ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Affiliated to VTU, Belagavi. Approved by AICTE & Recognized by Government of Karnataka)
Shobhavana Campus, Mijar - 574225, Moodabidire, Dakshina Kannada, Karnataka, India

Department of Computer Science & Engineering

Report on

Feedback Analysis Report on Curriculum

[2023-24]

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Quality vs. quantity has long been a debate topic. Students, as crucial stakeholders, are concerned about the predicted consequences. As the technical education scenario shifts from an output-based to an outcome-based one, quality in such procedures must be addressed. We must guarantee that the result parameters are mapped in relation to the objectives and that the programmes are aligned with national policies in light of the global trend. Stakeholder satisfaction, including students, professors, alumni, and employers, has always been a struggle. Because quality is a metric for success, there is always room for improvement in every system.

Alva's Institute of Engineering and Technology, Mijar, being unique from its very inception and foundation, has emerged as a benchmark of excellence and innovation for the world of education. With quality sustenance as its focus, the IQAC of the college has developed the feedback mechanism commencing with obtaining feedback from the various stakeholders through a structured rating based feedback form. The college draws feedback from students, teachers, alumnae and employersfrom respective department for continuous improvement in curriculum development and enrichment.

Feedback is gathered from all stakeholders in our Institute through an offline approach. Following the collection of data from stakeholders, the response sheet is prepared and analysed using present parameters. Departments take necessary action based on the report. The department sends a copy of the report, together with the action performed, to the Internal Quality Assurance Cell (IQAC) for any additional action that is necessary.

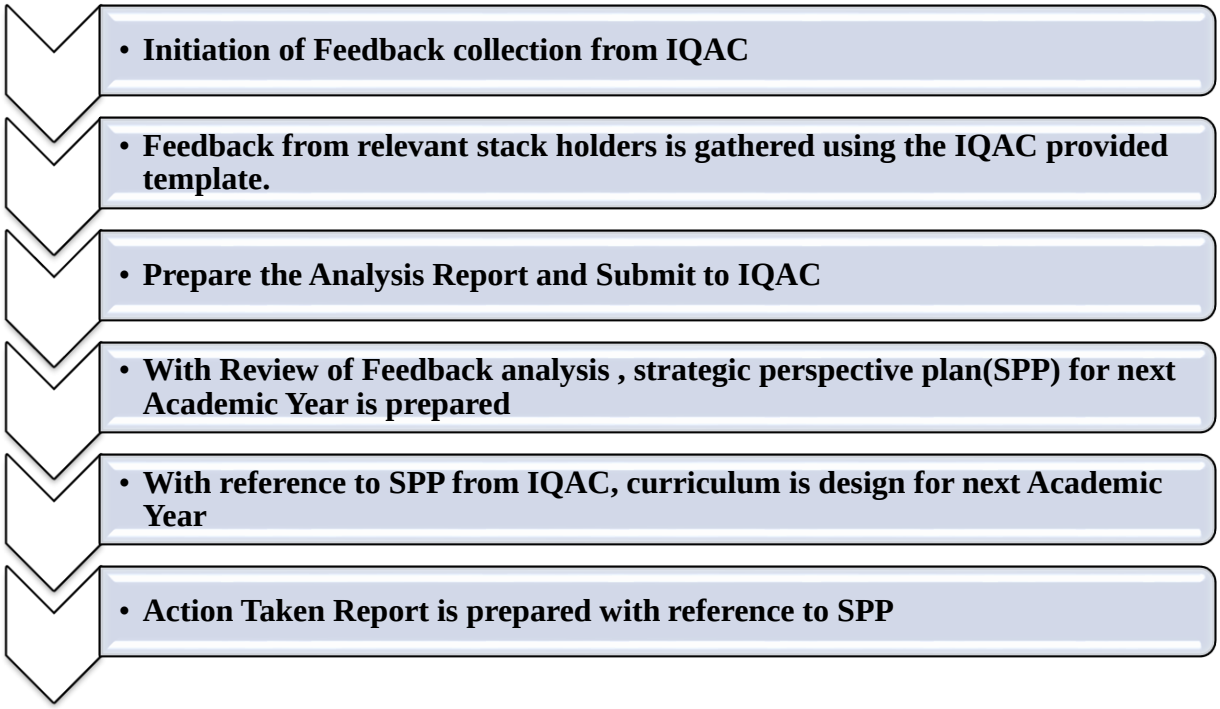


Figure 1: Feedback Analysis Process

The primary goal of this feedback is to guarantee that every student has access to competent and high-quality instruction, which leads to vigorous academic, social, and personal development. The IQAC analyses the activities as well as other quality efforts on a regular basis. We must consistently adopt such Quality Initiatives into our processes and adhere to them in letter and spirit in order to satisfy stakeholders.

1.0 Student Feedback Form

The IQAC creates a feedback form, which is distributed to all departments for response collection w.r.t curriculum. Following is the sample feedback form of students.

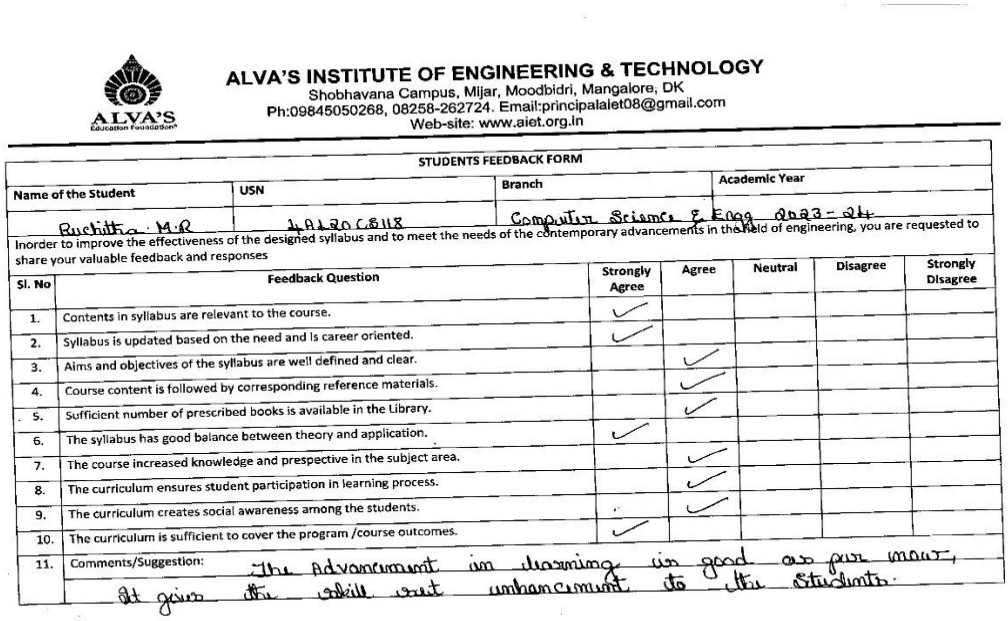
1.1 Student's Feedback form on curriculum

STUDENTS FEEDBACK FORM			
Name of the Student	**USN**	**Branch**	**Academic Year**

Inorder to improve the effectiveness of the designed syllabus and to meet the needs of the contemporary advancements in the field of engineering, you are requested to share your valuable

Sl. No	**Feedback Question**	**Strongly Agree**	**Agree**	**Neutral**	**Disagree**	**Strongly Disagree**
1.	Contents in syllabus are relevant to the course.					
2.	Syllabus is updated based on the need and is career oriented.					
3.	Aims and objectives of the syllabus are well defined and clear.					
4.	Course content is followed by corresponding reference materials.					
5.	Sufficient number of prescribed books is available in the Library.					
6.	The syllabus has good balance between theory and application.					
7.	The course increased knowledge and perspective in the subject area.					
8.	The curriculum ensures student participation in learning process.					
9.	The curriculum creates social awareness among the students.					
10.	The curriculum is sufficient to cover the program /course outcomes.					
11.	Comments/Suggestion:					

Figure 1.1: Student Feedback Form



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STUDENTS FEEDBACK FORM

Name of the Student	USN	Branch	Academic Year
Ruchitha. M.R	4AL20CS118	Computer Science & Engg	2023-24

Inorder to improve the effectiveness of the designed syllabus and to meet the needs of the contemporary advancements in the field of engineering, you are requested to share your valuable feedback and responses

Sl. No	Feedback Question	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1.	Contents in syllabus are relevant to the course.	✓				
2.	Syllabus is updated based on the need and is career oriented.	✓				
3.	Aims and objectives of the syllabus are well defined and clear.		✓			
4.	Course content is followed by corresponding reference materials.		✓			
5.	Sufficient number of prescribed books is available in the Library.		✓			
6.	The syllabus has good balance between theory and application.	✓				
7.	The course increased knowledge and prespective in the subject area.		✓			
8.	The curriculum ensures student participation in learning process.		✓			
9.	The curriculum creates social awareness among the students.		✓			
10.	The curriculum is sufficient to cover the program /course outcomes.	✓				
11.	Comments/Suggestion: The Advancement in learning is good as per now, It gives the skill set enhancement to the students.					

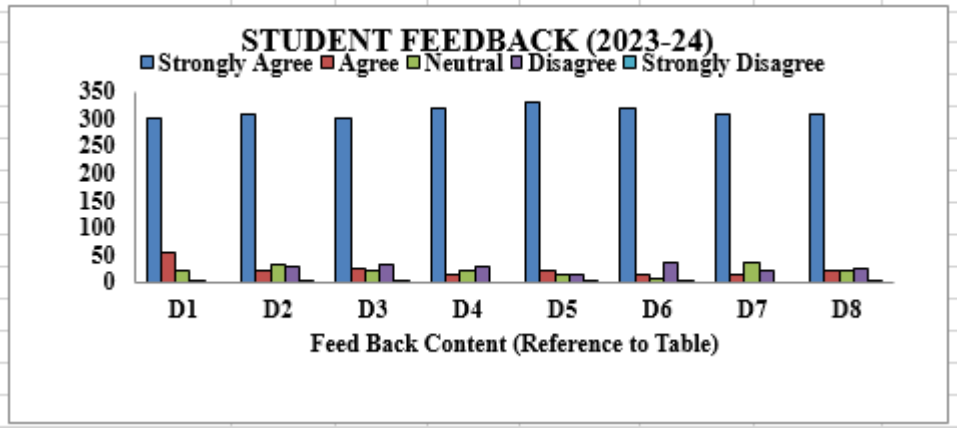
Figure 1.2 : Shows the sample copy of student feedback response

1.2 Feedback Analysis report

An attempt was made to solicit opinions from all college students during AY 2023-24. A feedback form had been produced for this purpose, and comments from the students had been solicited. A total of 380 responses have been gathered from students on the Syllabus. Various industry oriented certification course and industry visit have implemented in department to satisfy the needs of students. Letter has been communicated to university requesting them to include Human values in the curriculum. Various sorts of graphs have been utilised to effectively portray the facts.

93.6% percent of students judged the curriculum to be very helpful in improving teamwork, developing analytical abilities, and encouraging constructive learning, while 6.4% of students anticipate curriculum improvement and speedy resolution.

	STUDENT FEEDBACK 2023-24							positive	Negative
Sl. No	Feedback Question	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total Response	A+B+C / total	D+E/ total
		A	B	C	D	E			
D1	Contents in syllabus are relevant to the course.	303	53	21	3	0	380	99.2%	0.8%
D2	Syllabus is updated based on the need and is career oriented.	307	12	32	28	1	380	92.4%	7.6%
D3	Aims and objectives of the syllabus are well defined and clear	301	26	20	31	2	380	91.3%	8.7%
D4	Course content is followed by corresponding reference materials.	320	12	20	28	0	380	92.6%	7.4%
D5	Sufficient number of prescribed books is available in the Library.	332	22	12	13	1	380	96.3%	3.7%
D6	The syllabus has good balance between theory and application.	320	15	7	35	3	380	90.0%	10.0%
D7	The course increased knowledge and prespective in the subject area.	310	12	36	22	0	380	94.2%	5.8%
D8	The curriculum ensures student participation in learning process.	310	22	20	26	2	380	92.6%	7.4%
D9	The curriculum creates social awareness among the students.	305	27	20	25	3	380	92.6%	7.4%
D10	The curriculum is sufficient to cover the program /course outcomes.	321	22	17	14	6	380	94.7%	5.3%
						Average percentage		93.6%	6.4%



Comments :

- Coding Assignments are to be given.
- Industry visit can be conducted.
- Skill development activities need to be conducted.
- Certification course on industry oriented tools need to be implemented.

2. Faculty Feedback form

The IQAC creates a faculty feedback form, which is distributed to all departments faculty members for response collection**.** Following is the faculty feedback form.

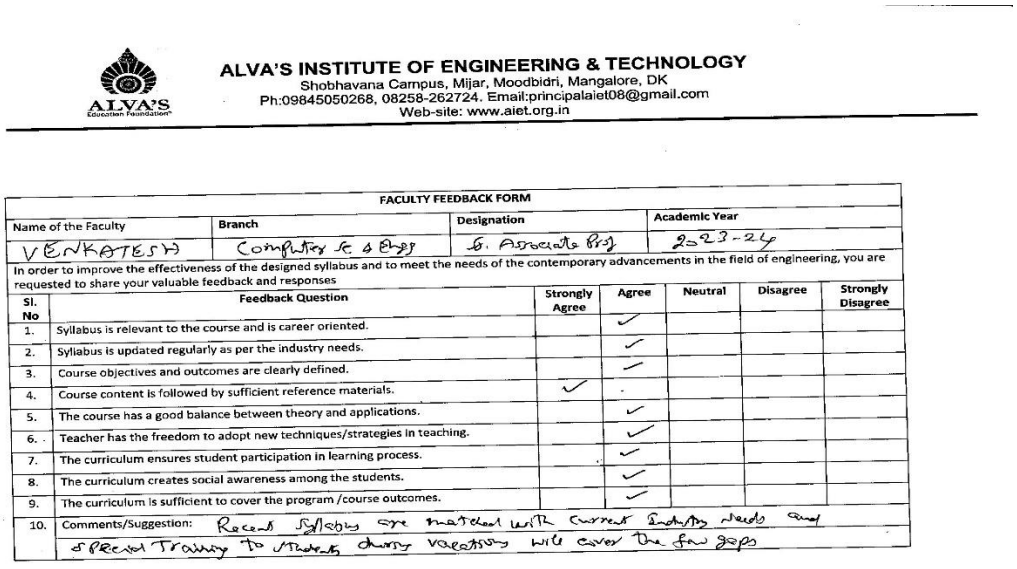
2.1 Faculty Feedback form on curriculum

FACULTY FEEDBACK FORM			
Name of the Faculty	**Branch**	**Designation**	**Academic Year**

In order to improve the effectiveness of the designed syllabus and to meet the needs of the contemporary advancements in the field of engineering, you are requested to share your valuable feedback and responses						
Sl. No	**Feedback Question**	**Strongly Agree**	**Agree**	**Neutral**	**Disagree**	**Strongly Disagree**
1.	Syllabus is relevant to the course and is career					
2.	Syllabus is updated regularly as per the industry needs.					
3.	Course objectives and outcomes are clearly defined.					
4.	Course content is followed by sufficient reference materials.					
5.	The course has a good balance between theory and applications.					
6.	Teacher has the freedom to adopt new techniques/strategies in teaching.					
7.	The curriculum ensures student participation in learning process.					
8.	The curriculum creates social awareness among the students.					
9.	The curriculum is sufficient to cover the program /course outcomes.					
10	Comments/Suggestion:					

Figure 2.1 : Shows the Faculty Feedback Form

Following figure 2.2 shows the sample copy of faculty feedback collected on curriculum.



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FACULTY FEEDBACK FORM

Name of the Faculty	Branch	Designation	Academic Year
VENKATESH	Computer Sc & Engg	Sr. Associate Prof	2023-24

In order to improve the effectiveness of the designed syllabus and to meet the needs of the contemporary advancements in the field of engineering, you are requested to share your valuable feedback and responses

Sl. No	Feedback Question	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1.	Syllabus is relevant to the course and is career oriented.		✓			
2.	Syllabus is updated regularly as per the industry needs.		✓			
3.	Course objectives and outcomes are clearly defined.		✓			
4.	Course content is followed by sufficient reference materials.	✓				
5.	The course has a good balance between theory and applications.		✓			
6.	Teacher has the freedom to adopt new techniques/strategies in teaching.		✓			
7.	The curriculum ensures student participation in learning process.		✓			
8.	The curriculum creates social awareness among the students.		✓			
9.	The curriculum is sufficient to cover the program /course outcomes.		✓			
10.	Comments/Suggestion: Recent Syllabus are matched with Current Industry needs and Special Training to Students during Vacations will cover the few gaps					

Figure 2.2: Shows the sample copy of Feedback response

2.1 Feedback Analysis Report

An effort was made to receive feedback from all department faculties of the college during 2023-24. For this purpose, feedback form had been prepared and taken feedback. As many as 30 responses have been collected from the faculties on curriculum. Making students to participate in learning process various coding assignments, self study topics given seminars have been implemented. Many students have taken certification course and NPTEL courses. For the effective presentation of the data, various types of graphs have been used.

92% faculties found curriculum to be very effective in enhancing team work, developing analytical skills and constructive learning and 8% faculties are expecting improvement in curriculum and resolving it timely

FACULTY FEEDBACK 2023-24

Sl. No	Feedback Question	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total	A+B+C/ total	C+D/ TOTAL
`		A	B	C	D	E			
D1.	Syllabus is relevant to the course and is career oriented.	15	11	3	1	0	30	97%	3%
D2	Syllabus is updated regularly as per the industry needs.	21	3	2	4	0	30	87%	13%
D3	Course objectives and outcomes are clearly defined.	21	5	2	2	0	30	93%	7%
D4	Course content is followed by sufficient reference materials.	22	3	3	2	0	30	93%	7%
D5	The course has a good balance between theory and applications.	15	10	3	2	0	30	93%	7%
D6	Teacher has the freedom to adopt new techniques/strategies in teaching.	15	6	6	3	0	30	90%	10%
D7	The curriculum ensures student participation in learning process.	15	10	4	1	0	30	97%	3%
D8	The curriculum creates social awareness among the students.	18	5	3	4	0	30	87%	13%
D9	The curriculum is sufficient to cover the program /course outcomes	17	8	3	2	0	30	93%	7%
						Average		92%	8%

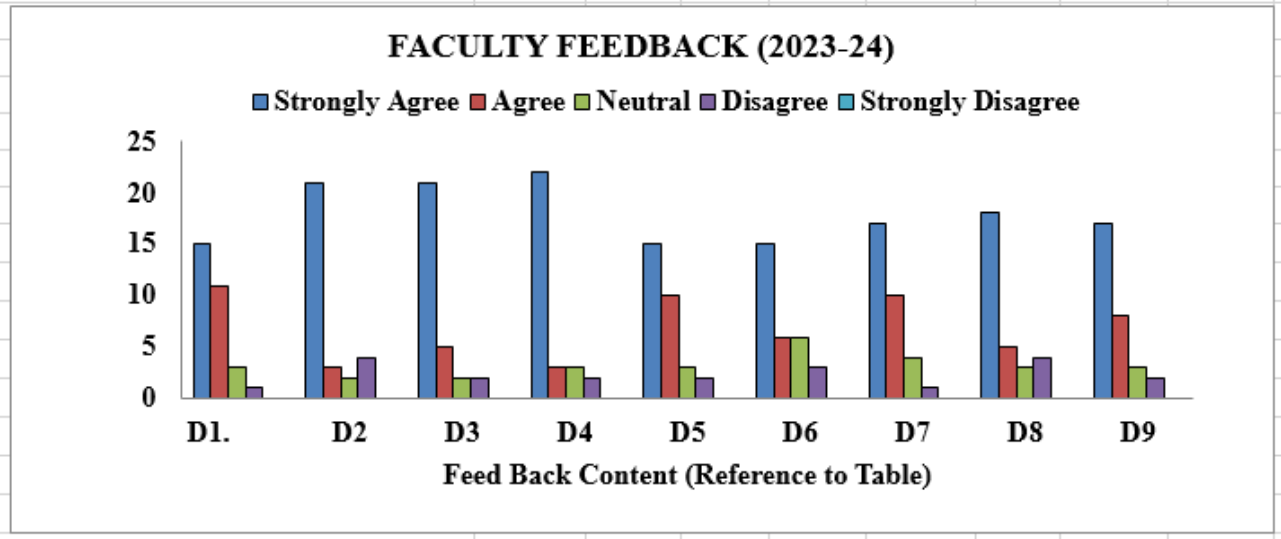


Figure 2.2 : Shows the sample copy of Feedback response

Comments

- More Workshops need to conducted
- Soft Skill development activities need to be conducted according to the industry needs.
- Self-study topics and coding assignments need to be given.
- Include Mini projects at the 2nd year syllabus itself to make students to get coding knowledge.
- NPTEL certification and recent certification courses on recent technologies need to be done by the students

3. Alumna Feedback

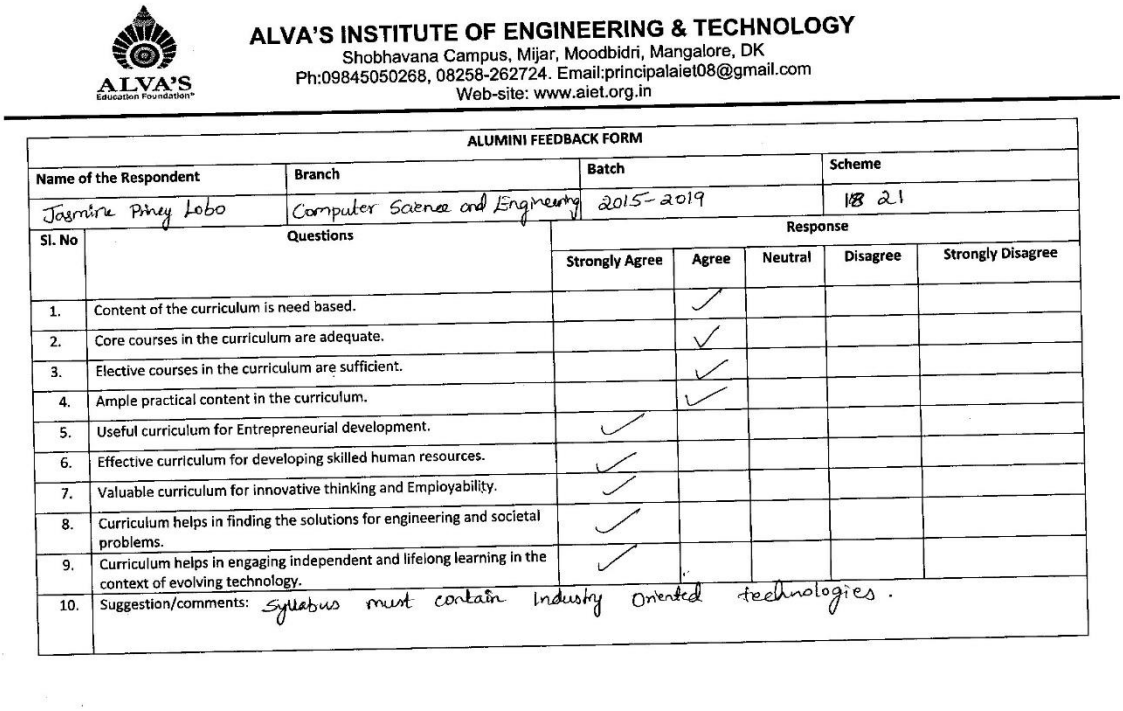
The IQAC creates a feedback form, which is distributed to all departments for response collection.

3.1 Alumni Feedback form on curriculum

In order to improve the effectiveness of the designed syllabus and to meet the needs of the contemporary advancements in the field of engineering, the curriculum feedback from our beloved alumnus were collected and analysed.

ALUMINI FEEDBACK FORM						
Name of the Respondent		Branch		Batch		Scheme
Sl. No	Questions	Response				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1.	Content of the curriculum is need based.					
2.	Core courses in the curriculum are adequate.					
3.	Elective courses in the curriculum are sufficient.					
4.	Ample practical content in the curriculum.					
5.	Useful curriculum for Entrepreneurial development.					
6.	Effective curriculum for developing skilled human resources.					
7.	Valuable curriculum for innovative thinking and Employability.					
8.	Curriculum helps in finding the solutions for engineering and societal problems.					
9.	Curriculum helps in engaging independent and lifelong learning in the context of evolving technology.					
10.	Suggestion/comments:					

Figure 3.1 : Shows the Feedback form



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ALUMINI FEEDBACK FORM

Name of the Respondent	Branch	Batch	Scheme
Jasmine Piney Lobo	Computer Science and Engineering	2015-2019	18 21

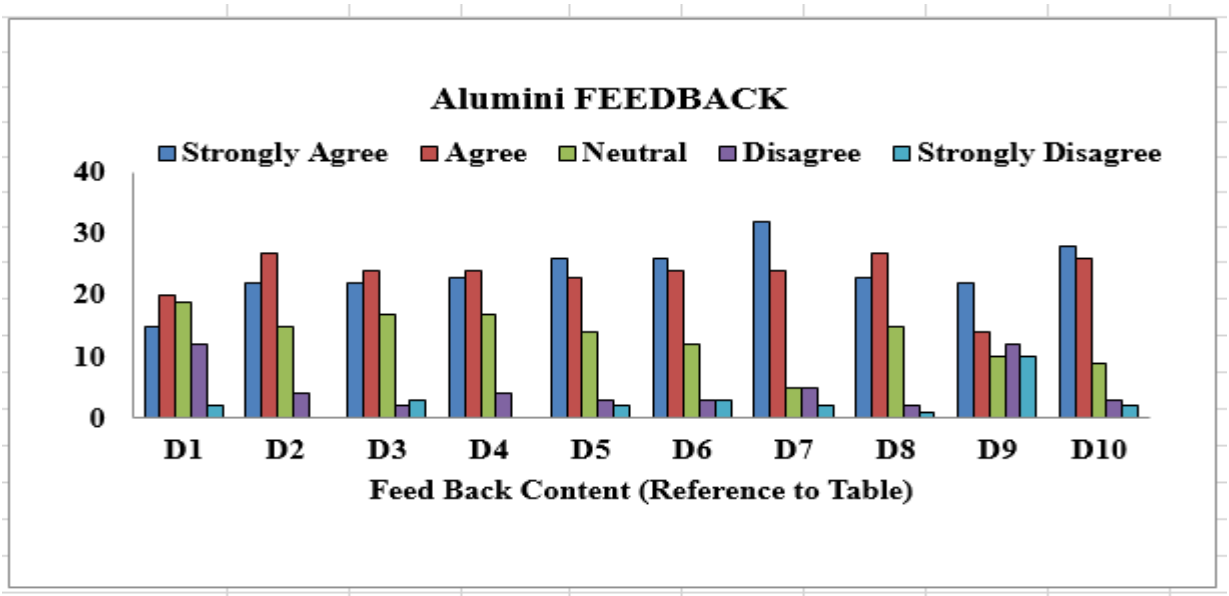
Sl. No	Questions	Response				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1.	Content of the curriculum is need based.		✓			
2.	Core courses in the curriculum are adequate.		✓			
3.	Elective courses in the curriculum are sufficient.		✓			
4.	Ample practical content in the curriculum.		✓			
5.	Useful curriculum for Entrepreneurial development.	✓				
6.	Effective curriculum for developing skilled human resources.	✓				
7.	Valuable curriculum for innovative thinking and Employability.	✓				
8.	Curriculum helps in finding the solutions for engineering and societal problems.	✓				
9.	Curriculum helps in engaging independent and lifelong learning in the context of evolving technology.	✓				
10.	Suggestion/comments: Syllabus must contain Industry Oriented technologies.					

Figure 3.2: Shows the sample copy of Feedback response

3.2 Feedback Analysis report

Feedback from alumnus was collected from those who visited the college during AY 2023-24.For this purpose, feedback form was prepared and taken feedback. Around 68 Alumni's visited college and responses have been collected from the Alumni on syllabus. In order to arrive to comprehensive results, various activities like industry visit,certification course and social awareness programmes have been done in the department. For the effective presentation of the data, various types of graphs have been used.91% students found curriculum to be very effective in enhancing team work, developing analytical skills and constructive learning and 9% students are expecting improvement in curriculum and resolving it timely

Alumna FEEDBACK									
	Total : 36 Alumna are provided the feedback on cricullum								
Sl. No	**Feedback Question**	**Strongly Agree**	**Agree**	**Neutral**	**Disagree**	**Strongly Disagree**	**total**	**A+B+C/ total**	**D+E/ total**
		A	**B**	**C**	**D**	**E**			
D1	Suitability of present curriculum towards program.	15	20	19	12	2	68	79%	21%
D2	Relevance of courses taught in terms of futuristic technologies.	22	27	15	4	0	68	94%	6%
D3	Technical and soft skills acquired for multidisciplinary real life situations	22	24	17	2	3	68	93%	7%
D4	The syllabus as good connections between theory and practical	23	24	17	4	0	68	94%	6%
D5	Courses focus on increasing the Knowledge in subject area	26	23	14	3	2	68	93%	7%
D6	The curriculum ensures that students participate in the educational process	26	24	12	3	3	68	91%	9%
D7	Outcome based Education & lifelong learning	32	24	5	5	2	68	90%	10%
D8	Aptness of examination pattern and evaluation scheme	23	27	15	2	1	68	96%	4%
D9	Competence in critical thinking, problem Solving and creativity acquired through curriculum	22	14	10	12	10	68	92%	4%
D10	Effective curriculum for developing skilled human resources	28	26	9	3	2	68	93%	7%
					Average			**91%**	**9%**



Comments

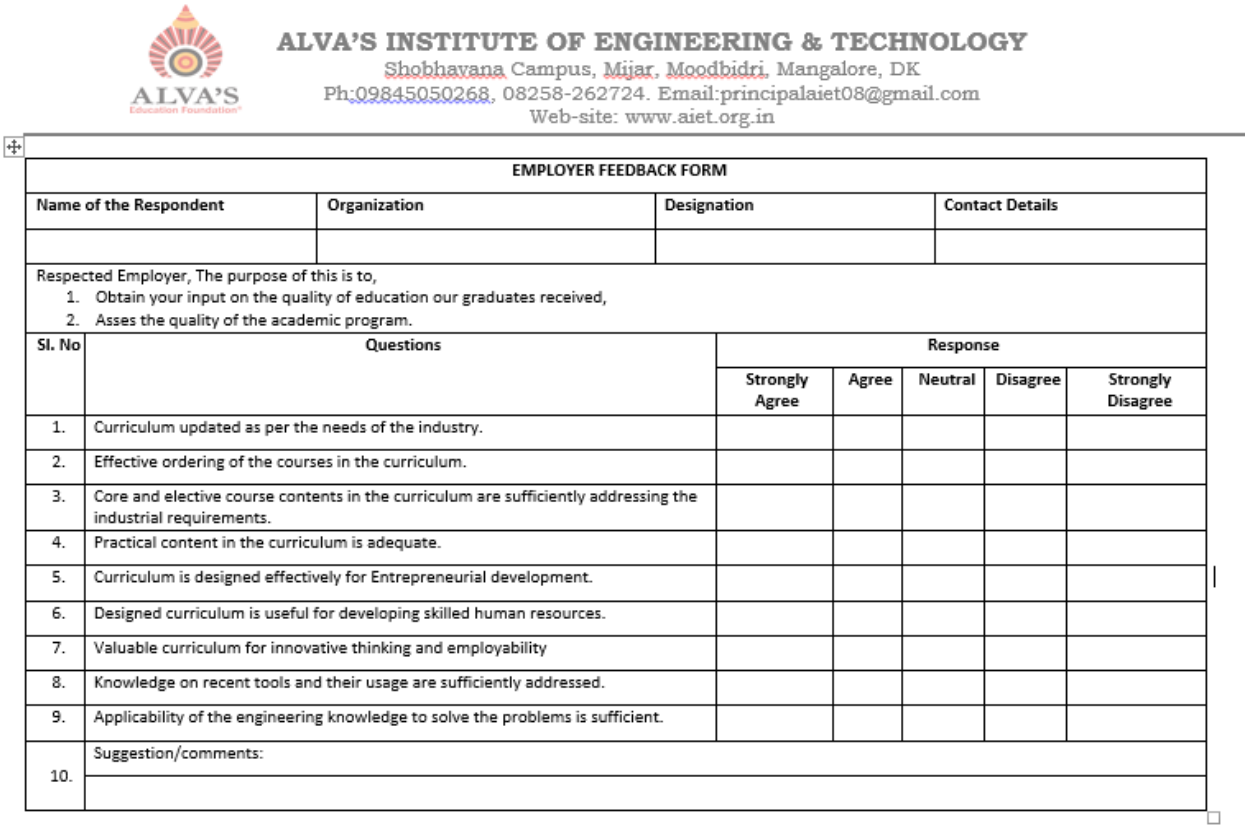
- The curriculum needs to include industry oriented new tools and technology
- More career Awareness Program and placement oriented training to be given to students.
- More Electives options should be provided in syllabus.
- Curriculum should ensuring professional ethics and positive attitude among the students

4. Employer Feedback

The IQAC creates a feedback form, which is distributed to various Employer who visit our institution for placement purpose and response is collected fromthem on curriculum. Following is the sample form of it.

4.1 Employer Feedback form on curriculum

The following figure shows feedback template used for collecting feedback on curriculum from Employer.



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EMPLOYER FEEDBACK FORM

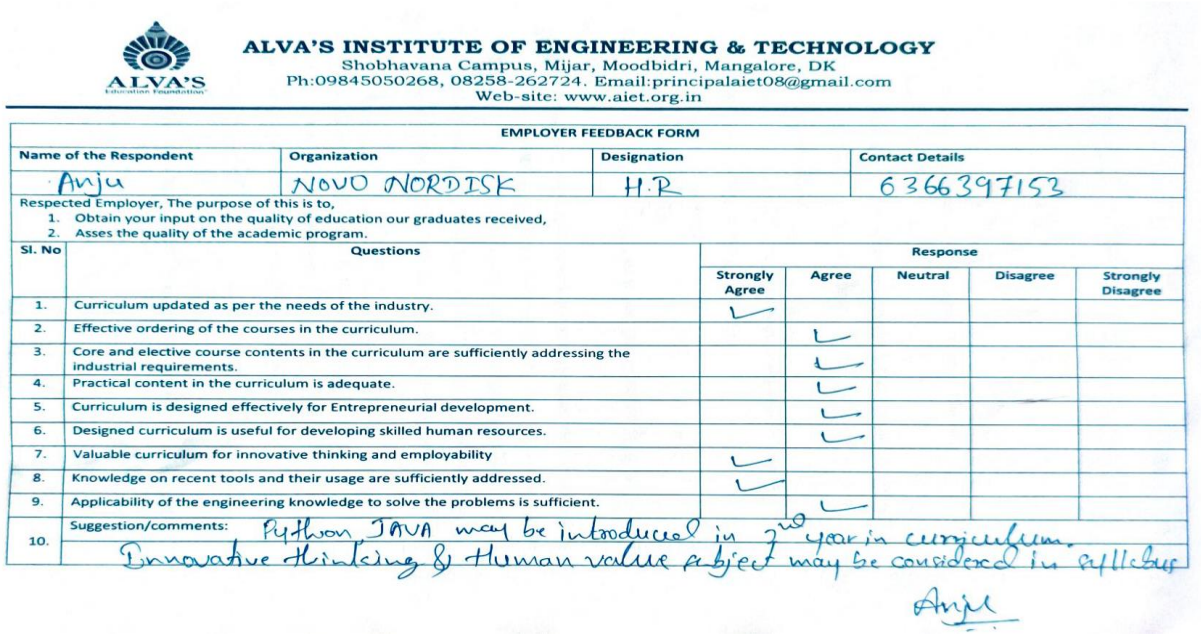
Name of the Respondent	Organization	Designation	Contact Details

Respected Employer, The purpose of this is to,
1. Obtain your input on the quality of education our graduates received,
2. Asses the quality of the academic program.

Sl. No	Questions	Response				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1.	Curriculum updated as per the needs of the industry.					
2.	Effective ordering of the courses in the curriculum.					
3.	Core and elective course contents in the curriculum are sufficiently addressing the industrial requirements.					
4.	Practical content in the curriculum is adequate.					
5.	Curriculum is designed effectively for Entrepreneurial development.					
6.	Designed curriculum is useful for developing skilled human resources.					
7.	Valuable curriculum for innovative thinking and employability					
8.	Knowledge on recent tools and their usage are sufficiently addressed.					
9.	Applicability of the engineering knowledge to solve the problems is sufficient.					
10.	Suggestion/comments:					

Figure 4.1: Feedback Template

Following figure shows the sample feedback response collected from employer w.r.t curriculum to enhance the quality of syllabus for students and teachers.



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EMPLOYER FEEDBACK FORM

Name of the Respondent	Organization	Designation	Contact Details
Anju	NOVO NORDISK	H.R	6366397153

Respected Employer, The purpose of this is to,
1. Obtain your input on the quality of education our graduates received,
2. Asses the quality of the academic program.

Sl. No	Questions	Response				
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1.	Curriculum updated as per the needs of the industry.	✓				
2.	Effective ordering of the courses in the curriculum.		✓			
3.	Core and elective course contents in the curriculum are sufficiently addressing the industrial requirements.		✓			
4.	Practical content in the curriculum is adequate.		✓			
5.	Curriculum is designed effectively for Entrepreneurial development.		✓			
6.	Designed curriculum is useful for developing skilled human resources.		✓			
7.	Valuable curriculum for innovative thinking and employability	✓				
8.	Knowledge on recent tools and their usage are sufficiently addressed.	✓				
9.	Applicability of the engineering knowledge to solve the problems is sufficient.		✓			
10.	Suggestion/comments: Python JAVA may be introduced in 2nd year in curriculum. Innovative thinking & Human value subject may be considered in syllabus					

Anju

Figure 4.2: Sample copy of Feedback copy

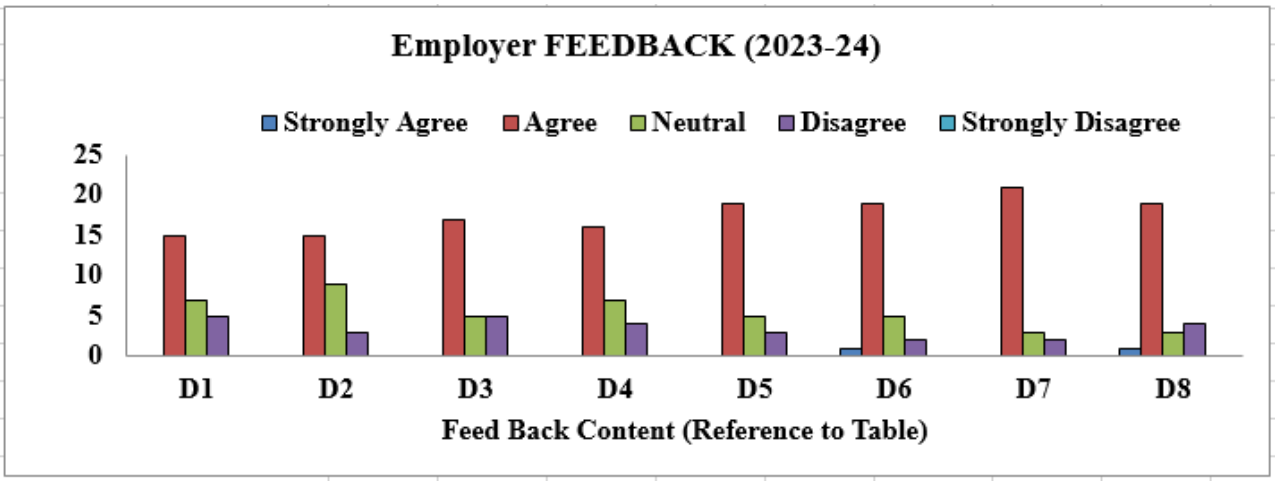
4.2 Feedback Analysis Report

An effort was made to receive feedback from employers, those who visit of the college for placement, workshop technical talks...etc during AY 2023-24. For this purpose, feedback form had been prepared and taken feedback. Around 27 employer visited college and responses have been collected from them on curriculum. In order to arrive to comprehensive results, the comments of employer have been analysed and various activities have been implemented in department. Also Human values activities soft skills have been done in department. Aptitude was given to the studentsFor the effective presentation of the data, various types of graphs have been used

87 % Employers are Satisfied with the process of Curriculum design and development. Employers opined that AIET's Curriculum is effective in developing ICT & communication skills and Curriculum has relevance to real life situations; reflects current trends and practices in the respective disciplines. 13% employers denied and suggested to improve the curriculum as per the industrial standards.

Employer FEEDBACK

	Empolyer count: 27								
Sl. No	**Feedback Question**	**Strongly Agree**	**Agree**	**Neutral**	**Disagree**	**Strongly Disagree**	**Total Response**	**A+B+C/total**	**D+E/total**
		A	**B**	**C**	**D**	**E**			
D1	Aptness of university curriculum for the present jobs	0	15	7	5	0	27	81%	19%
D2	Relevance of courses taught in terms of futuristic technologies.	0	15	9	3	0	27	89%	11%
D3	Technical and soft skills acquired for multidisciplinary real life situations	0	17	5	5	0	27	81%	19%
D4	Aptness of training/projects undertaken	0	16	7	4	0	27	85%	15%
D5	Competence in critical thinking, problem solving and creativity acquir	0	19	5	3	0	27	89%	11%
D6	Slice of industry component/interaction in curriculum	1	19	5	2	0	27	93%	7%
D7	The curriculum ensures professional ethics and attitude	0	21	3	2	0	26	92%	7%
D8	The curriculum promotes leadership qualities	1	19	3	4	0	27	85%	15%
						Average		**87%**	**13%**



Comments:

- Curriculum has be relevance to the industrial needs
- Curriculum should ensuring professional ethics and positive attitude among the students
- The inclination of the curriculum to adopt new methods and technology
- Provide the knowledge and skills demanded by the contemporary labour market
- Introduce new programming languages in 2nd year to enhance their knowledge.
- Needs to improve their innovative thinking and human values.

HOD CSE

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Action Taken Report

Date : 21/09/2023

The Department of computer Science & Engineering values the comments made during faculty members, students, Alumni and employers to improve the curriculum and make it more need-based research and job-oriented. We have addressed all of the suggestions made, and the measures have been taken in this regard to enhance the knowledge of students.

Action taken is listed in the table below as shown.

Key Feedback Response	Action taken
Certification courses on latest technology related to app development , python programming etc	Certification courses on • Apple iOS app Development • Infosys Springboard certification course • Advanced Java Programming in Code Chef
Coding assignments to be implemented in 2nd	Coding assignments by codechef for all the 2nd year itself.
Certification course for the 2nd year.	Fundamentals Of iOS Programming introduced for 2nd year students
Mini project lab for 2nd and 3rd year	Mini project lab for 3rd year
Curriculum should meet industry requirements	Workshop on • Cyber Securityand Ethical Hacking • Workshop On Flutter And Node JS • Workshop on power of generative AI in Software Development Life Cycle. • Workshop on Web Scarping • 3D Modelling and Game Development Modelling • Text Analytics And Natural Language Processing
Placement oriented soft skill activities	Skill Development Activities conducted for all the students Aptitude training is also given for the students Two weeks Training is given on C and Data Structures 3rd year students
Industry visit can be conducted	Visit to MRF Plant Nitte and Rani Abbakka Museum, Bantwal as a part of Social Connect and Responsibility Industrial Visit on Manipal Institute of Technology's Centre of Excellence in Cybersecurity.
Review paper Preparation/Presentation	Introduced in 2nd year students 3rd year students for the Research Methodology & Intellectual Property Rights

HOD CSE

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