Internal Quality Assurance Cell

Structured Feedback Analysis & Action Taken Report

On

Curriculum Revision

<u>FEEDBACK ANALYSIS</u>

(The Structured Feedback on Curriculum is collected from all relevant stakeholders and is submitted to the Departmental Quality Assurance Cell (DQAC) to analyze and deliberate on various suggestions made by the stakeholders and put up an action plan. A detailed report has to be submitted in the office of the Head of the Department. Following is the notification (via Email) of DQAC meeting and its minutes.)

<u>Department of Computer Science and Engineering</u>

<u>NOTICE</u>

A meeting of the DQAC of Department of Computer Science and Engineering is schedule to be held on 1st February 2024 at 11.30 a.m. in the HOD office, Department of CSE. All members are requested to make it convenient to attend.

Agenda: Analysis of Feedback Report (Session 2023-24) for all programs offered by the department.

Ms. Kavita Agrawal   31/1/24
HOD, Deptt. of CSE

Head
Department of Computer Science & Engineering
Integral University, Lucknow

Agenda: Analysis of Feedback Report (Session 2023-24) for all programs offered by the department

Date: 1st February 2024

Venue: HOD office, Department of CSE

Time: 11:30 a.m.

S.No.	Member Name	Designation	Signature
1.	Ms. Kavita Agarwal	Associate Professor & Head	
2.	Dr. Shish Ahmad	Professor, DQAC Chairman	
3.	Dr. Mohd. Haroon	Professor	
4.	Dr. M. M. Tripathi	Professor	
5.	Dr. Jameel Ahmad	Associate Professor	
6.	Dr. Halima Sadia	Associate Professor, DQAC Member Secretary	
7.	Dr. Faiyaz Ahmad	Associate Professor	
9.	Dr. Sheeba Praveen	Associate Professor	
10.	Dr. Mohd. Akbar	Associate Professor	
11.	Dr. Mohammad Suaib	Associate Professor	
12.	Mr. Mohd Usman Khan	Assistant Professor	
13.	Ms. Roshan Jahan	Assistant Professor	
14.	Ms. Ankita Srivastava	Assistant Professor	
15.	Ms. Nudrat Fatima	Assistant Professor	
16.	Dr. Sifatullah Siddiqi	Assistant Professor	
17.	Dr. S. H. Abbas Rizvi	Assistant Professor	
18.	Ms. Saleha Mariyam	Assistant Professor	

Members Excused:

S.No.	Member Name	Designation	Reason
	NA		

Members Absent:

S.No.	Name	Designation	Reason
	NA		

<u>Meeting Agenda Details:</u>

1. Discussion on all stakeholders' feedback on Curriculum Revision/ Introduction of New Course.
2. Preparation of detailed Feedback Analysis Report for all programs offered.
3. Preparation of Action Plan against suggested responses

Meeting Minutes:

After review and deliberation, the following points were observed:

1. The collective feedback of all the stakeholders was considered and a combined report of the recommendations was prepared. Reponses were gathered for eight questions. The first seven questions have been rigorously designed to capture the qualitative characteristics of the curriculum and its enrichment. The last question is a subjective question which captures the suggestions of the stakeholders. The questions recorded stakeholder views against professional competencies, sequencing of the content, adequacy of syllabi coverage & credit allocation, adequateness of textbooks and reference materials, syllabus in terms of active engagement of students, depth of the syllabus with respect to industry/global scenarios, and suggestion by the stakeholder.

2. The stakeholders have recorded a positive feedback and have shown satisfaction regarding the proposed curriculum. The responses have been collated and the suggestions and necessary action plan for revisions/ additions in the syllabi are captured in the feedback analysis report.

3. The Feedback Analysis Report is enclosed and submitted for necessary action.

4. Meeting ended with thanks to chair

(DQAC Chairman)

(HOD)

Head
Department of Computer Science & Engineering
Integral University, Lucknow

<u>Feedback by Students:</u> *(Dept. of Computer Science & Engineering)*

The categorization of rating based on average score of different parameters is as follows:

S. No.	Question	Responses (in terms of %)				Average Score out of 4	Ratings
		Excellent (4)	Very Good (3)	Moderate (2)	Poor (1)		
1.	Professional Competencies : The syllabi/ courses are able to achieve the intended outcomes	75	25	-	-	3.8	Very Good
2.	Rate the sequencing of the contents in the syllabi/ courses	75	25	-	-	3.8	Excellent
3.	Rate the adequacy of coverage and credit allocation in syllabi/courses	67	33	-	-	3.7	Very Good
4.	Rate the adequacy of textbooks and reference materials mentioned in syllabi	75	25	-	-	3.8	Excellent
5.	Rate the syllabi content in terms of active engagement of the students	75	25	-	-	3.8	Excellent
6.	Rate the depth of the syllabus for the course in relation to the competencies expected by industry/global scenarios	67	25	8	-	3.6	Very Good
7.	The syllabi/course will help in adding competitiveness among learners and helps in carrier progression	75	25	-	-	3.8	Excellent

*Excellent >3 *Very Good >2 *Moderate>1 * Poor<=1

Text Suggestions:

- Syllabus of Labs should be revised to incorporate industry 4.0.
- New Courses related to Full-Stack web development should be introduced at the undergraduate level
- Certification courses should be introduced.
- Curriculum should include courses focusing on Critical Thinking & Professional Skill for Workplace Management.
- Active interactions with alumni were requested to bring help the students for career guidance and mentorship.
- Courses should be revised to introduce New Education Policy.
- Value-added courses related to web development should be introduced.

Analysis of Feedback:

The Student's responses to the proposed changes in the curriculum against different parameters were analysed. Based on their feedback the following points were captured.

- 73% of the students rated the curriculum "Excellent" with respect to professional competencies, intended outcomes, sequencing of the contents, adequacy of textbooks and reference materials mentioned in syllabi, and will add competitiveness through active engagement among learners and will also helps in carrier progression. 27% rated it to be very good.
- Only 8% of the students rated **moderate** for the depth of the syllabus in relation to the competencies expected by industry/global scenarios.

Action Plan:

The analysis suggests that students' desire more focus on current industry trends such as Full-Stack development. This can be done by introducing courses related to Full-Stack development and its practical course to enhance the learning component to the current industry needs. Certification courses should be introduced.

Feedback by Teachers: *(Dept. of Computer Science & Engineering)*

The categorization of rating based on average score of different parameters is as follows:

S. No.	Question	Responses (in terms of %)				Average Score out of 4	Ratings
		Excellent (4)	Very Good (3)	Moderate (2)	Poor (1)		
1.	Professional Competencies : The syllabi/ courses are able to achieve the intended outcomes	67	33	-	-	3.7	Very Good
2.	Rate the sequencing of the contents in the syllabi/ courses	75	25	-	-	3.8	Excellent
3.	Rate the adequacy of coverage and credit allocation in syllabi/courses	75	25	-	-	3.8	Excellent
4.	Rate the adequacy of textbooks and reference materials mentioned in syllabi	45	33	22	-	3.2	Good
5.	Rate the syllabi content in terms of active engagement of the students	45	33	22	-	3.2	Good
6.	Rate the depth of the syllabus for the course in relation to the competencies expected by industry/global scenarios	67	33	-	-	3.7	Very Good
7.	The syllabi/course will help in adding competitiveness among learners and helps in carrier progression	67	25	-	8	3.5	Excellent

*Excellent >3 *Very Good >2 *Moderate>1 * Poor<=1

Text Suggestions:

- Syllabi of various lab courses should be updated according to current industry trends.
- National Education Policy should be introduced at the UG and PG levels.
- More Value Added Courses should be introduced in field of Full- Stack development.

Analysis of Feedback:

The Teacher's response to the proposed changes in the curriculum against different parameters were recorded and analysed. Based on their feedback the following points were captured.

- A majority of teachers rated the various parameters as excellent and very good.
- For the parameters where moderate and poor ratings were recorded, following action plan are proposed.

Action Plan:

- National Education Policy be introduced at UG & PG levels.
- Recent research to be included as reference.
- Department should continue the practice to update the course content as per Industry 4.0.

Feedback by Alumni: _(Dept. of Computer Science & Engineering)_

The categorization of rating based on average score of different parameters is as follows:

S. No.	Question	Excellent (4)	Very Good (3)	Moderate (2)	Poor (1)	Average Score out of 4	Ratings
1.	Professional Competencies : The syllabi/ courses are able to achieve the intended outcomes	70	30	-	-	3.8	Excellent
2.	Rate the sequencing of the contents in the syllabi/ courses	45	40	15	-	3.2	Good
3.	Rate the adequacy of coverage and credit allocation in syllabi/courses	57	18	17	8	3.2	Good
4.	Rate the adequacy of textbooks and reference materials mentioned in syllabi	57	31	12	-	3.5	Very Good
5.	Rate the syllabi content in terms of active engagement of the students	45	33	22	-	3.2	Good
6.	Rate the depth of the syllabus for the course in relation to the competencies expected by industry/global scenarios	60	30	10	-	3.5	Very Good
7.	The syllabi/course will help in adding competitiveness among learners and helps in carrier progression	80	20	-	-	3.8	Excellent

*Excellent >3 *Very Good >2 *Moderate>1 * Poor<=1

Text Suggestions:

- Labs should focus more on logic building in programming.
- More emphasis on the practical knowledge and change in the syllabus that are actually useful in the industry.
- Syllabus should adapt the advancements and modifications to the technology and trends to keep the learning up to date.
- The syllabus should be revised for development of entrepreneurship skills.
- Engagement of teacher and students must be there to make the course more valuable.
- Focus on research work.
- Introduction of Full stack development as a course.

Analysis of Feedback:

The Alumni response to different parameters with regards to relevance of syllabi, content of the curriculum against student placement, employability, and progression to higher studies were recorded and analysed. Based on their feedback the following points were captured.

- A majority of alumni rated the various parameters as good and very good.
- For the parameters where moderate and poor ratings were recorded following action plan is proposed.

Action Plan:

- The Full stack development course should be introduced to meet industry 4.0.
- Courses for web designing and development should be introduced.
- National Education Policy should be introduced at the UG and PG levels.
- Recent researches to be included as reference.

Feedback by Employer: *(Dept. of Computer Science & Engineering)*

The categorization of rating based on average score of different parameters is as follows:

S. No.	Question	Excellent (4)	Very Good (3)	Moderate (2)	Poor (1)	Average Score out of 4	Ratings
1.	Professional Competencies : The syllabi/ courses are able to achieve the intended outcomes	67	25	-	8	3.5	Very Good
2.	Rate the sequencing of the contents in the syllabi/ courses	45	33	22	-	3.2	Good
3.	Rate the adequacy of coverage and credit allocation in syllabi/courses	57	43	-	-	3.6	Excellent
4.	Rate the adequacy of textbooks and reference materials mentioned in syllabi	60	40	-	-	3.6	Excellent
5.	Rate the syllabi content in terms of active engagement of the students	80	20	-	-	3.8	Excellent
6.	Rate the depth of the syllabus for the course in relation to the competencies expected by industry/global scenarios	75	25	-	-	3.8	Excellent
7.	The syllabi/course will help in adding competitiveness among learners and helps in carrier progression	45	33	22	-	3.2	Good

*Excellent >3 *Very Good >2 *Moderate>1 * Poor<=1

Text Suggestions:

- Programming should be more focused than the theory part, to make students ready for the corporate.
- Curriculum has relevance to real life situations; reflects current trends and practices in the respective disciplines.
- Organizing workshops, guest lectures and seminars related to the current trends of computer science and engineering.
- Introduction of web scripting, mobile app development and MERN as course.

Analysis of Feedback:

The Employer' responses to different parameters were recorded and analysed. Based on their feedback the following points were captured.

- A majority of Employer rated the various parameters as excellent and very good.
- For the parameters where moderate and poor ratings were recorded following action plan is proposed.

Action Plan:

- The practicality of the syllabi shall be enhanced for active engagement.
- Recent researches to be included as reference
- Courses related to web scripting, web designing should be started.

B.Tech. Computer Science & Engineering

M.Tech. Computer Science & Engineering

(A detailed report on Feedback Analysis and Action Plan was prepared and submitted by the DQAC members in the office of the Head of the Department of Computer Science and Engineering on 2nd February 2024. The MoM of the Feedback Analysis is also attached.)

A meeting of the departmental DQAC members was held on 5th February 2024. In this meeting the feedback analysis report was discussed. After intense deliberations, the DQAC made the following recommendations as the Action Taken Report which was submitted to the BOS committee for further decision on revision and or addition of proposed syllabi. The following proposals were made in the meeting:

(Department of Computer Science and Engineering)

❖ To put for approval the new courses for 2nd year/ 4th Semester Bachelor of Technology - Computer Science & Engineering, to be effective from the academic session 2023-24.

- CS292   Theory of Computation
- CS290   Full Stack Development- Front End
- CS291   Full Stack Development- Front End Lab

❖ Introduction and approval of the following new courses for 1st year, 2nd year, 3rd year, and 4th year Bachelor of Technology - Computer Science & Engineering, to be effective from the academic session 2024-25:

- CS131   Web Design Lab
- CS289   Web Scripting Lab
- CS229   Software Engineering
- CS336   Full Stack Development- Backend
- CS337   Full Stack Development- Backend Lab
- CS339   Artificial Intelligence
- CS425   Machine Learning
- CS426   Competitive Coding
- CS200   Industrial Training /Internships /Apprenticeship – I
- CS300   Industrial Training /Internships /Apprenticeship – II
- CS400   Industrial Training /Internships /Apprenticeship - III

❖ Introduction and approval of the following new courses for 2nd year Bachelor of Technology - Electrical & Computer Science Engineering (The evaluation scheme of B.Tech. ECS is already approved in the 29th Academic council), to be effective from academic session 2024-25:

- CS287   Design of Algorithm & Data Structure

- CS288   Design of Algorithm & Data Structure Lab

❖ Introduction and approval of a new program Bachelor of Technology - Computer Science & Engineering specialization in Software Product Engineering with an intake of 100 and annual fees of 3.5 Lacs.

❖ Revision of the following courses of Bachelor of Technology - Computer Science & Engineering, to be effective from academic session 2024-25:

- CS102   Computer Programming Lab
- CS208   Data Structure using C Lab
- CS220   DBMS Lab
- CS271   Object Oriented concepts using Java Lab
- CS272   Python Programming Lab
- CS282   Advance Java Programming Lab
- CS302   Design & Analysis of Algorithm Lab
- CS306   Computer Networks Lab
- CS314   Microprocessor Lab
- CS316   Compiler Design Lab
- CS424   SciLab

❖ To put for approval the evaluation scheme for 1st and 2nd semester Bachelor of Technology - Computer Science & Engineering, to be effective from the academic session 2024-25 for admitted batch 2024-25 onwards.

❖ To put for approval the evaluation scheme for 3rd semester Bachelor of Technology - Computer Science & Engineering, to be effective from the academic session 2024-25 for admitted batch 2023-24 onwards.

❖ To put for approval the evaluation scheme for 4th Semester Bachelor of Technology - Computer Science & Engineering, to be effective from the academic session 2023-24.

❖ To put for approval the evaluation schemes for 5th and 6th semester Bachelor of Technology - Computer Science & Engineering, to be effective from the academic session 2024-25 for admitted batch 2022-23 onwards.

❖ To put for approval the evaluation schemes for 7th and 8th semester Bachelor of Technology - Computer Science & Engineering, to be effective from the academic session 2024-25 for admitted batch 2021-22 onwards.

❖ Introduction and approval of a new value-added course "CSV-23-03 Web Development" to be effective from the academic session 2023-24.

❖ List of courses with focus on Employability, Entrepreneurship and Skill Development.

❖ List of courses integrating cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.

Upon considering the expert comments provided by the BOS members, the committee approved all reports and agenda items, endorsing them for further approval by FB and AC.

Ms. Kavita Agrawal 6|2|24
HOD, Deptt. of CSE