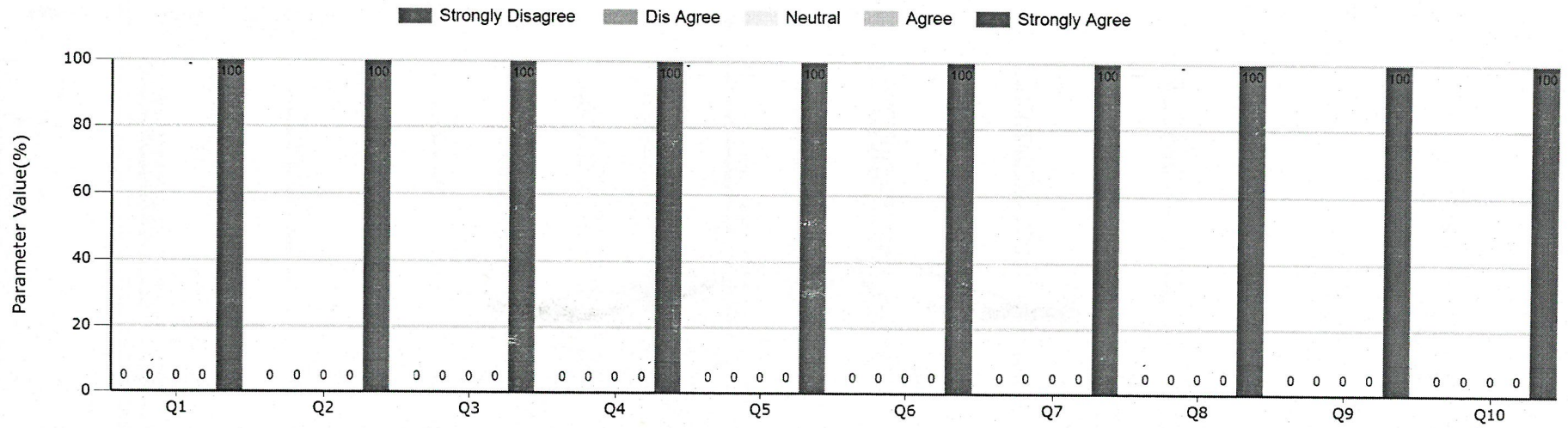


[Handwritten Signature]
 Head of Department
 Computer Science Department
 Uttaranchal University
 Dehradun - 248007

Average Rating



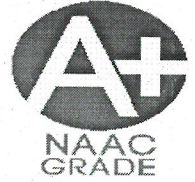
Summary Chart



[Handwritten Signature]
Head Of Department
Computer Science Department
Uttaranchal University
2017



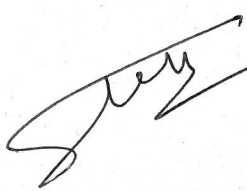
UTTARANCHALUNIVERSITY
(Established vide Uttaranchal University Act,
2012)(Uttarakhand Act No.11of2013)
Arcadia Grant, P.O. Chandanwari, Premnagar, Dehradun, Uttarakhand



UTTARANCHAL INSTITUTE OF TECHNOLOGY
Feedback Analysis Report
Academic Year: 2021-22
M. Tech Computer Science & Engineering

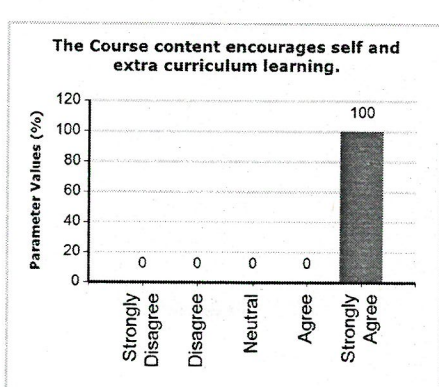
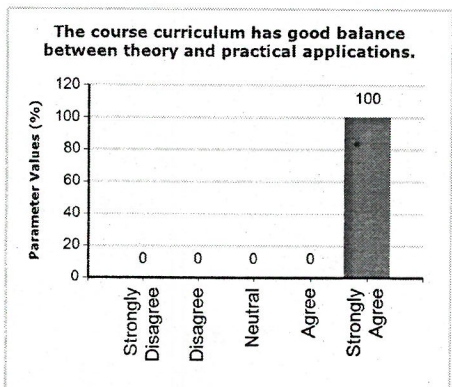
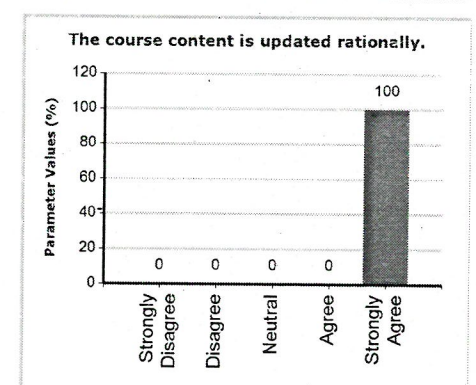
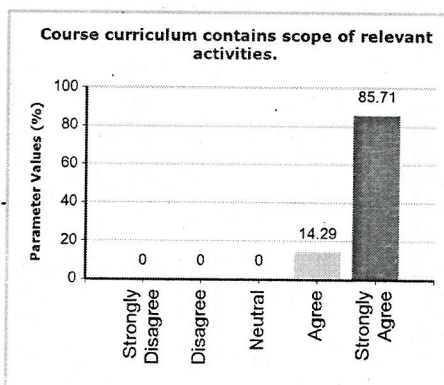
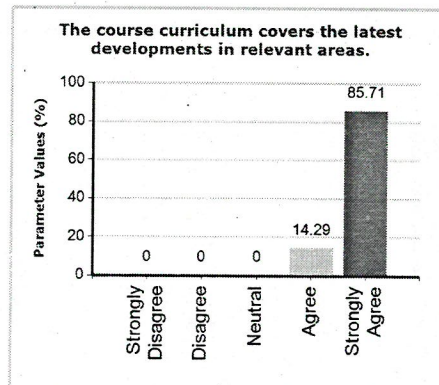
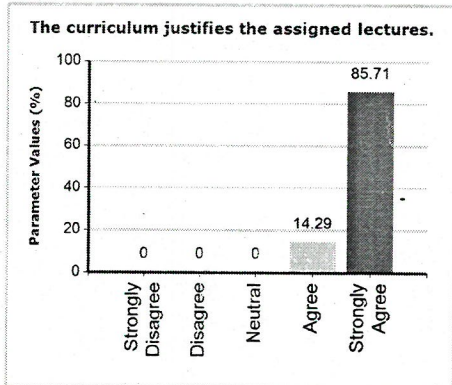
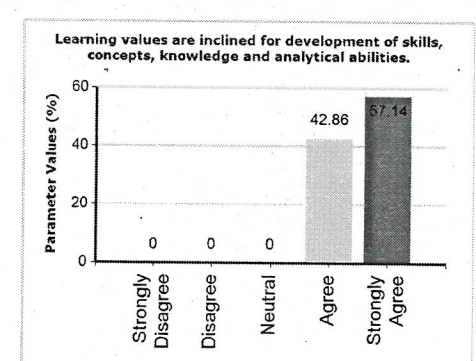
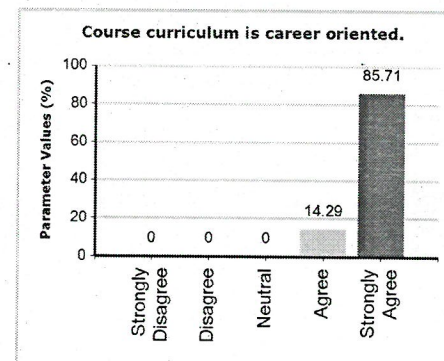
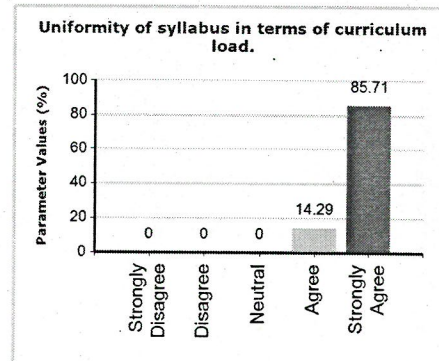
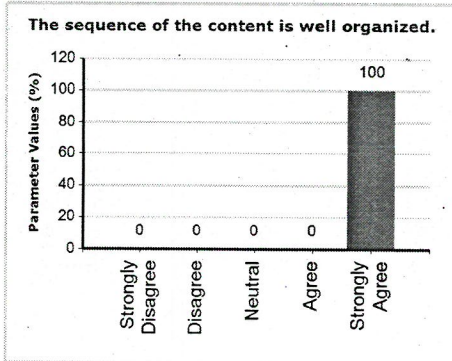
Date: 01/06/2022

As per the feedback obtained from students in the feedback process 100% students are strongly agreed with that the curriculum of the programme is uniformity of syllabus in the term of curriculum load. Whereas 100% students are strongly agreed that the course curriculum has good balance between theory and practical applications. Whereas 100% students are strongly agreed the course content encourages self and extra curriculum learning.


Head Of Department

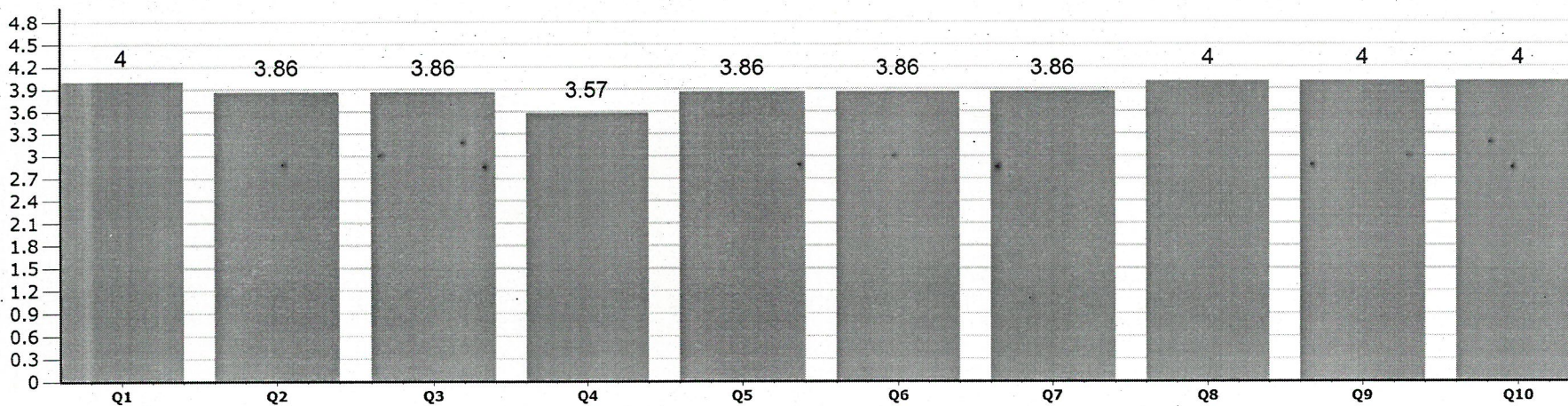
ANALYSIS OF STUDENT FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)

Programme : M.Tech. - COMPUTER SCIENCE AND ENGINEERING

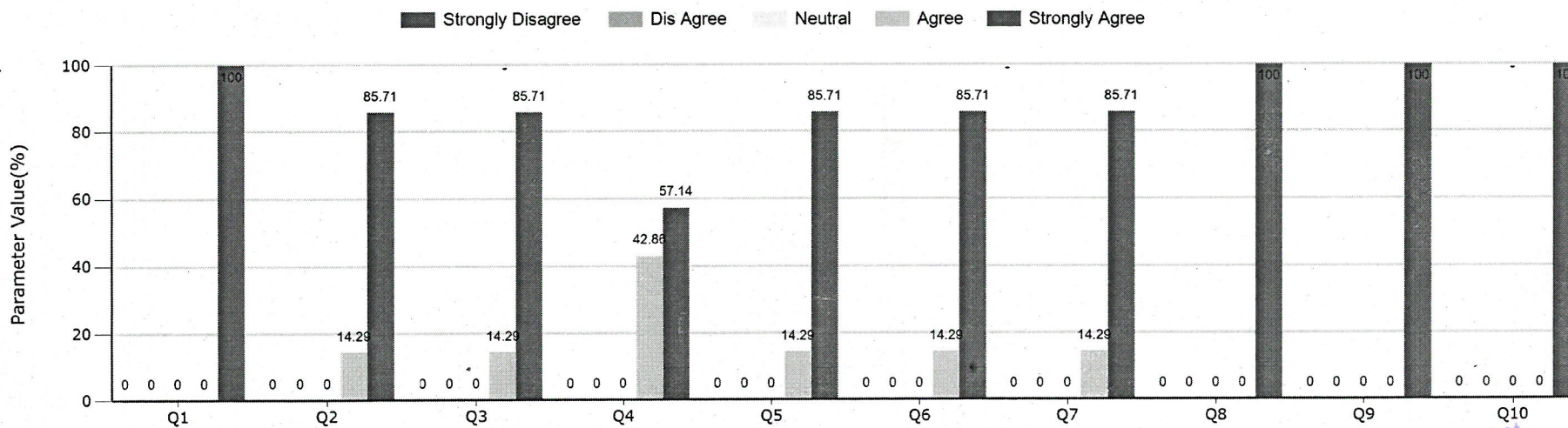



(Signature)
 Head of the Department
 Computer Science Department
 Uttaranchal University
 Dehradun (U.K.) - 248007

Average Rating

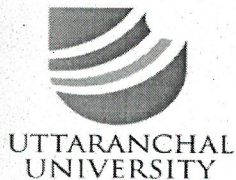


Summary Chart

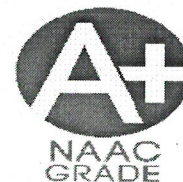




 H-111
 Computer Science Department
 Uttaranchal University
 Dehradun (U.K.)- 248007



UTTARANCHALUNIVERSITY
(Established vide Uttaranchal University Act,
2012)(Uttarakhand Act No.11of2013)
Arcadia Grant, P.O. Chandanwari, Premnagar, Dehradun, Uttarakhand



UTTARANCHAL INSTITUTE OF TECHNOLOGY

Feedback Analysis Report

Academic Year: 2021-22

M. Tech Computer Science & Engineering

Date: 01/06/2022

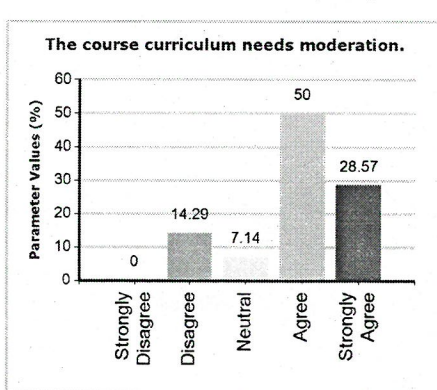
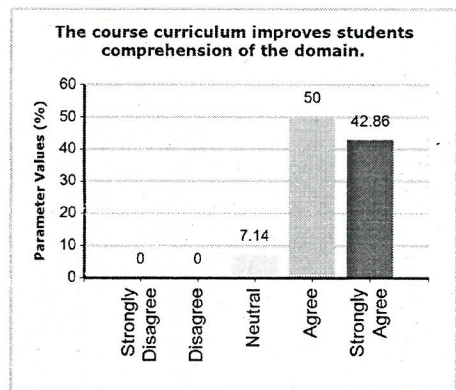
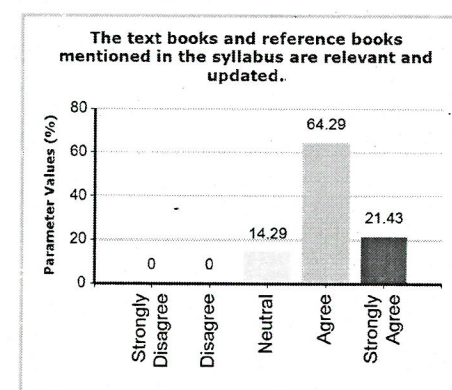
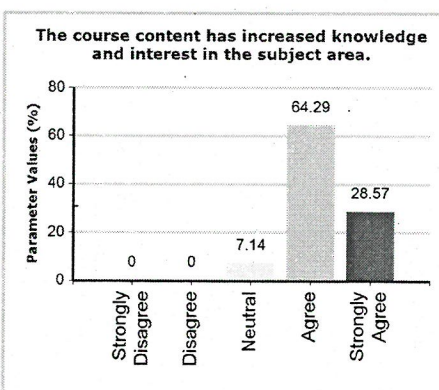
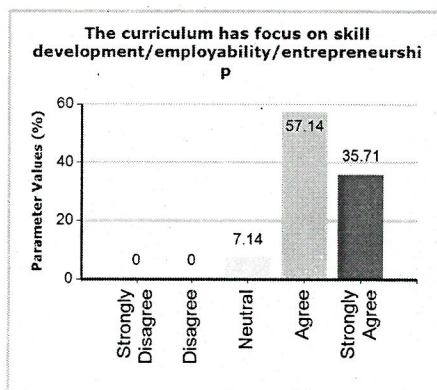
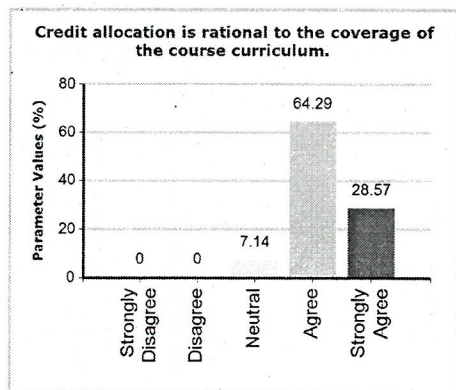
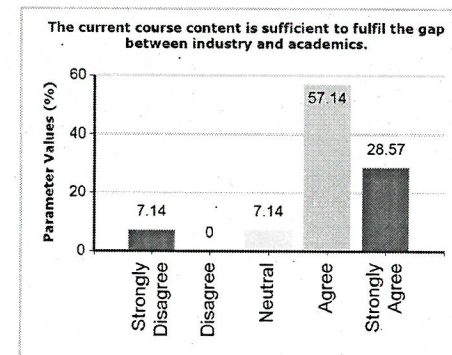
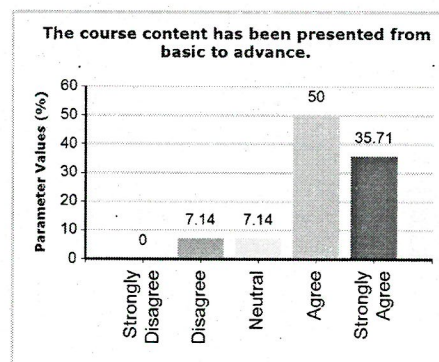
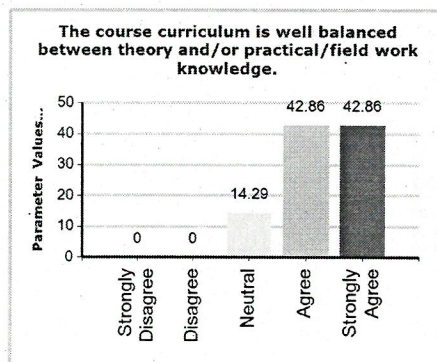
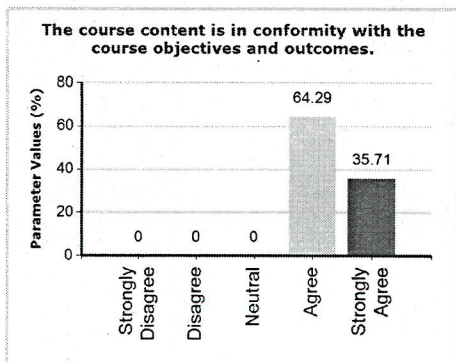
As per the feedback obtained from students in the feedback process 85.71% students are strongly agreed with that the curriculum of the programme is uniformity of syllabus in the term of curriculum load. Whereas 100% students are strongly agreed that the course curriculum has good balance between theory and practical applications. Whereas 100% students are strongly agreed the course content encourages self and extra curriculum learning.

A handwritten signature in black ink, appearing to be 'S. Singh'.

Head Of Department
Computer Science Department
Uttaranchal University
Dehradun, U.K. - 243007

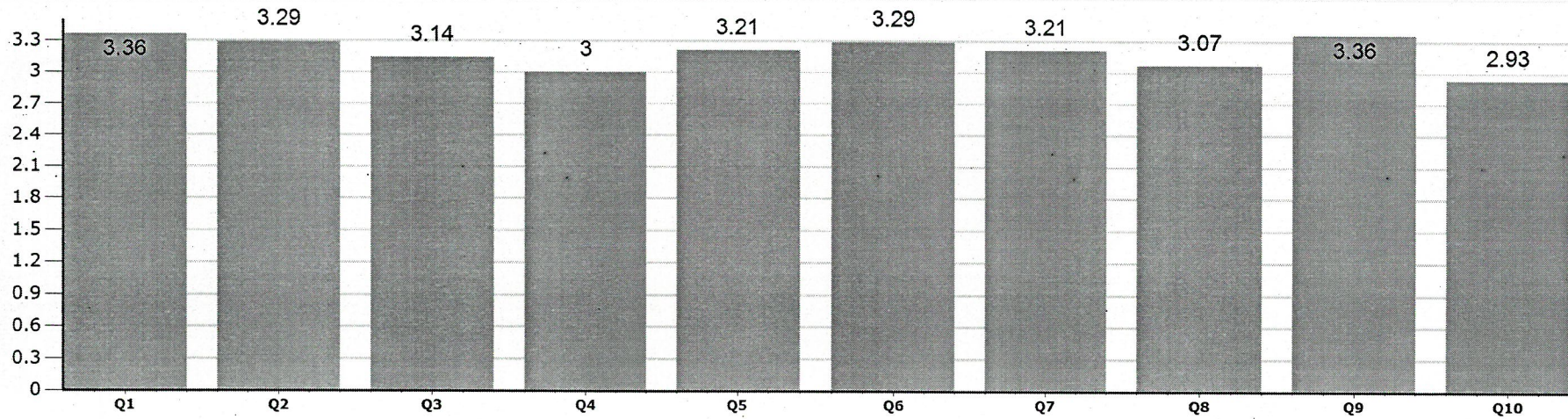
ANALYSIS OF FACULTY FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)

Programme : M.Tech. - COMPUTER SCIENCE AND ENGINEERING

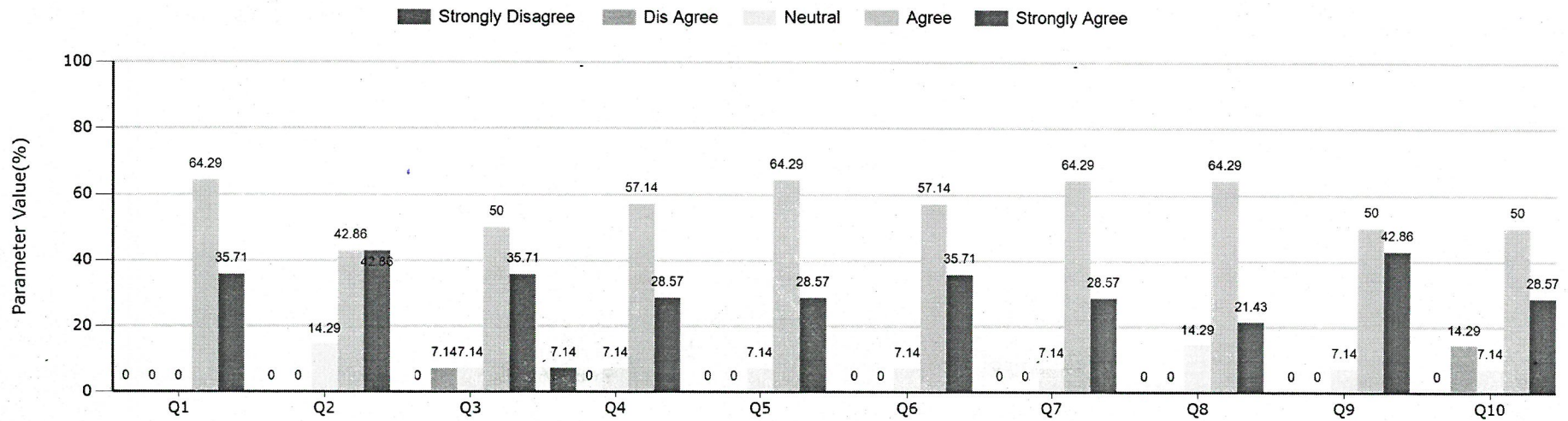



(Signature)
 Head Of Department
 Computer Science Department
 Uttaranchal University
 Dehradun (U.K.) - 248007

Average Rating



Summary Chart

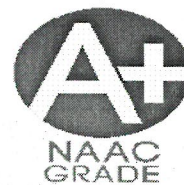



 Head Of Department
 Computer Science Department
 Uttarakhand University
 Dehradun (U.K.)- 248007



UTTARANCHAL UNIVERSITY

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



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

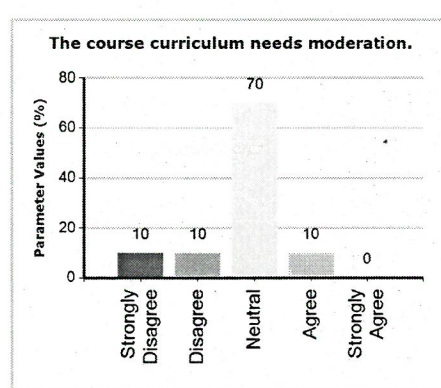
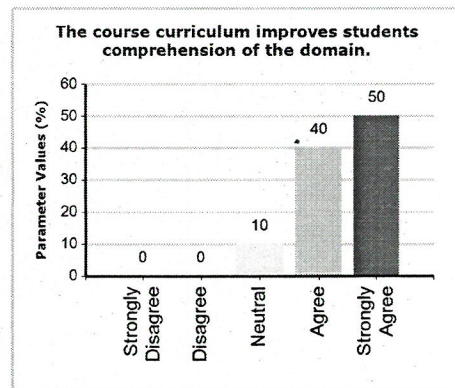
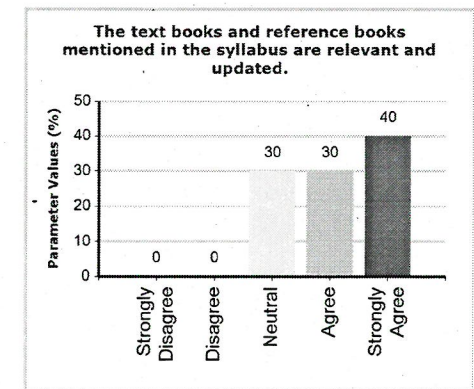
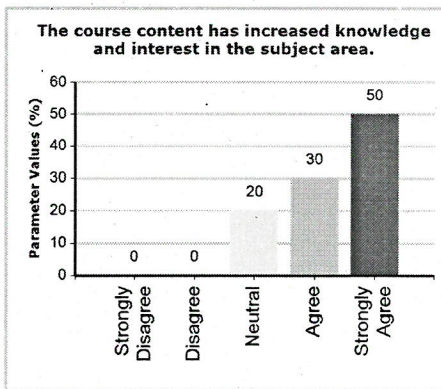
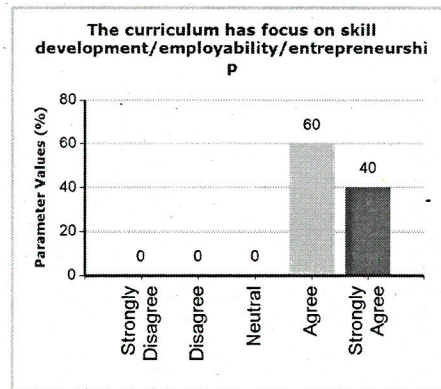
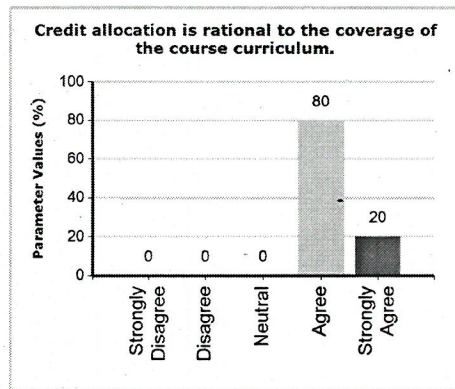
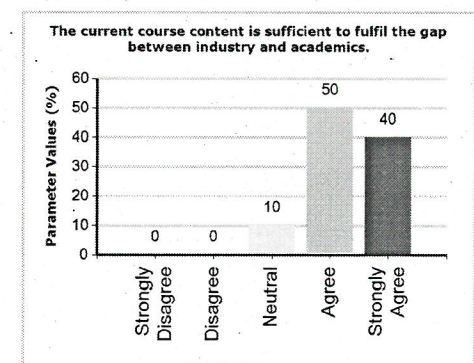
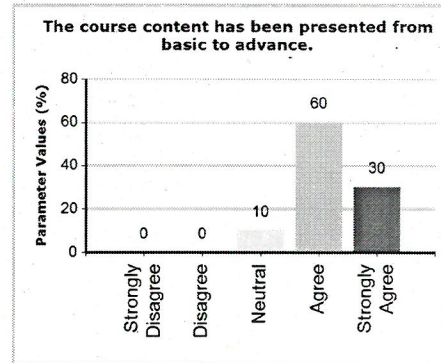
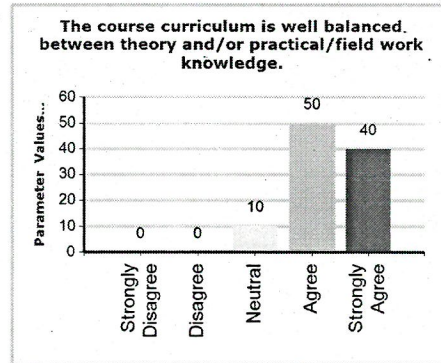
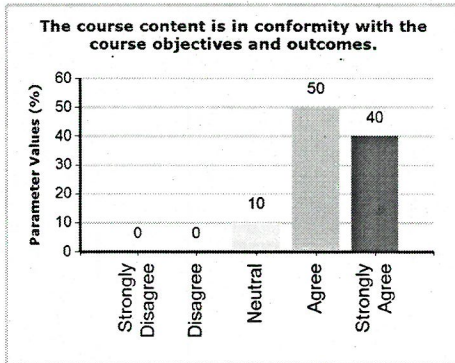
As per the feedback analysis of faculty on curriculum 2021-22 total of 64.29% faculties were agree with the course content is in conformity with the course objectives and outcomes. Whereas 42.86% were strongly agree with the course curriculum is well balanced between theoretical and practical knowledge. Total of 64.29% faculties were agree with the credit allocation is rational to the coverage of the course curriculum. On the other hand, 64.29% faculties were agreeing on that the course content has increased knowledge and interest in the subject area.

A handwritten signature in black ink, appearing to be 'S. K. Singh'.

Head of Department
Computer Science Department
Uttaranchal University
Dehradun, U.S. 248 002

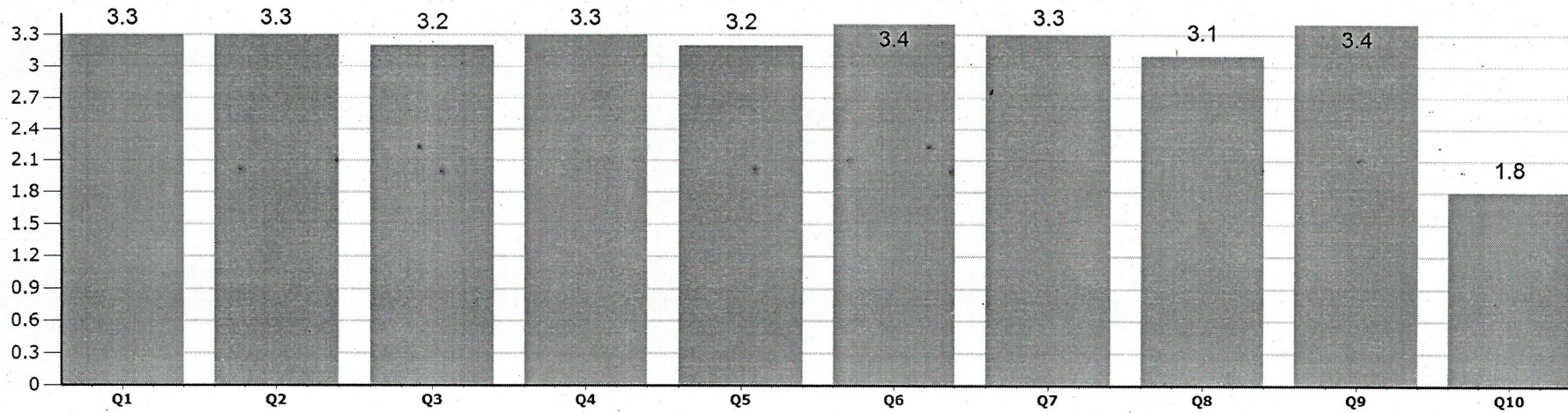
ANALYSIS OF FACULTY FEEDBACK ON CURRICULUM (Curriculum Feedback Analysis 2021-22)

Programme : M.Tech. - COMPUTER SCIENCE AND ENGINEERING

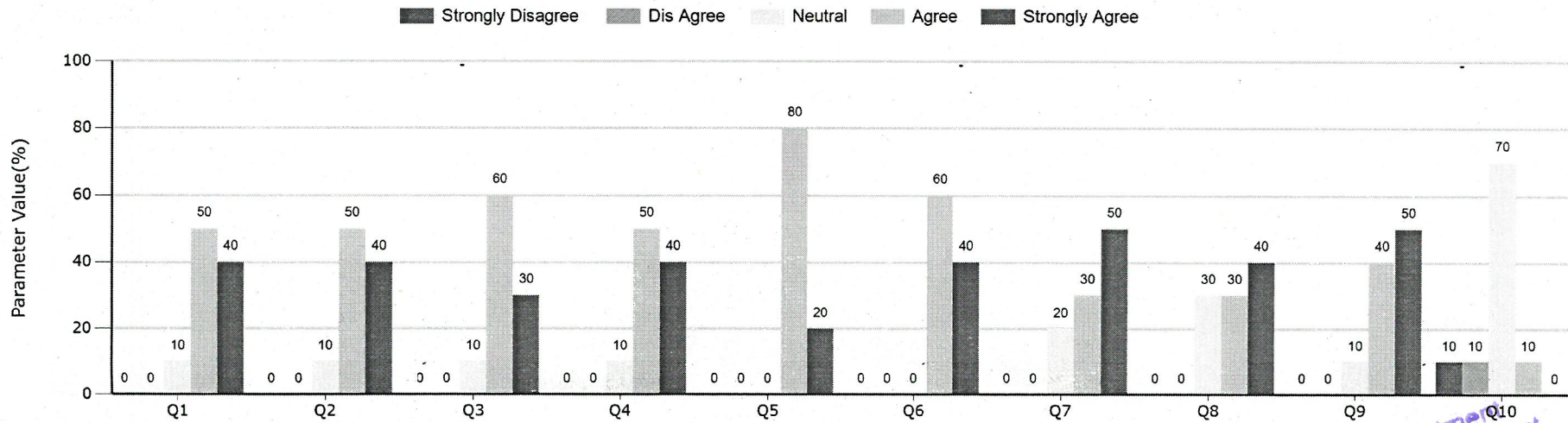



[Handwritten Signature]
 Head Of Department
 Computer Science Department
 Uttaranchal University
 Dehradun (U.K.) - 248007

Average Rating



Summary Chart

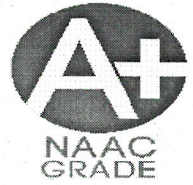



 Head Of Department
 Computer Science Department
 Uttarakhand University
 Dehradun (U.K.) - 248007



UTTARANCHAL UNIVERSITY

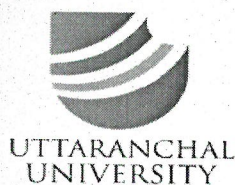
(Established vide Uttaranchal University Act,
2012)(Uttarakhand Act No.11 of 2013)



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

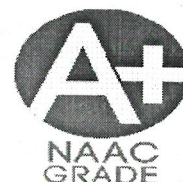
As per the feedback analysis of faculty on curriculum 2021-22 total of 50% faculties were agree with the course content is in conformity with the course objectives and outcomes. Whereas 50% were strongly agree with the course curriculum is well balanced between theoretical and practical knowledge. Total of 90% faculties were agree with the credit allocation is rational to the coverage of the course curriculum. On the other hand, 50% faculties were strongly agreed on that the course content has increased knowledge and interest in the subject area.

A handwritten signature in black ink, appearing to be 'S. S. S.', with a long horizontal line extending to the right.



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

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



UTTARANCHAL INSTITUTE OF TECHNOLOGY
Feedback Analysis Report
Academic Year: 2021-22
M. Tech Computer Science & Engineering

Date: 01/06/2022

The department has collected feedback from the stakeholders (Faculty, Students,) on the curriculum in pursuit of continuous improvements to comply with industry, social and environmental requirements. The details of the feedback received are as follows.

The department proposed the following recommendations on the basis of feedback and suggestions received (Annexure-1):


S.NO.	Recommendations
1	As guidelines of AICTE, UGC state government and NEP2020, credit should be minimized from the 2022-23 session to provide access to quality education.
2.	As demanded by the faculty, students new courses need to be incorporated to fulfil research and industry need.
3.	More Values added courses should also incorporated for Postgraduates.
4	Expert suggested to incorporate audit courses/non credit courses for the postgraduate students.

Submitted to Director, for necessary action.

Encl: Feedback Analysis Report

Copy to:

Director IQAC


Dr. Sunil Ghildiyal
, Head of Department
Department of Computer Science & Engg.-UIT

Head Of Department
Computer Science Department
Uttaranchal University
Dehradun (U.K.)- 248007

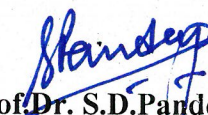
UTTARANCHAL INSTITUTE OF TECHNOLOGY
Action Taken Report
Academic Year: 2020-21
M. Tech Computer Science & Engineering

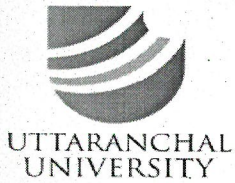
Date: 01/06/2021

The points were discussed on the basis of the feedback received and the following actions were taken to resolve the recommendation of the stakeholders:

S.No.	Recommendations	Action Taken
1	Credit Minimized in the entire program	To reduce the excess burden and to provide quality education credit minimized (70) from the academic session 2022-23 for the program M.Tech Computer Science and Engineering as per the guidelines of NHEQF.
2.	new courses incorporated based on industry and research.	Content of the courses CLUSTER AND GRID COMPUTING(MCCS-101), Data Preparation and Analysis(MCCS-103), Quantum Computing(MCCS-301), Computer Vision(MCCS-302) approved for the session 2022-23 for the program M.Tech Computer Science and Engineering.
3.	More Value-added courses	Department introduced ten value added courses for the academic session 2022-23, like Numerical Modeling using MATLAB(UITCS-VAC01), Advance Graphical programming (UITCS-VAC02), Latex(UITCS-VAC03), NS2(UITCS-VAC04), Hardware and Troubleshooting (UITCS-VAC05), Linux administration (UITCS-VAC06), Chatbot Development (UITCS-VAC07), Blockchain and Cryptocurrency (UITCS-VAC08), Augmented Reality(UITCS-VAC09) and Android application development(UITCS-VAC10) the courses will be run as per Student Choice.
4	Introduction of Audit courses	Department incorporate five audit/non credit courses in the course curriculum in MTECH programme like English and research paper writing(MCCS-105), disaster management(MCCS-106), value education(MCCS-107), constitution of india(MCCS-205), personality development through life enlightenment skills(MCCS-206)

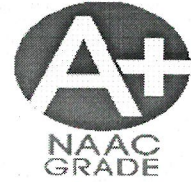
Copy to:
PA to Vice-Chancellor: for his kind information please
Director IQAC


Prof. Dr. S.D. Pandey
Dean, UIT



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

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



UTTARANCHAL INSTITUTE OF TECHNOLOGY
Feedback Analysis Report
Academic Year: 2021-22
B. Tech Computer Science & Engineering

Date: 01/06/2022

The department has collected feedback from the stakeholders (Faculty, Students, Alumni, Employer) on the curriculum in pursuit of continuous improvements to comply with industry, social and environmental requirements. The details of the feedback received are as follows.

The department proposed the following recommendations on the basis of feedback and suggestions received (Annexure-1):

S.NO.	Recommendations
1.	As guidelines of AICTE, UGC state government and NEP2020, credit should be minimized from the 2021-22 session to provide access to quality education.
2.	There should be throughout practice for students to work on project work to enhance the technical skills and teamwork ability among the students suggested by Alumni, Industry experts and Faculty as well.
3.	Requirement of incorporation of Value added courses in the curriculum suggested by Alumni, Industry experts and Faculty to offer personal development and intellectual growth opportunities . Students who participate in these courses will expand their minds and learn new information about areas of interest.
4.	Expert suggested to incorporate audit courses/non credit courses for the postgraduate students.
5.	Expert suggested to introduce open elective course for the university basket to enrich the curriculum with multidisciplinary courses
6.	As per suggestions by the faculty members few courses content should be revised as per the current industry and society requirements.
7.	Expert suggested to introduced specialization in cyber security and Data Science as per the current industry needs.

Submitted to Director, for necessary action.

Encl: Feedback Analysis Report

Dr. Sunil Ghildiyal
, Head of Department
Department of Computer Science & Engg.-UIT

Copy to:

Director IQAC

Head Of Department
Computer Science Department
Uttaranchal University
Dehradun (U.K.)- 248007

UTTARANCHAL INSTITUTE OF TECHNOLOGY
Action Taken Report
Academic Year:2021-22
B. Tech Computer Science & Engineering

Date: 01/06/2022

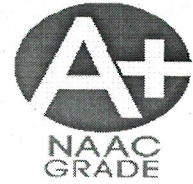
The points were discussed on the basis of the feedback received and the following actions were taken to resolve the recommendation of the stakeholders:

S.No.	Recommendations	Action Taken
1.	Credit Minimized in the entire program.	To reduce the excess burden and to provide quality education credit minimized (164) from the academic session 2022-23 for the program B.Tech Computer Science and Engineering and 184 credit for B.Tech Computer Science and Engineering with specialization. 70 credits
2.	Implementation of Project Work in the course curriculum throughout from 2 nd year to 4 th year.	Mini Project or Internship (CSS-01), Mini Project or Internship (CSS-02), Mini Project or Internship (CSS-03) were introduced in the course curriculum for 3 rd , 5 th and 7 th semester respectively.
3	More Value Added Courses	Department introduced ten value added courses for the academic session 2022-23, like Numerical Modeling using MATLAB(UITCS-VAC01), Advance Graphical programming (UITCS-VAC02), Latex(UITCS-VAC03), NS2(UITCS-VAC04), Hardware and Troubleshooting (UITCS-VAC05), Linux administration (UITCS-VAC06), Chatbot Development (UITCS-VAC07), Blockchain and Cryptocurrency (UITCS-VAC08), Augmented Reality(UITCS-VAC09) and Android application development(UITCS-VAC10) the courses will be run as per Student Choice.
4.	Introduction of noncredit courses	Department incorporate six non credit courses in the course curriculum in BTECH programme like Environmental science/ Introduction of cyber physical system(TESN-101/201), Human computer interaction (TCSN-301), Digital Image processing(TCSN-401), Introduction to Indian Constitution (THUN-501), Essence of Indian Traditional Knowledge(THUN-601)
5	introduce open elective course for the university basket	After many deliberations with CRC, ARC members of the departments the course Emerging trends in computer science(TOCS-601) proposed for the basket of university open elective




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

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



6	courses content revision	After analysis of the faculty, students feedback the following course content revised: Artificial Intelligence (TCS-601), Visual programming and Dot net(TCS-603), computer graphics (TCS-604), Big data analytics(613), Artificial Intelligence Lab (PCS-601), Visual programming and Dot net Lab(PCS-603), , computer graphics (PCS-604), Pattern recognition(TCS-611). Internet of THINGS(TCS-802), Introduction to object oriented programming using python lab (PCS-102)
7	Introduction of new specialization	Department incorporate to new specialization for BTECH computer science and engineering in Cyber security and Data Science with 11 additional courses and 20 additional credits.


Prof. Dr. S.D. Pandey
Dean, UIT

Copy to:
PA to Vice-Chancellor: for his kind information please

Director IQAC



Ref. No.: UU/UIT/CSE/CRC/2022/1

04th April 2022

**Department of Computer Science & Engineering
Uttaranchal Institute of Technology**

Notice

Dear Members,

You are requested to make yourself available as per the time and schedule in UIT Board Room for Curriculum Review Committee meeting.

Date: 15th April 2022

Time: 02:30 PM

Agenda Items of the meeting:

Agenda Item 1: Analysis of the feedback of stakeholders on the Curriculum for B.Tech. in Computer Science & Engineering and M.Tech. in Computer Science & Engineering.

Agenda Item 2: Discussion for up-gradations/modification of syllabus of B.Tech. in Computer Science & Engineering and M.Tech. in Computer Science & Engineering.

Agenda Item 3: Preparation of Evaluation Scheme and Syllabus for Programme introduced i.e. B. Tech (Hons.) in Computer Science & Engineering with specialization in –

1. B.Tech. Computer Science and Engineering
2. B.Tech (Hons). CSE with specialization in Data Science.
3. B.Tech (Hons). CSE with specialization in Cyber Security.
4. B.Tech (Hons). CSE with specialization in Cloud Computing.
5. B.Tech Hons. specialization in Artificial Intelligence & Machine Learning.
6. B.Tech Hons. specialization in Big Data Analytics.
7. B.Tech Hons. specialization in Internet Of Things(IoT).
8. B.Tech Hons. specialization in Cyber Security(Association with IBM)
9. B.Tech Hons. specialization in Data Science(Association with IBM)
10. B.Tech Hons. specialization in Internet Of Things(IoT)(Association with IBM)
11. B.Tech Hons. specialization in Cloud Computing(Association with IBM)
12. B.Tech Hons. specialization in Artificial Intelligence & Machine Learning(Association with IBM).
13. B.Tech Hons. specialization in Big Data Analytics(Association with IBM)

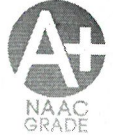


UTTARANCHAL
UNIVERSITY

UTTARANCHAL UNIVERSITY

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

Premnagar-248007, Dehradun, Uttarakhand, INDIA



Agenda Item 4: Any other item with the approval of the chair.

Ms. Madhu Kiorla
Member Secretary,
CRC Committee

Cc:

1. Dr. Sunil Ghildiyal (Chairperson-CRC)
2. Prof. (Dr.) S.D. Pandey (Dean-UIT)
3. All the faculty members

Ref. No.: UU/UIT/CSE/CRC/2022/2

16th April 2022

**Department of Computer Science & Engineering
Uttaranchal Institute of Technology**

Minutes of Meeting-CRC

Date of Meeting: 15th April 2022

Time: 02:30 PM

Venue: Board Room-UIT, Uttaranchal University, Dehradun

The meeting started with a welcome note by the chairperson of the Curriculum Review Committee Dr. Sunil Ghildiyal, HOD- CSE, UIT. The committee discussed the agenda points with the members of the Curriculum Review Committee: The discussions on various agenda points are as follows:

Agenda of the meeting:

Agenda 1: Analysis of syllabus of the feedback of stakeholders on Curriculum for B.Tech. in Computer Science & Engineering and M.Tech. in Computer Science & Engineering.

The feedback on curriculum was taken by the concerned on the ERP through different questionnaire from the stakeholders. Each Questionnaire is assigned a weightage of 4 points. However, revisions can also be done as per the comments /suggestions in the feedback from the stakeholders.

The members of the Curriculum Review Committee analyzed the feedback on the curriculum the following was found:

Student Feedback: Based on the above criteria the student feedback on curriculum was analyzed and was found to be satisfactory for undergraduate and post graduate programme.

Faculty Feedback: On the basis of the above-mentioned criteria the faculty feedback on curriculum was analyzed for the session 2021-22 and it was found that moderations were suggested in the following courses:

S. No.	Programme	Course Name & Course Code	Comments/Suggestions
1		ARTIFICIAL INTELLIGENCE(TCS-601)	Some of the contents of the course should be modified as per the requirement of the Industry.
2		VISUAL PROGRAMMING & DOTNET	The course curriculum needs to have 2 semesters for the subject to include basic

	B.Tech. in Computer Science & Engineering	TECHNOLOGIES(TCS-603)	and advanced topics just like java programming.
3		COMPUTER GRAPHICS(TCS-604)	The course needs advanced laboratories to perform knowledge based practicals.
4		BIG DATA ANALYTICS-II(TCS-613)	Course needs some moderations
5		ARTIFICIAL INTELLIGENCE LAB(PCS-601)	The number of practicals should be increased as per industry needs.
6		VISUAL PROGRAMMING & DOTNET TECHNOLOGIES LAB(PCS-603)	The course needs curriculum to have 2 semesters for the subject to cover basic and advanced topics.
7		COMPUTER GRAPHICS LAB(PCS-604)	advanced laboratory is required with professional tools and simulators installed for performing knowledge based practicals
8		PATTERN RECOGNIZATION USING MATLAB(PCS-611)	MATLAB will be more elaborated in terms of code
9		INTERNET OF THINGS(TCS-802)	There is a need to change the syllabi.
10		INTRODUCTION TO OBJECT ORIENTED PROGRAMMING USING PYTHON LAB(PCS--201)	required some more practical's on user define data type. Some advanced topic missed.
1		M.Tech. in Computer Science & Engineering	WEB SERVICES AND XML(MCCS-204)
2	WEB SERVICES AND XML LAB (MCCS-252)		Course Content is designed as the industry needs but needs some moderation.
3	CYBER SECURITY(MCCS-205)		We should go for some project work.

Alumni Feedback: The Alumni feedback on Curriculum was analyzed as per the above-mentioned criteria, and it was found to be satisfactory for undergraduate and post graduate programme.

Employer Feedback: The Employer feedback on Curriculum was analyzed as per the above-mentioned criteria and it was found to be satisfactory for undergraduate and post graduate programme.

Parents Feedback: The Parent feedback on Curriculum was analyzed as per the above-mentioned criteria and it was found to be satisfactory for undergraduate and post graduate programme. However, they suggested that the industrial exposure should be enhanced so that the students can better understand technical applications and the working of the industry.

Agenda 2: Discussion for up-gradations/modification of syllabus of B.Tech. in Computer Science & Engineering and M.Tech. in Computer Science & Engineering.

Beyond the feedback on the curriculum the following changes have been proposed:

Under-Graduate Programme: B.Tech. in Computer Science & Engineering

The courses Dockers & Kubernetes, Human Values and Professional Ethics, Deep Learning, Cognitive Computing, Predictive Analytics Modelling, Security & Data Privacy Laws and Standards, RDBMS, Cloud Application Developer, Cloud Infrastructure and Services, Cloud Security, Service-Oriented Architecture, Cyber-Physical System, Ethical Hacking Fundamentals & Penetration Testing, IT System security Lab, Cyber Crime Investigation & Digital Forensics Risk Analysis and Assessment, Data Handling and Visualization Lab, Cryptography and Network security, Text Analytics and Natural Language Processing, IoT Cloud and Data Analytics added in new curriculum of B.Tech. CSE(Hons.) with Specialization in AIML, Big Data Analytics, Cloud Computing, IoT, Data Science, and Cyber Security 2022-23 onwards.

Post Graduate Programme: M.Tech. in Computer Science & Engineering

- Machine Learning, Wireless Mobile Networks, Linux Kernel Internals and Network Programming, Quantum Computing, Cluster and Grid Computing, Data Security and Access Control courses added in new curriculum of M.Tech. CSE 2022-23 onwards.
- Suggestions given by the Students of M.Tech. (CSE) for the incorporation of Value Added course- LaTeX was discussed positively and found that it will be helpful for the students to enhance their scientific writing and industrial documentation skills of the students.

Agenda 3: Preparation of Evaluation Scheme and Syllabus for Programme introduced i.e. B.Tech. (Hons.) in Computer Science & Engineering with specialization in AIML, Big Data Analytics, Cloud Computing, IoT, Data Science, and Cyber Security with and without industrial collaboration and M.Tech. in Computer Science & Engineering.

Keeping in view the latest trends and future requirements of Industry, Evaluation Scheme and Course Curriculum will be prepared for B.Tech. (Hons.) in Computer Science & Engineering with specialization in with specialization in AIML, Big Data Analytics, Cloud Computing, IoT, Data Science, and Cyber Security with and without industrial collaboration and M.Tech. in Computer Science & Engineering for the consideration of Academic Review Committee. [Annexure-Evaluation Scheme]

The Curriculum Review Committee after a thorough discussion designed and propose the curriculum as per the AICTE guidelines for Undergraduate & Post Graduate courses which consisted of 164 credits for B.Tech. in Computer Science & Engineering, 184 credits for B.Tech. (Hons.) in Computer Science & Engineering with specialization in AIML, Big Data Analytics, Cloud Computing, IoT, Data Science, and Cyber Security, 70 Credits for M.Tech. in Computer Science & Engineering for the perusal of the Academic Review Committee.



UTTARANCHAL UNIVERSITY

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



The meeting ended with the Vote of Thanks by the Chairman of the Committee.



Member



Member



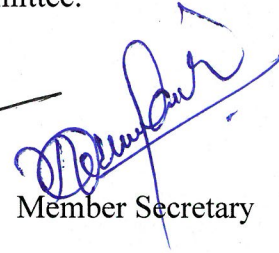
Member



Member



Member



Member Secretary






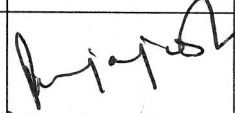
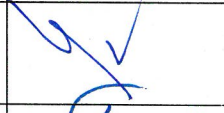
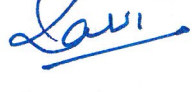
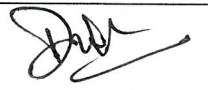


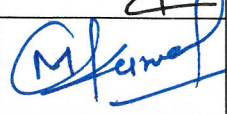
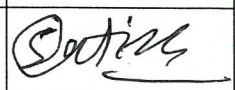


Chairperson

Department of Computer Science & Engineering

List of Faculty Members

Members present:

S.No.	Name of Faculty	Designation	Signature
1	Dr. Sunil Ghildiyal	Associate Professor (Chairperson)	
2	Ms. Madhu Kirola	Assistant Professor(Member Secretary)	
3	Dr. Minakshi Memoria	Associate Professor(Member)	
4	Dr. Musheer Vaquar	Assistant Professor(Member)	
5	Dr. Kapil Joshi	Assistant Professor(Member)	
6	Dr. Pooja Joshi	Assistant Professor(Member)	
7	Mr. Prashant Chaudhary	Assistant Professor(Member)	
8	Mr. Ravi Dhaudiyal	Assistant Professor(Member)	
9	Mr. Dev Baloni	Assistant Professor(Member)	
10	Mr. Somil Kumar Gupta	Assistant Professor(Member)	
11	Ms. Aarti Rana	Assistant Professor(Member)	
12	Mr. Mukesh Kumar	Assistant Professor(Member)	
13	Mr. Satish Mahariya	Assistant Professor(Member)	



UTTARANCHAL
UNIVERSITY

UTTARANCHAL UNIVERSITY

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

Premnagar-248007, Dehradun, Uttarakhand, INDIA



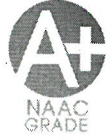
14	Mr. Anuraj	Assistant Professor(Member)	
15	Mr. Mukesh Pandey	Assistant Professor(Member)	
16	Mr. Anuj Kumar	Assistant Professor(Member)	
17	Ms Sudhani Verma	Assistant Professor(Member)	
18	Mr. Ram Narayan	Assistant Professor(Member)	



UTTARANCHAL UNIVERSITY

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

Premnagar-248007, Dehradun, Uttarakhand, INDIA



Ref. No.: UU/UIT/CSEE/ARC/2022/1

05th April 2022

Department of Computer Science & Engineering Uttaranchal Institute of Technology

Notice

Dear ARC Members,

You are requested to make yourself available as per the time and schedule in UIT Board Room for Academic Review Committee meeting.

Date: 29th April 2022

Time: 03:30 PM

Venue: Board Room-UIT, Uttaranchal University, Dehradun

Agenda Items of the meeting:

Agenda Item 1: Consideration of suggestion of B.O.S Meet conducted in Odd Semester Session 2021-22.

Agenda Item 2: To analyze the recommendations forwarded by the Curriculum Review Committee meeting held on 15th April 2022 under the backdrop of statutory requirements and guidelines of the regulatory bodies, AICTE, UGC, State Government & NEP 2020.

Agenda Item 3: To Review the Curriculum development for the Undergraduate and Postgraduate programmes as per NEP 2020 and industry requirements.

Agenda Item 4: To Consider the directions/suggestions given by NAAC implementation of NEP - 2020 in Curriculum of Undergraduate & PostGraduate programme.

Agenda Item 5: To prepare a Basket of Value Added Courses.

Agenda Item 6: To propose a course for the Basket of University Open Elective.

Agenda Item 7: Any other item with the approval of the chair.

Dr. Sunil Ghildiyal
Member Secretary,
ARC Committee

Cc:

1. Prof. (Dr.) S.D. Pandey (Chairperson-ARC)
2. All the members



Ref. No.: UU/UIT/ME/ARC/2022/2

02nd May 2022

**Department of Computer Science & Engineering
Uttaranchal Institute of Technology**

Minutes of Meeting-ARC

Date of Meeting: 29-April-2022

Time: 03:30 PM

Place: Board Room-UIT, Uttaranchal University, Dehradun

The meeting started with a welcome note by the Chairperson of the Academic Review Committee Prof. (Dr.) S. D. Pandey, Dean- UIT. The committee discussed the agenda points with the members of the Academic Review Committee: The discussions on various agenda points are as follows:

Agenda 1: Consideration of suggestion of B.O.S Meet conducted in Odd Semester Session, 2021-22.

To incorporate the suggestions made in the B.O.S Meet conducted in Odd Semester Session 2021-22 the following needs to be done:

- A basket of Multidisciplinary/Interdisciplinary courses is introduced for under graduate & post graduate programs offered by the Department. [**Attached in scheme**]
- Induction of the specialization course on B.Tech. (Hons.) in Computer Science and Engineering with specialization in Data Science and Cyber Security.
- Preparation of separate Evaluation Scheme for the B.Tech. in Computer Science and engineering & B.Tech. (Hons.) in Computer Science and engineering with specialization in, AIML, Big Data Analytics, Cloud Computing, IoT, Data Science, and Cyber Security [**Attached in scheme**]

The above suggestions considered and forwarded to BOS (Even Semester) 2022-23.

Agenda 2: To analyze the recommendations forwarded by the Curriculum Review Committee meeting held on 15th April 2022 under the backdrop of statutory requirements and guidelines of the regulatory bodies, AICTE, UGC, State Government & NEP 2020.

- a. The Academic Review Committee approved on 164 credits for under graduate program B.Tech. in Computer Science and Engineering, 184 credits for B.Tech. (Hons.) in Computer Science and Engineering with specialization in AIML, Big Data Analytics, Cloud

Computing, IoT, Data Science, and Cyber Security, 70 Credits for M.Tech. in Computer Science and Engineering, keeping in considerations of the AICTE guidelines & NEP 2020 Rfor Undergraduate & Post Graduate Programme. Also Consider the ATR of CRC

Meeting. It was reviewed thoroughly and the committee resolved to recommended to BOS for necessary action.

- b. Consider the feedback of faculty members for upgradation/modification of syllabus, recommended to BOS for necessary action.
- c. Discuss and consider evaluation scheme and syllabus for program has prepared by faculty members.

Hence after thorough discussion committee draft of B.Tech. & M.Tech. courses and resolved to put forward it to BOS for consideration.

Agenda 3: To review the Curriculum development for Undergraduate & Post graduate programme as per NEP 2020 and industry requirements.

The Committee propose the inclusion of following new courses in Undergraduate and Post Graduate Programme to enhance the industry relevance of the Course curriculums:

S. No.	Programme	Course Name & Course Code	Comments/Suggestions
1	B.Tech. in Computer Science and Engineering	Programme Elective – I (TCS-7XX) * Programme Elective – II (TCS-8XX) * Programme Elective – III (TCS-8XX) * Programme Elective – IV (TCS-8XX) * Programme Elective – V (TCS-8XX) *	Programme Electives to be started from 7 th Semester onwards.
2		Open Elective – I (UOE Basket) ** Open Elective – II (Txxx-7xx) *** Open Elective – III (Txxx-8xx)***	Open Electives to be started from 6 th Semester onwards
3		Environmental Science (TESN-101/201) Introduction to Cyber Physical Systems (TCSN-101/201) Human Computer Interaction(TCSN-301) Digital Image Processing (TMEN-401) Constitution of India (THUN-501) Essence of Indian traditional Knowledge (THUN-601)	Non – Credit Courses to be incorporated in each semester from 1 st Semester to 6 th Semester
4		Research Methodology & IPR (TCS-605) Entrepreneurship Development (THU-801)	Courses to promote Research and Entrepreneurship in the Course Curriculum
5		B.Tech. (Hons.) in Mechanical Engineering with specialization in AIML, Big Data	Detailed Scheme Attached

	Analytics, Cloud Computing, IoT, Data Science, and Cyber Security		
6	M.Tech. in Computer Science and Engineering	English for Research Paper Writing (Audit - 1) Constitution of India (Audit - 2)	Inclusion of Non Credit Audit Courses as per AICTE guidelines for post graduate programmes
		Research Methodology and IPR (MCCS-)	Courses to promote Research in the Course Curriculum
		Detailed Scheme Attached (as Annexure IV)	Inclusion of new industry relevance courses

*List of Courses in Programme Electives attached as Annexure-I

**List of Courses in University Open Electives Basket attached as Annexure-II.

*** List of Courses in University Open Electives Basket attached as Annexure-III

The committee has discussed thoroughly the above-propose list of courses and recommended to BOS for consideration & approval.

Agenda 4: To consider the directions/suggestions received from NAAC and ensure its implementation wherever applicable.

1. Committee restructured the PEOs keeping in view, the guidelines as per NEP-2020. It was agreed to put forward the recommendations to BOS.

	Present PEOs	As per NEP-2020
PEO1	Explore opportunities in the field of engineering to utilize their professional skills on global platforms and would effectively complete their post-graduation and research program.	Explore opportunities in the field of engineering to utilize their professional skills on global platforms and would effectively complete their higher studies and research program.
PEO2	Contribute the specialized knowledge, effectively and consistently towards the multidimensional growth of the society with primary focus on environment.	Contribute the specialized knowledge, effectively and consistently towards the multidimensional growth of the society with primary focus on industry and environment .
PEO3	Enhance the communication skills and work as a vibrant, dynamic	Enhance the communication skills and work as a vibrant, dynamic

	team leader which leads to an asset in a progressive society.	team leader which leads to an asset in a progressive society.
PEO4	Attain the ability to work in an ethical manner and prove to be an integral & responsible resource in a high potential organization (society) and able to grow steadily, and consistently in a multifaceted way.	Attain the ability to work in an ethical manner and prove to be an integral & responsible resource in a high potential organization (society) and able to grow steadily, and consistently in a multifaceted way.

2. Industry Oriented courses added in order to develop Employability Skills, develop the curriculum and assess its quality and effectiveness to the highest of professional standards. It was agreed to put forward the recommendations to BOS.

S.No	PROGRAM NAME	COURSE CODE	COURSE NAME	Skill Enhancement/ Employability/ Entrepreneurship
1	B.Tech. CSE	TCSN 101/201	Introduction to Cyber Physical Systems	Skill Enhancement
2	B.Tech. CSE	TCS504	Fundamental Of Machine Learning	Employability
3	B.Tech. CSE	TCS604	Distributed System	Employability
4	B.Tech. CSE	TCS 605	Research Methodology & IPR	Skill Enhancement
5	B.Tech. CSE	THU 801	Entrepreneurship Development	Entrepreneurship
6	B.Tech. CSE	TCS601	Artificial Intelligence	Employability

3. Focused on integration of Indian knowledge system (Teaching in Indian language, culture, etc.) into the curriculum. It was agreed to put forward the recommendations to BOS.

S.No	PROGRAM NAME	COURSE CODE	COURSE NAME
1	B.Tech. CSE	THUN-501	Introduction to Indian Constitution
2	B.Tech. CSE	THUN-601	Essence of Indian traditional Knowledge

4. Qualification Type and Credit Requirements adopted as per guideline of UGC in NHEQF for credit transfer, multiple entry & exit process as:

NHEQF levels	Qualification title/nomenclature	Credit requirements
Level 5	Undergraduate Certificate (in the field of learning/discipline) for those who exit after the first year (2 semesters) of undergraduate programme. (Programme duration: First year or 2 semesters of the undergraduate programme).	40 credits
Level 6	Undergraduate Diploma (in the field of learning/discipline) for those who exit after the first two years (4 semesters) of undergraduate programme (Programme duration: First two years or 4 semesters of the undergraduate programme).	80 credits
Level 7	Bachelor's Degree (Programme duration: Three years or 6 semesters).	120 credits
Level 7	Bachelor of Vocation (B.Voc). (Programme duration: 3 years or 6 semesters).	120 credits
Level 7	Bachelor's Degree programme in Engineering & Technology. (Programme duration: Four years or 8 semesters).	160 credits
Level 8	Bachelor' Degree (Honours/Research). (Programme duration: Four years or 8 semesters).	180 credits

Agenda 5: To prepare a Basket of Value Added Courses.

The committee after thorough discussion proposes the following Value Added Courses for Session 2022-2023 & forwarded to BOS for approval.

S. No	Course Code	Name of Course	Duration
1.	UITCS-VAC01	Numerical Modelling using MATLAB	32 hrs
2.	UITCS-VAC02	Advanced Graphical Programming	32 hrs
3.	UITCS-VAC03	LateX	32 hrs
4.	UITCS-VAC04	Advanced Network Simulator 2 (NS2) for	32 hrs

		wireless networks	
5.	UITCS-VAC05	Hardware and Troubleshooting	32 hrs
6.	UITCS-VAC06	Linux administration	32 hrs
7.	UITCS-VAC07	Chat-Bot Development	32 hrs
8.	UITCS-VAC08	Blockchain and Cryptocurrency	32 hrs
9.	UITCS-VAC09	Augmented Reality	32 hrs
10.	UITCS-VAC10	Android Application Development	32 hrs

Agenda 6: To propose a course for Basket of University Open Elective.

After discussion committee propose the course “Emerging Technologies in Computer Science” TOCS-001 for the Basket of University Open Elective & forwarded to BOS for approval.

As there was no further point of discussion, the recommendations were prepared and upon the approval of Head-ARC, the recommendations were forwarded to the Chairperson-BOS. The meeting ended with vote of thanks to the chair.



Member



Member



Member Secretary



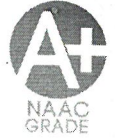
Chairperson



UTTARANCHAL UNIVERSITY

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

Premnagar-248007, Dehradun, Uttarakhand, INDIA



Department of Computer Science and Engineering

List of Members

S No.	Name & Designation	ARC Committee	Signature
1	Prof. (Dr.) S. D. Pandey, Dean -UIT	Chairperson	
2	Dr. Sunil Ghildiyal, HOD- CSE, UIT	Member Secretary	
3	Dr. Musheer Vaqur, Assistant Professor - CSE, UIT	Member	
4	Ms. Madhu Kirola, Assistant Professor- CSE, UIT	Member	