

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

FEEDBACK ANALYSIS REPORT

Criteria: Curriculum Design and Development

2020-2021



**INTERNAL QUALITY ASSURANCE
CELL**



SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Sathyabama Institute of Science and Technology deploys proactive measures to increase the quality of Education. Sathyabama values the feedback and suggestion of all its stakeholders in successful planning and execution of all academic initiatives. The stakeholders (Employers, Alumni, Faculty and Students) submit their feedback and suggestions in the link provided in the institution website. The respondents rate their level of agreement on a scale of five points viz. (1) Strongly disagree; (2) Disagree; (3) Neutral; (4) Agree; (5) Strongly Agree. These feedbacks are analysed on a regular basis, and follow-up actions are carried out at appropriate levels Academics. Due weightage is given to the qualitative statements and comments stated by the stakeholders in the feedback form.

The analysis of stakeholders' feedback for the academic year 2020-2021 is presented as follows:

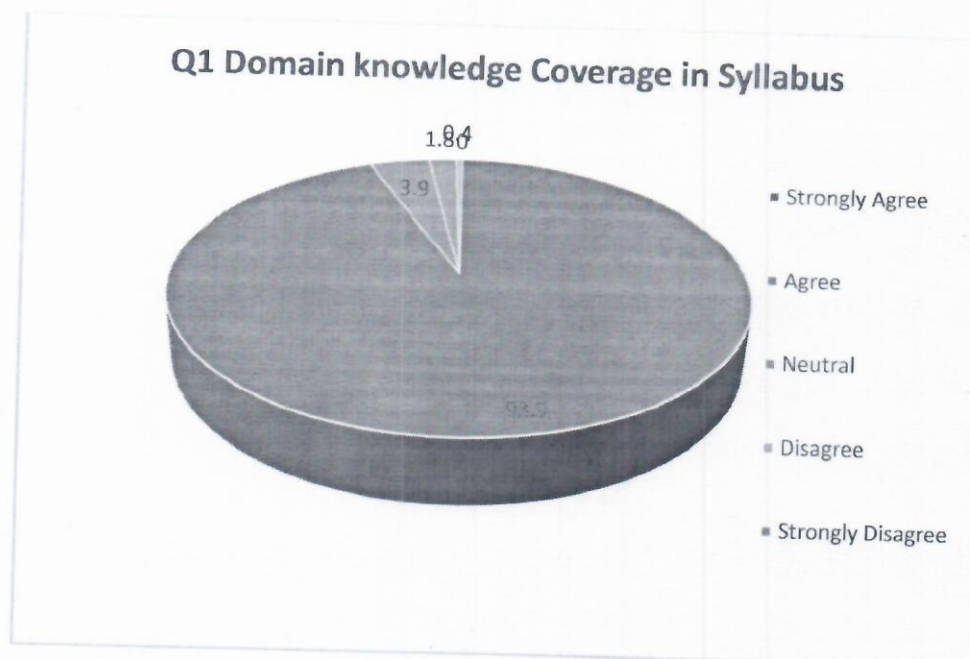
1. Analysis of Student Feedback

1.1. Questions in the Feedback Template

Q1	Does the curriculum have scope for acquiring strong knowledge and intellect on the specific domains
Q2	Does the curriculum have good mix of theory and laboratory aspects of courses
Q3	Has the Curriculum facilitated you in developing analytical and problem-solving skills
Q4	Rate the curriculum in making you proficient in understanding the learning outcomes and complying it.
Q5	Rate the scope of the syllabus in enhancing entrepreneurship skills/ lifelong learning/ human values and ethics.
Q6	The innovative pedagogical approach practiced by the faculty enhances the participative learning and experiential learning for you.
Q7	Do you think the institution follows a fair assessment and evaluation process of student grading?
Q8	Are you given opportunities to demonstrate your innovative skills, leadership skills, communication skills during your study?
Q9	Are you provided options to select elective courses/ CBCS/ Values Added Courses/ Certification courses etc of your interest/requirement?
Q10	Rate the opportunities the curriculum provides to excel in co-curricular and extracurricular activities.

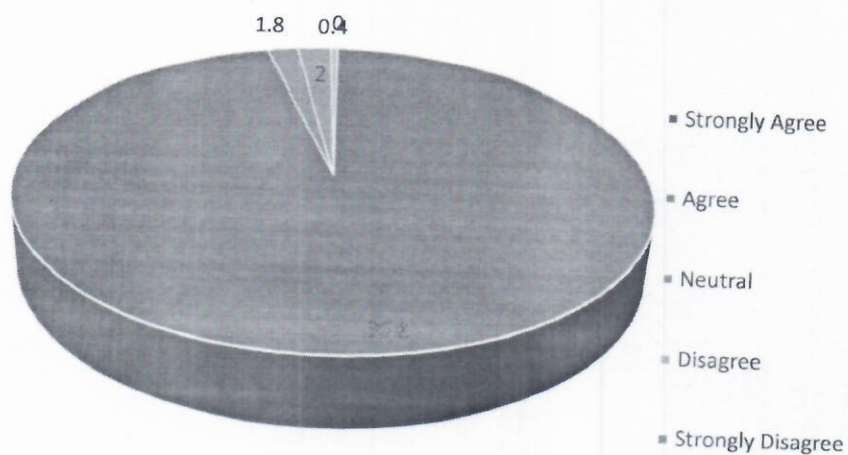
1.2. Analysis Report

Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1	Domain knowledge Coverage in Syllabus	93.9	3.9	1.8	0.4	0



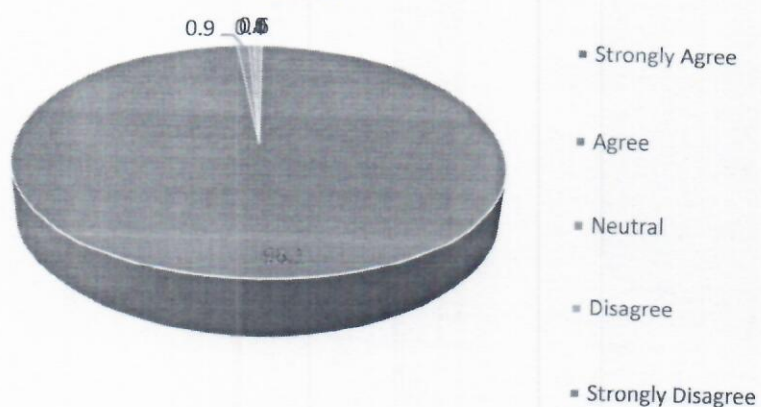
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
2	Mix of Theory and Practical Courses	95.8	1.8	2	0.4	0

Q2. Mix of Theory and Practical Courses

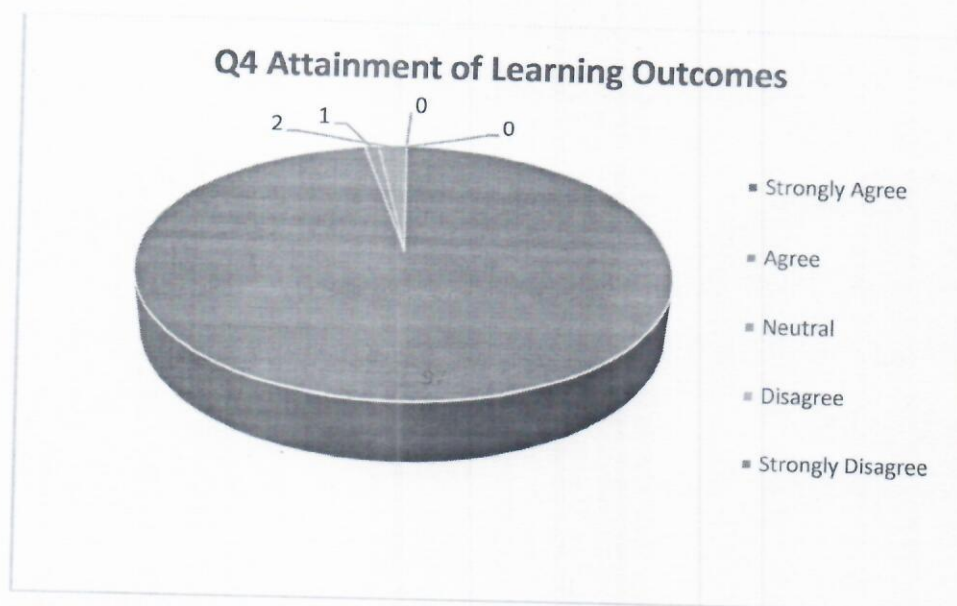


Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
3	Coverage of Problem Solving and Analytical Skills	98.1	0.9	0.4	0.6	0

Q3 Coverage of Problem Solving and Analytical Skills

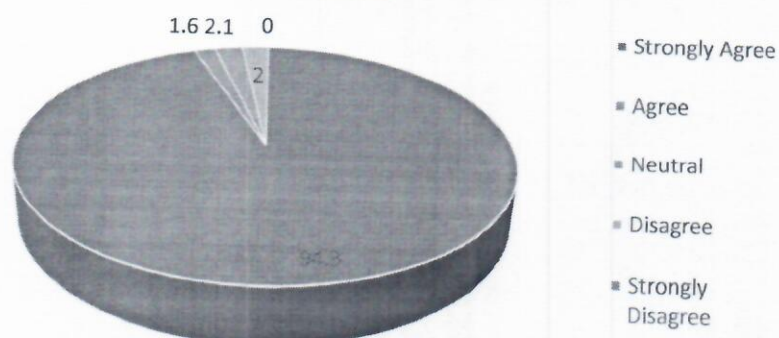


Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
4	Attainment of Learning Outcomes	97	1	2	0	0



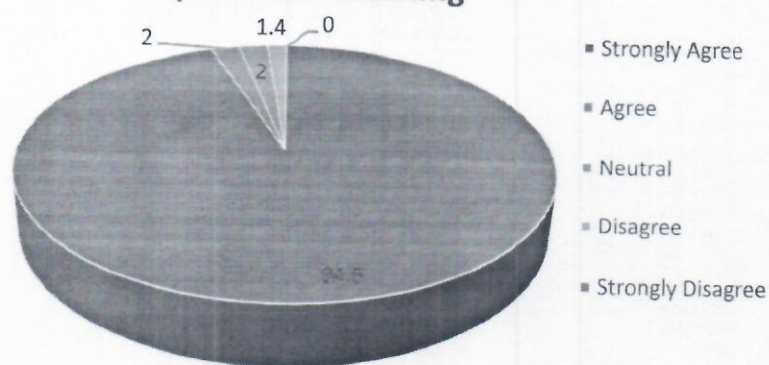
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
5	Coverage scope of Entrepreneurship Skills / Human Values and Ethics	94.3	1.6	2.1	2	0

Q5 Coverage of Problem Solving and Analytical Skills



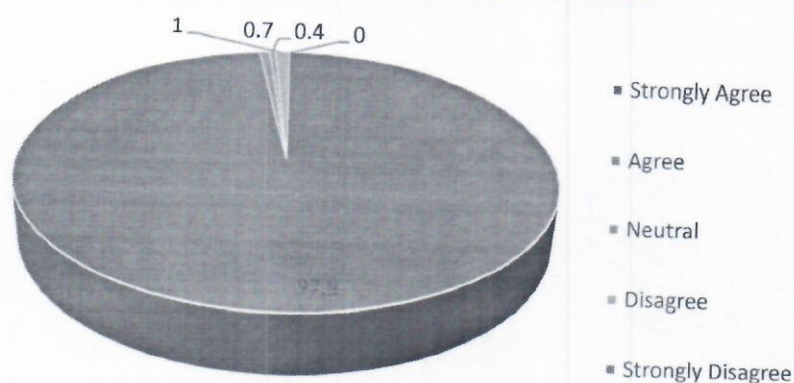
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
6	Scope of Participative Learning and Experiential Learning	94.6	2	2	1.4	0

Q6 Scope of Participative Learning and Experiential Learning



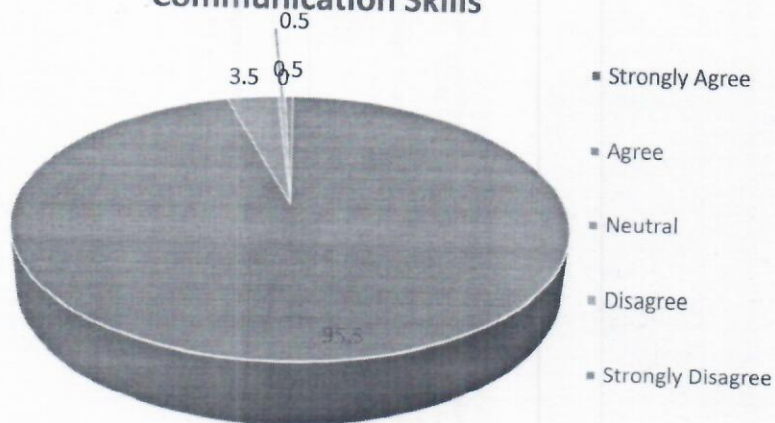
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
7	Assessment and Evaluation Process	97.9	0.7	0.4	1	0

Q7 Assessment and Evaluation Process



Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
8	Scope of Innovation / Leadership and Communication Skills	95.5	3.5	0	0.5	0.5

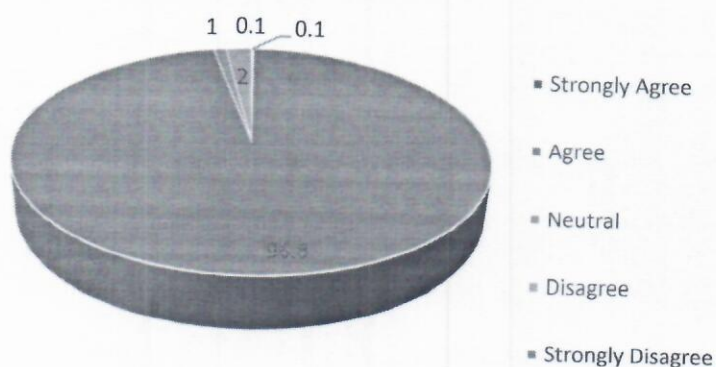
Q8 Scope of Innovation / Leadership and Communication Skills



Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree

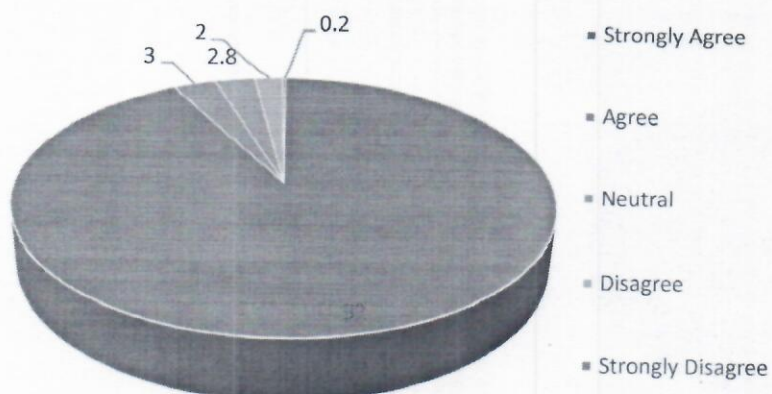
9	Choice of Course through CBCS/Value Added Courses/Electives	96.8	1	2	0.1	0.1
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Q9 Choice of Course through CBCS/Value Added Courses/Electives



Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
10	Opportunities for Co-curricular and Extra Curricular activities	92	3	2.8	2	0.2

Q10 Opportunities for Co-curricular and Extra Curricular activities



1.3. ANALYSIS

- The students are of the opinion that the syllabus gives in depth knowledge on the discipline and the syllabi covers the industrial requirement and emerging technologies. Few of the students felt that more courses covering the entrepreneurship could be made available. Overall, the syllabus was able to meet the expectations of the students.
- The students appreciated their efforts added towards consultancy and inhouse projects
- The students suggested that the publication of papers during projects would help them during higher studies



2. Analysis of Faculty Feedback

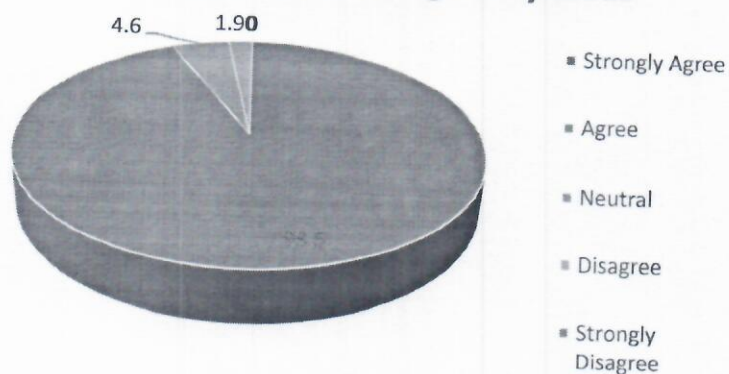
2.1. Questions in the Feedback Template

Q1	Rate your opinion on the relevancy/ sufficiency of the courses on latest technology trends.
Q2	Does the curriculum have good mix of theory and laboratory aspects of courses
Q3	Rate the liberty you are given to contribute your ideas in course revision, curriculum design, development and innovative pedagogical initiatives
Q4	Does the curriculum include value added courses/ soft skill training/ domain specific electives for enhancing constructive learning?
Q5	Rate your satisfaction on the process followed for the periodic curriculum revision by the institution
Q6	Your view on whether the experiences gained through Projects/ Internships/ certifications facilitated more Employability skills/ Communication skills/ confidence in students.
Q7	Does the curriculum have scope for acquiring strong knowledge and intellect on the specific domains through electives/CBCS/ Value Added Courses/ Certifications, etc
Q8	Do you think that the students are given opportunities to demonstrate their innovative skills, leadership skills and communication skills
Q9	Does the curriculum clearly state the learning outcomes and the process of assessment and evaluation?
Q10	Are the academic initiatives of the department contributing towards achieving the Mission and Vision of the institution

2.2. Analysis Report

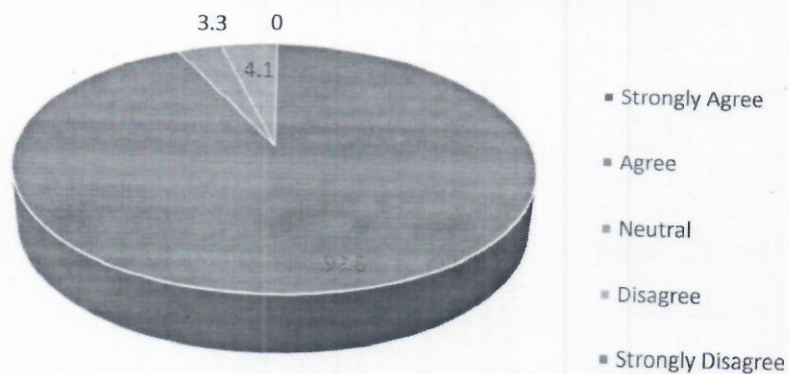
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1	Domain Knowledge coverage in Syllabus	93.5	4.6	1.9	0	0

Q1 Domain knowledge Coverage in Syllabus



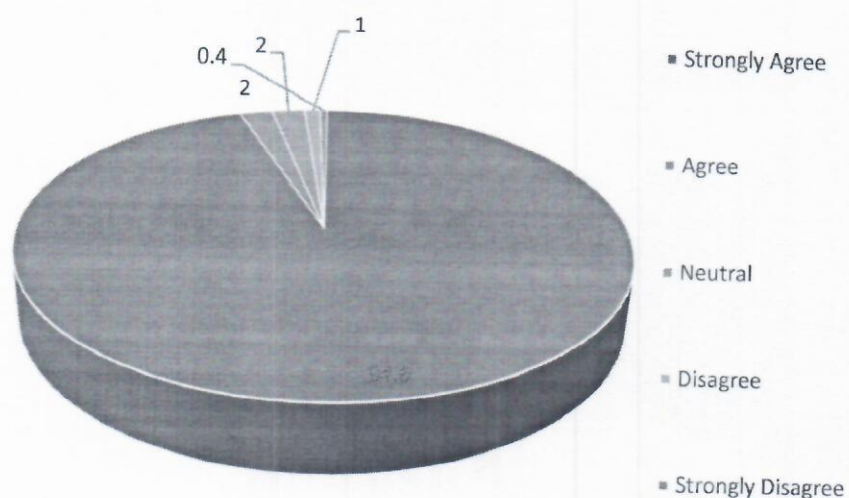
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
2	Mix of Theory and Practical Courses	92.6	3.3	4.1	0	0

Q2. Mix of Theory and Practical Courses



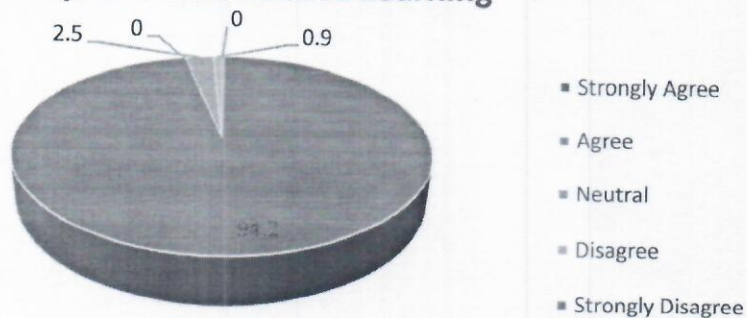
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
3	Inputs given for syllabus Revision	94.6	2	2	1	0.4

Q3 Inputs given for syllabus Revision



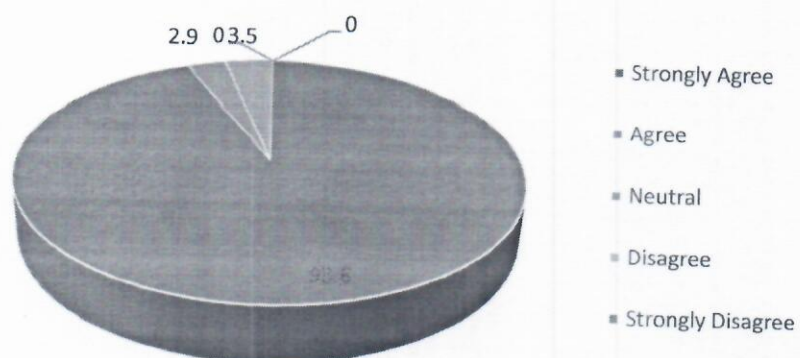
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
4	Scope for constructive Learning	94.2	2.4	2.5	0.9	0

Q4 Scope for constructive Learning



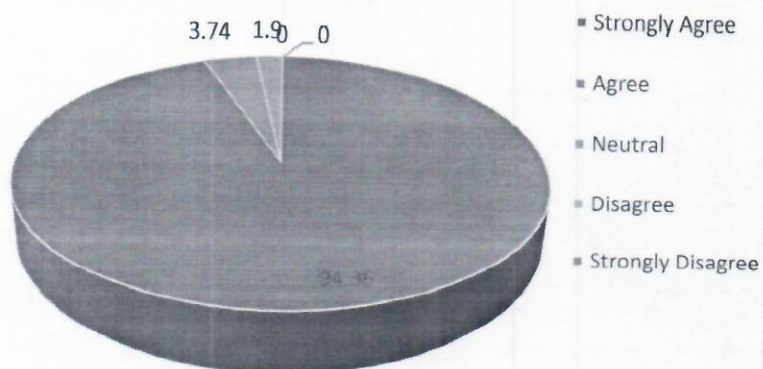
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
5	Frequency of Curriculum Revision	93.6	2.9	3.5	0	0

Q5 Frequency of Curriculum Revision



Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
6	Facilitation of Employability skills, Communication skills	94.36	3.74	1.9	0	0

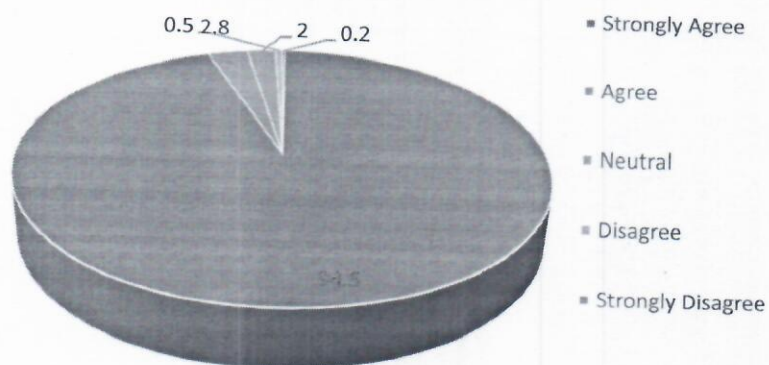
Q6 Facilitation of Employability skills, Communication skills



Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree

7	Choice of Course through CBCS/Value Added Courses/Electives	94.5	2.8	2	0.5	0
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Q7 Choice of Course through CBCS/Value Added Courses/Electives



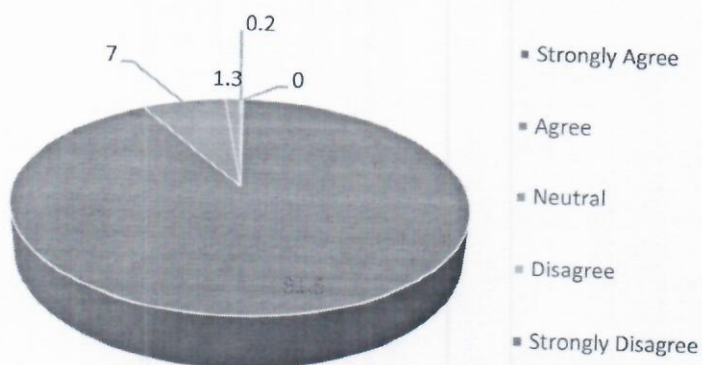
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
8	Scope of Innovation / Leadership and Communication Skills	98	2	0	0	0

Q8 Scope of Innovation / Leadership and Communication Skills



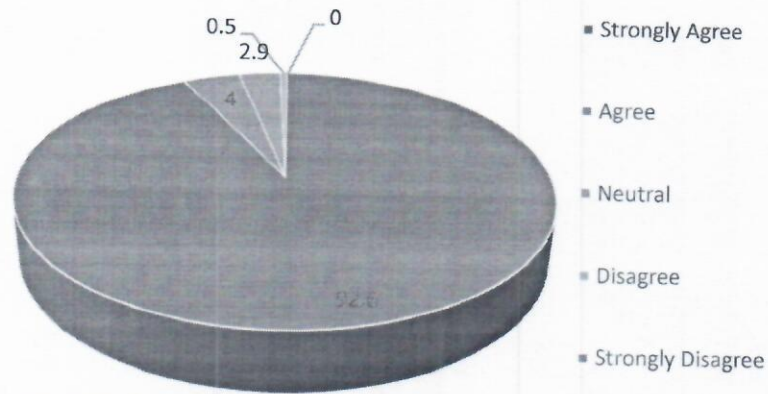
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
9	Attainment of Learning Outcomes	91.5	7	1.3	0.2	0

Q9 Attainment of Learning Outcomes



Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
10	Contribution towards Mission and vision of Institution	92.6	4	2.9	0.5	0

Q10 Contribution towards Mission and vision of Institution



2.3 ANALYSIS

- Faculty appreciated the initiatives taken towards inculcating product building experiences through professional training.
- Faculty suggested the importance of including courses on block chain, machine learning, Augmented Reality, Virtual Reality, Robotics, etc.
- Some Faculty suggested the inclusion of courses with hands on lab experiences would enhance the learning of students
- Faculty suggested the use of a score based quantitative and qualitative assessment of their performance and suggested a cash reward would be motivating.



3. Analysis of Alumni Feedback

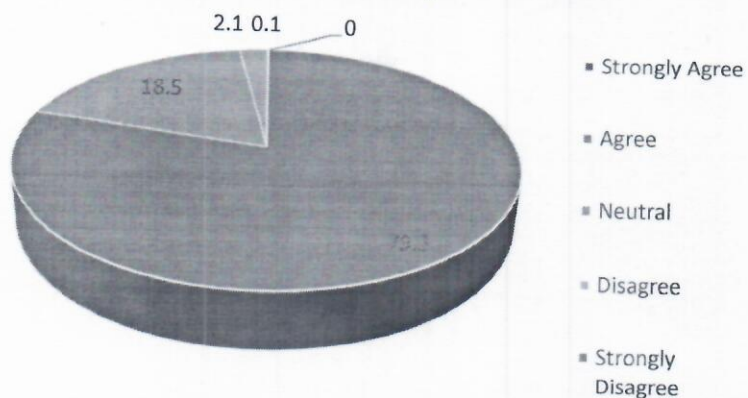
3.1. Questions in the Feedback Template

Q1	Rate your opinion on the relevancy/ sufficiency of the courses meeting the industry requirements?
Q2	Rate whether the experiences gained through projects/ internships/ certifications facilitated more employability skills/ communication skills/ confidence in you.
Q3	How effective is the Curriculum in developing analytical and problem-solving skills
Q4	Does the curriculum include value added courses/ soft skill training/ domain specific electives for enhancing constructive learning.
Q5	Rate the scope of the syllabus in enhancing entrepreneurship skills/ lifelong learning/ human values and ethics.
Q6	Rate the scope of the curriculum in developing the following attributes - creativity, leadership, innovation, self-motivation, workplace ethics, social responsibility
Q7	The curriculum facilitates in acquiring the learning outcomes of the programme of study.
Q8	Your opinion on the various platforms and opportunities facilitated by the Institution to achieve your goals.
Q9	Is the curriculum facilitating enhancement of practical competencies as needed by the industry?
Q10	Rate your participation in the various academic initiatives of the Institution.

3.2 Analysis Report

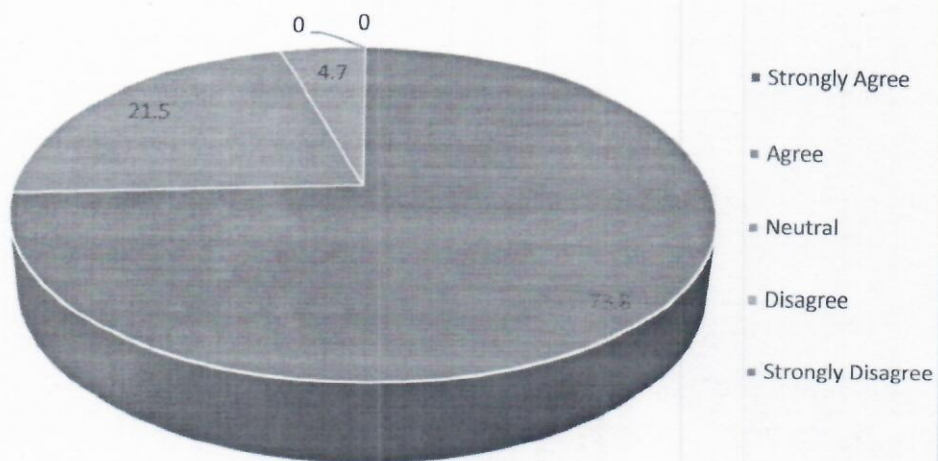
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1	Syllabus meets Industry Standards	79.3	18.5	2.1	0.1	0

Q1 Syllabus meets Industry Standards

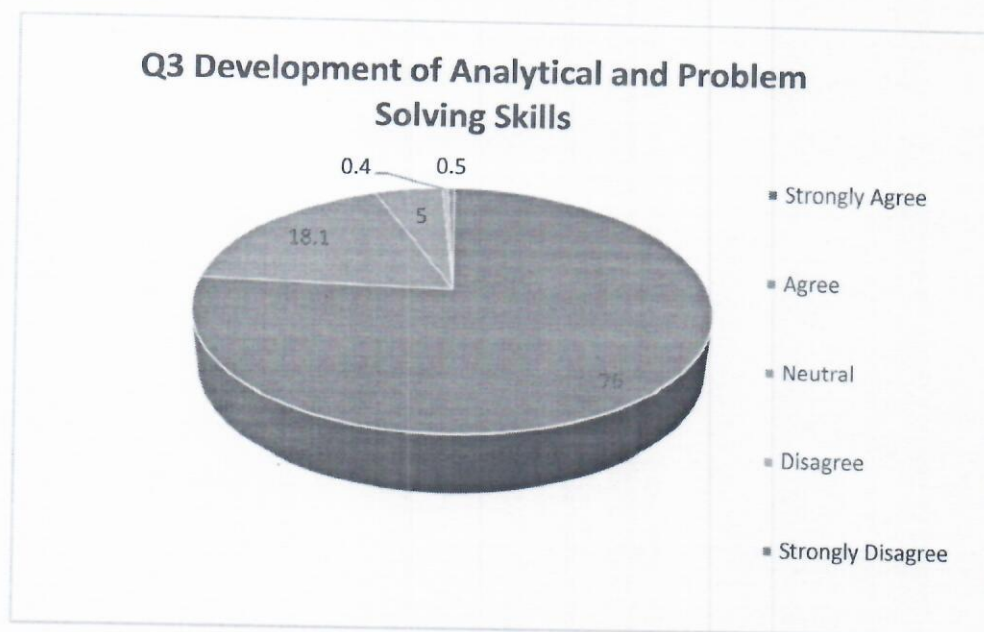


Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
2	Scope of Employability and Communication Skill Development	73.8	21.5	4.7	0	0

Q2. Scope of Employability and Communication Skill Development

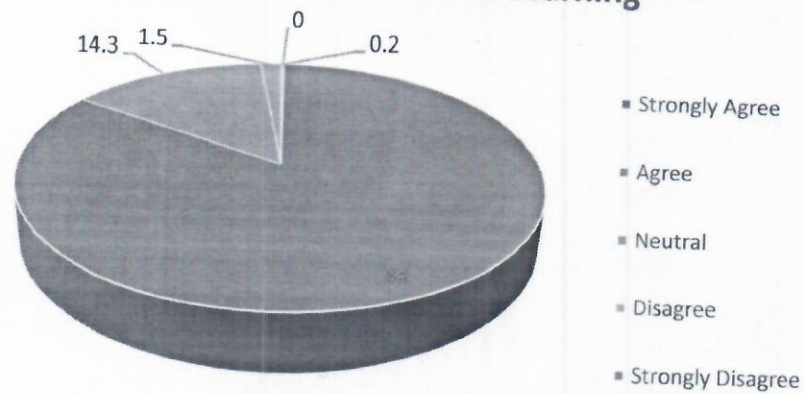


Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
3	Development of Analytical and Problem Solving Skills	76	18.1	5	0.4	0.5



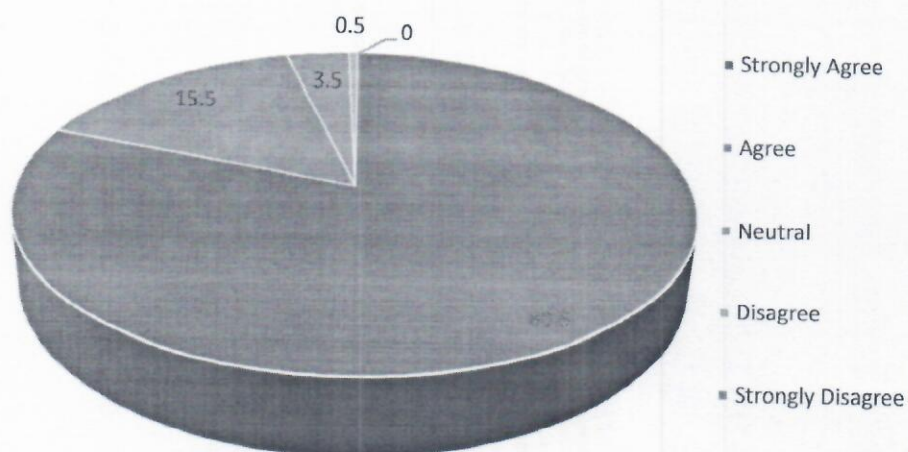
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
4	Scope of Constructive Learning	84	14.3	1.5	0.2	0

Q4 Scope of Constructive Learning



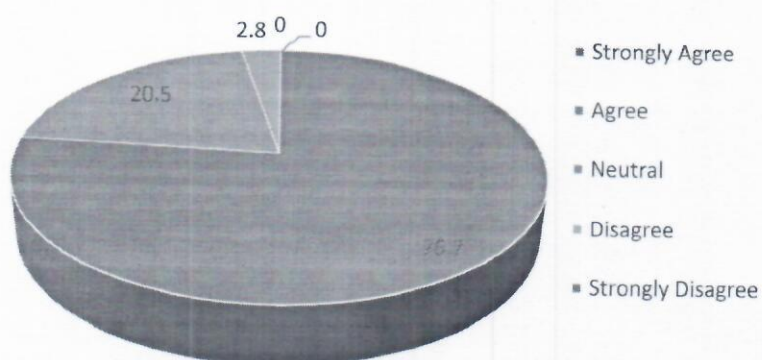
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
5	Coverage scope of Entrepreneurship Skills / Human Values and Ethics	80.5	15.5	3.5	0.5	0

Q5 Coverage scope of Entrepreneurship Skills / Human Values and Ethics



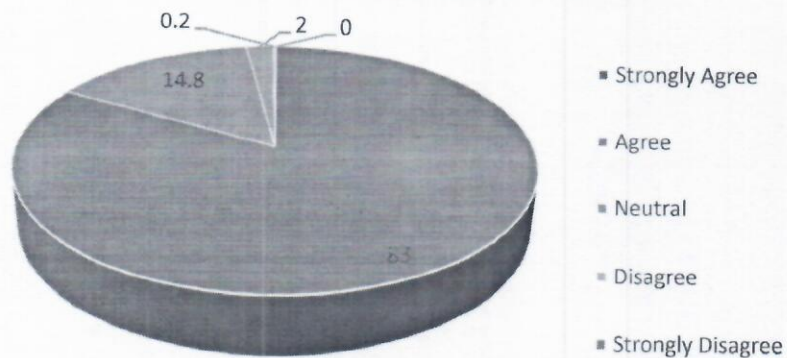
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
6	Scope for Holistic Development	76.7	20.5	2.8	0	0

Q6 Scope for Holistic Development



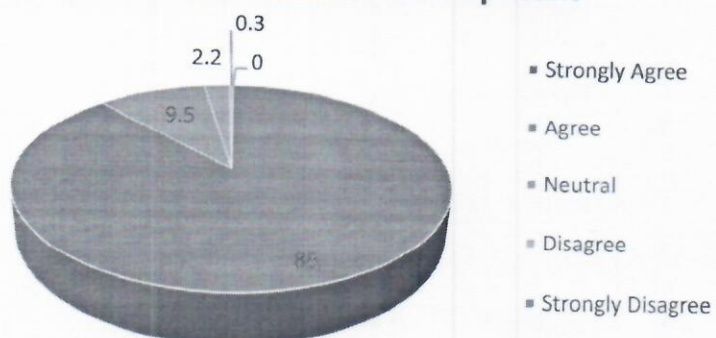
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
7	Attainment of Learning Outcomes	83	14.8	2	0.2	0

Q7 Assessment and Evaluation Process



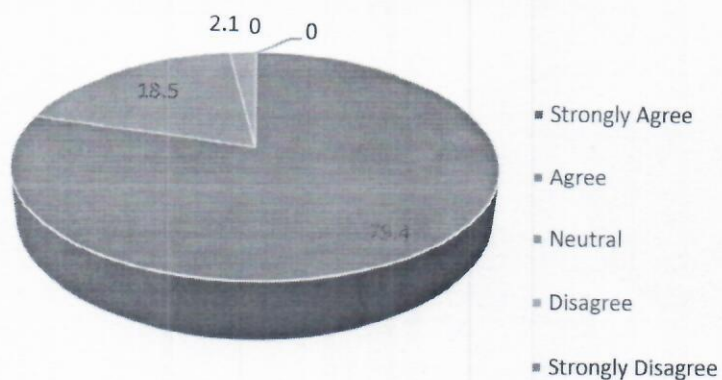
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
8	Opportunities for overall Development	88	9.5	2.2	0.3	0

Q8 Opportunities for overall Development

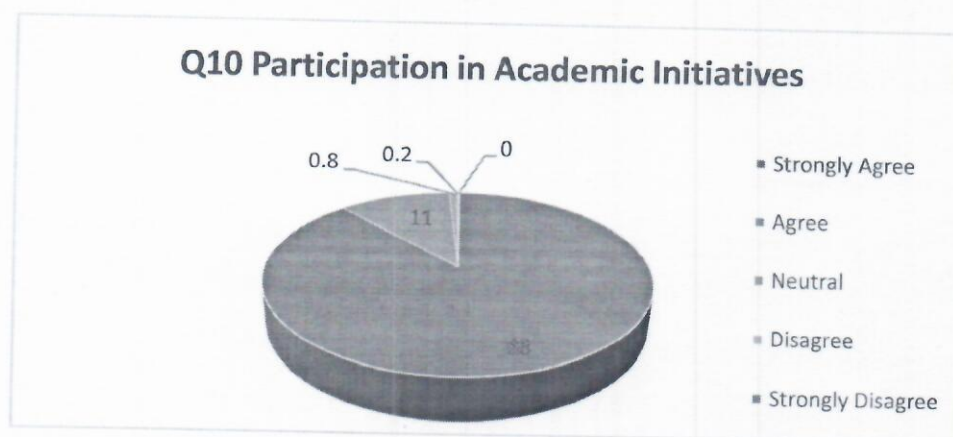


Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
9	Enhancement of Practical competencies	79.4	18.5	2.1	0	0

Q9 Enhancement of Practical competencies



Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
10	Participation in Academic Initiatives	88	11	0.8	0.2	0



3.3 ANALYSIS

- Alumni suggested on more training on latest technologies like block chain, machine learning, robotics, etc
- Suggestion on inclusion of Community based internships to add value to the education
- Design thinking course delivery methods were reviewed and suggested to include more case study based training.
- Introduction of Drone technologies and Robotics were suggested by alumni



4. Analysis of Employer Feedback

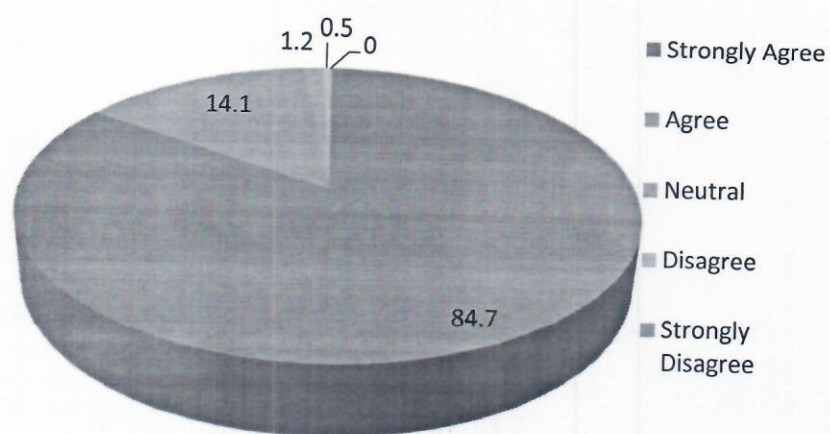
4.1. Questions in the Feedback Template

Q1	Rate your opinion on the relevancy/ sufficiency of the courses meeting the industry requirements?
Q2	Rate the applicability of the tools/activities/case studies presented in the curriculum facilitating more employability skills among graduates.
Q3	How effective is the Curriculum in developing analytical and problem-solving skills
Q4	Does the curriculum include value added courses/ soft skill training/ domain specific electives for enhancing constructive learning.
Q5	Rate the scope of the syllabus in enhancing entrepreneurship skills/ lifelong learning/ human values and ethics.
Q6	Curriculum reflects current trends and practices in the respective disciplines.
Q7	Does the curriculum effectively cover topics on fundamentals and latest technology?
Q8	The academic initiatives of the institution contributes towards achieving the Mission and Vision of the institution
Q9	Rate the proficiency of our graduates to adapt to industry requirements
Q10	The curriculum facilitates an overall holistic development of the student?

4.2 Analysis Report

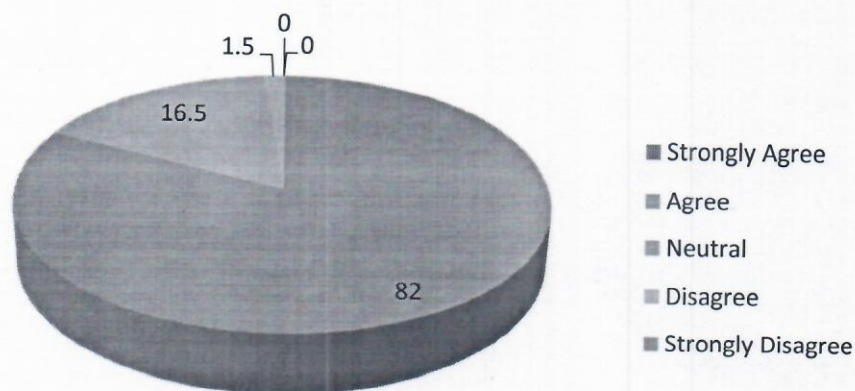
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1	Curriculum meets Industry Standards	84.7	14.1	1.2	0.5	0

Q1 Curriculum meets Industry Standards

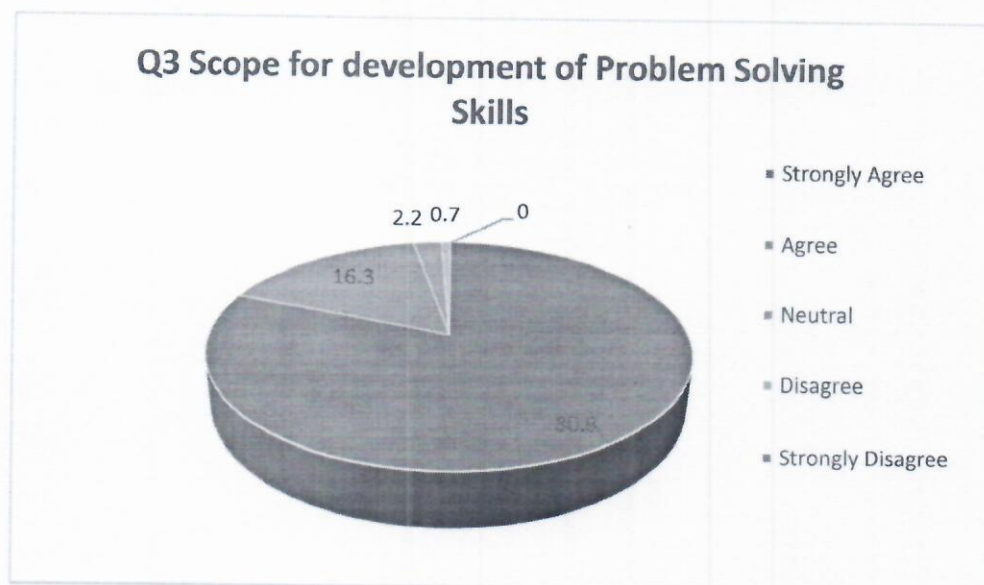


Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
2	Facilitation of tools for Employability	82	16.5	1.5	0	0

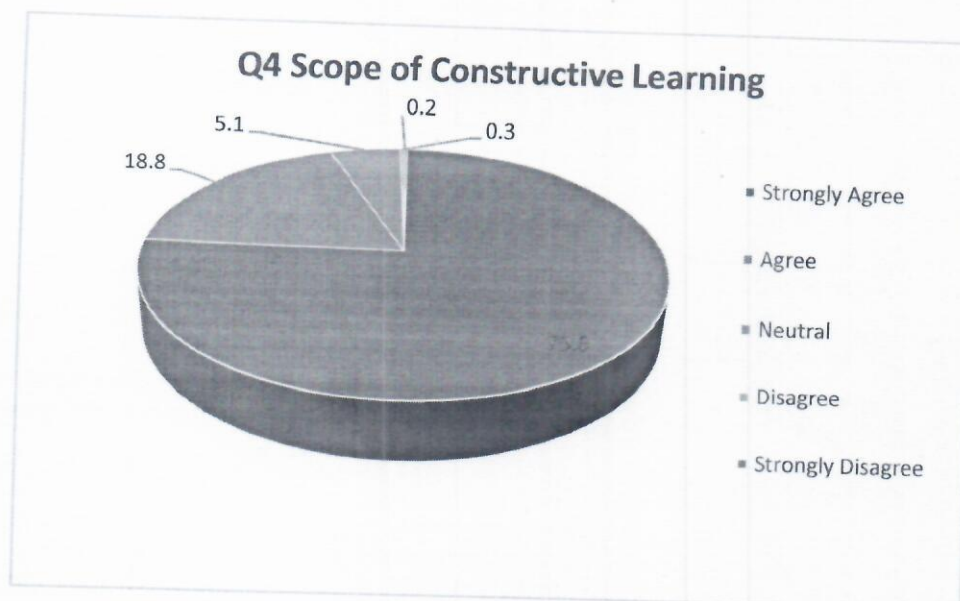
Q2 Facilitation of tools for Employability



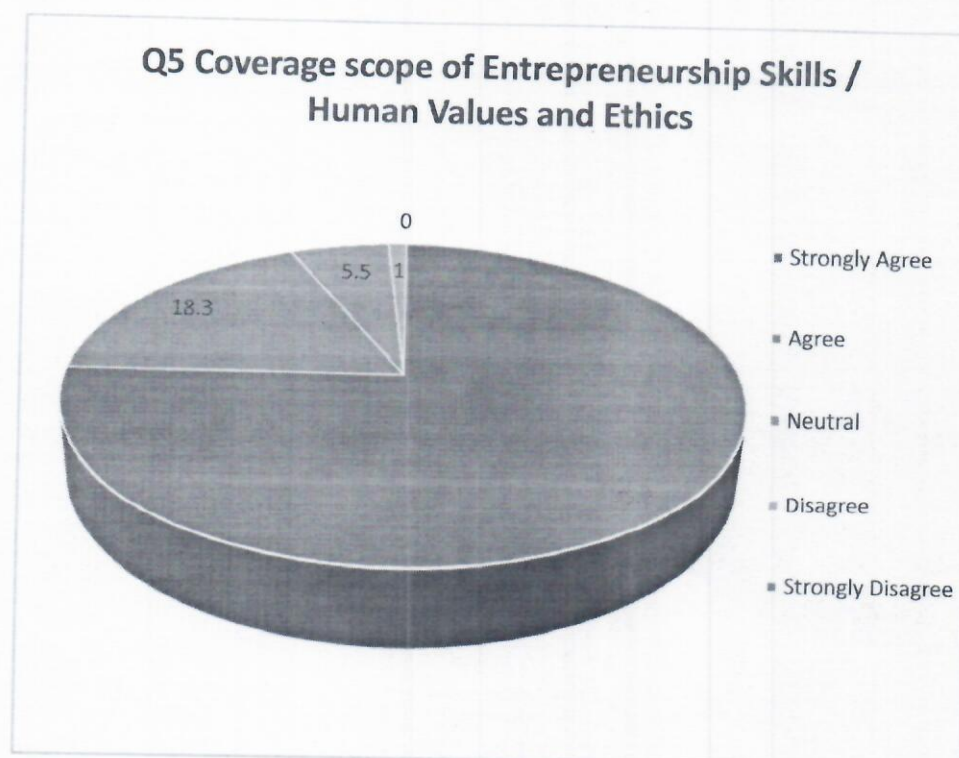
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
3	Scope for development of Problem Solving Skills	80.8	16.3	2.2	0.7	0



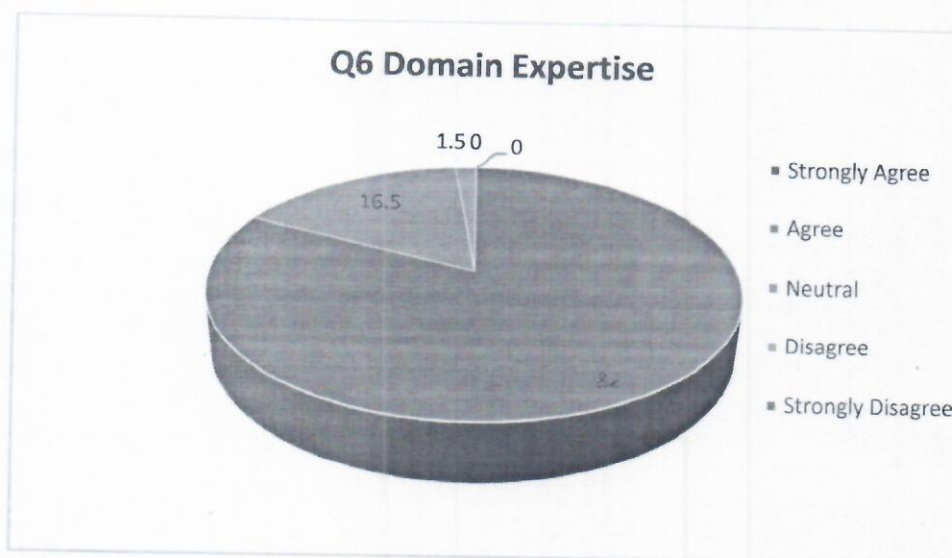
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
4	Scope for Constructive Learning	75.6	18.8	5.1	0.3	0.2



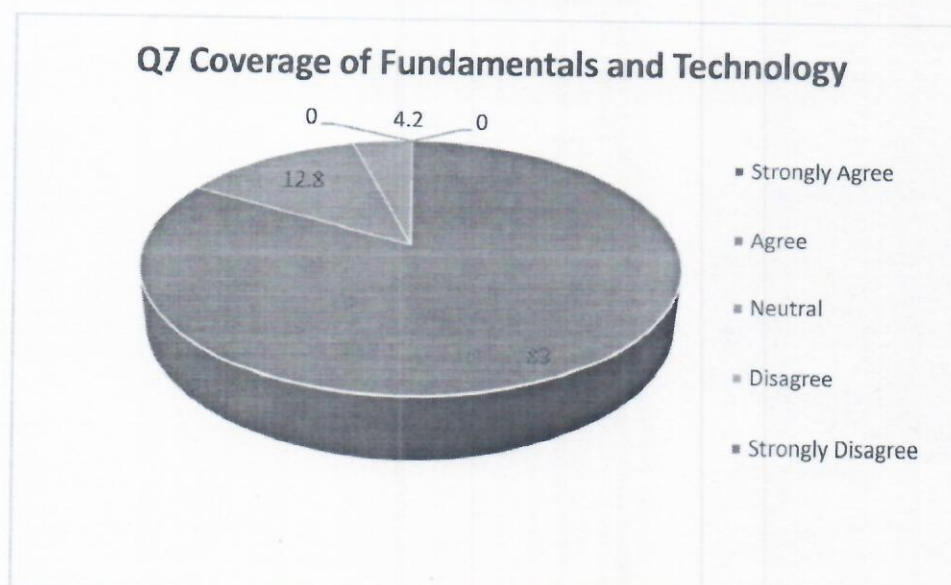
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
5	Coverage scope of Entrepreneurship Skills / Human Values and Ethics	75.2	18.3	5.5	1	0



Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
6	Domain Expertise	82	16.5	1.5	0	0

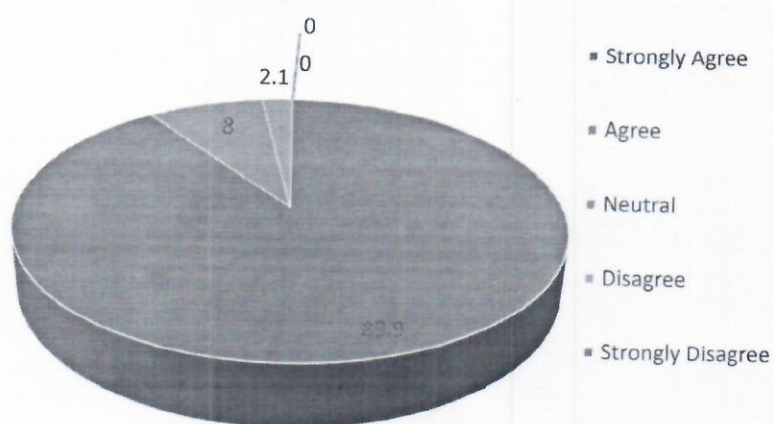


Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
7	Coverage of Fundamentals and Technology	83	12.8	4.2	0	0



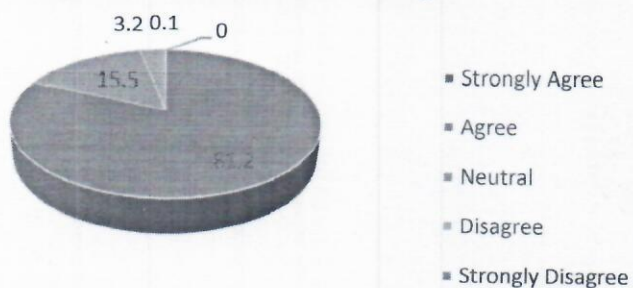
Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
8	Contribution to the Vision and Mission of Institution	89.9	8	2.1	0	0

Q8 Contribution to the Vision and Mission of Institution

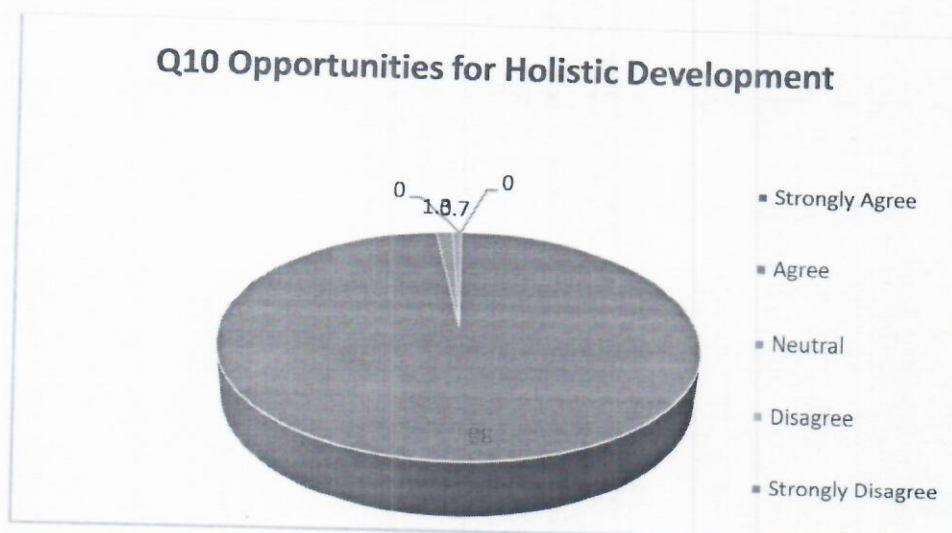


Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
9	Industrial competitive Learning	81.2	15.5	3.2	0.1	0

Q9 Industrial competitive Learning



Sno	Parameter related to Curricula/Syllabi	Percentage of Feedback on the Parameter				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
10	Opportunities for Holistic Development	98	1.3	0.7	0	0



4.3. ANALYSIS

- Experts forecasted the need of specialization programmes on current trends such as AI, Data Sciences for better placement prospects.
- Employer suggested the students should be extensively trained on design thinking, critical thinking.
- Entrepreneurship and skill development courses have to be included
- Valued added courses was well appreciated by the employers.

