INTEGRAL UNIVERSITY

CRITERION- I–CURRICULAR ASPECTS

1.4 Feedback System

1.4.1: Structured feedback for design and review of syllabus – semester- wise / year-wise is received from 1) Students, 2) Teachers, 3) Employers 4) Alumni

CONTENTS

Internal Quality Assurance Cell

Structured Feedback Analysis & Action Taken Report

On

Curriculum Revision

FEEDBACK ANALYSIS

(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.)

Department of Computer Science and Engineering

NOTICE

A meeting of the DQAC of Department of Computer Science and Technology is schedule to be held on 21st January 2018 in the DQAC room to discuss following agenda items. All members are requested to make it convenient to attend.

Agenda: Analysis of Feedback Report (Session 2018-19) for all programs offered by the department.

HOD
CSE Department
Integral University

Prof. Mohammed Haris Siddiqui
Registrar
Integral University, Lucknow, India

Head
Department of Computer Science & Engineering
Integral University, Lucknow

Department of Computer Science and Engineering

Minutes of the Meeting of DQAC

Agenda: Analysis of Feedback (Session 2018-19) for all programs offered by the department.

Date: 21st January 2018

Venue: DQAC Room **Time:** 11am

S.No.	Member Name	Designation	Signature
1.	Dr. M. Akheela Khanum	Associate Professor	
2.	Ms. Kavita Agrawal	Associate Professor	
3.	Dr. Shish Ahmad	Associate Professor	
4.	Dr. Mohd Haroon	Associate Professor	
5.	Dr. M M Tripathi	Associate Professor	
6.	Mr. Mohd Arif	Associate Professor	
7.	Mr. Jameel Ahmad	Assistant Professor	
8.	Dr. Mohd Shahid Husain	Assistant Professor	
9.	Mr. Shashank Singh	Assistant Professor	
10.	Mr. Mohit Kumar	Assistant Professor	

Members Excused:

S.No.	Member Name	Designation	Reason
NA			

Members Absent:

S.No.	Name	Designation	Reason
1.	Mr. Shashank Singh	Assistant Professor	Was out of station

Meeting Agenda details:

1. Discussion on all stakeholders' feedback on curriculum revision.
2. Preparation of detailed Feedback Analysis Report for all programs offered.
3. Preparation of Action Plan against suggested responses.

Meeting Minutes:

After due discussions and deliberations following decisions were taken.

1. The collective feedback of all the stakeholders was analysed and a consolidated report of the recommendations was prepared. Feedback was taken against 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 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

INTEGRAL UNIVERSITY LUCKNOW-INDIA

Prof. Mohammad Haris Siddiqui
Registrar
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Internal Quality Assurance Cell

Department of Computer Science and Engineering

Feedback Analysis Report

**B.Tech. Computer Science & Engineering, M.Tech. Computer Science & Engineering, B.Tech. Computer Science & Engineering specialization in Cloud Technology & Information Security*

Feedback by Students:

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	68	27	5	-	3.54	Excellent
2.	Rate the sequencing of the contents in the syllabi/ courses	75	23	-	2	3.71	Excellent
3.	Rate the adequacy of coverage and credit allocation in syllabi/courses	75	25	-	-	3.75	Excellent
4.	Rate the adequacy of textbooks and reference materials mentioned in syllabi	70	22	3	5	3.57	Excellent
5.	Rate the syllabi content in terms of active engagement of the students	78	20	-	2	3.74	Excellent
6.	Rate the depth of the syllabus for the course in relation to the competencies expected by industry/global scenarios	68	25	8	-	3.63	Excellent
7.	The syllabi/course will help in adding competitiveness among learners and helps in carrier progression	77	23	-	-	3.77	Excellent

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

Text Suggestions:

- Most of the students admitted that the program was stimulating and challenging and that the program curriculum was rich and work-oriented.
- The students also reported that they have a good variety of courses to choose offered by the department of Computer Science & Engineering.
- Students suggested that new courses related to the advancements in the field of Computer Science & Engineering should be introduced in the present running B.Tech. program.
- Students also suggested that specialized programs should be introduced in Post Graduate Program of M.Tech.
- Most of the students admitted as a student they are completely satisfied with the academic and campus environment of the institution.
- When asked about faculty, most of the students emphasised that
  - The faculty understands their problems and focusses not only on completing syllabus but also on the advancements in the technology.
  - The faculties were perceptive and understood the individual needs of the students.
  - The faculty demonstrated enthusiasm for their subjects as well as for teaching.
  - The faculty took a keen interest in the professional development of the students.
  - The faculties were accessible outside of the classroom.
  - The faculty evaluated assignments regularly and gave feedback on students' performance at regular intervals.

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Prof. Mohammad Haris Siddiqui
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- Fewer of the feedbacks suggested upgrading and improving the teaching methodology and faculty's teaching skills. Faculties are encouraged and motivated to attend FDP, seminars and conference especially on "Teaching and Learning" process and they are been supported by the administration also by granting DL and reimbursements.
- When asked about the teaching methodology: The students suggested that "Hybrid" teaching method should be used. The teachers should adapt to the changing time. A combination of the following methods was suggested (PPT /Chalk-&-Talk/ White Board-Marker/ Illustrative Simulation/Activity Engagement/ Hybrid).
- Students also suggested that more emphasis should be given on organizing Programming practices or coding quizzes, cadd designing etc, cultural activities.
- Students suggested some emphasis should be given for improving the technical skills.
- Many students suggested having a separate area to study and also the canteens should have reasonable prices.

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.

- Fairly 70% students were keen to recommend the program to others and to their acquaintances whereas 10% and 20% said "NO" and "Can't Say" respectively.
- Approx 78% students had sought admission because of "Good reputation of University", 22% because of Superior program curriculum, 65% "because of Good career counselling facilities", 35% because of "A friend had recommended the program" and 5% because they "couldn't secure admission anywhere else".
- Approx 28% students opined that the program was "truly enriching and exceeded all their expectations", A max of *47% students opined "program was enriching and met their expectations."* 28% opined the program was "somewhat enriching and somewhat met their expectations" and only 4% were such who opined that the "program was mediocre and failed to meet their expectations."
- Approx 57% students were ready to take admissions in the specialized courses.

Action Plan:

The analysis suggests that students' desires more focus on experimental learning. This can be improved by introducing more experiments and other experimental learning components. So, more practical experiments will be included in the syllabi for improving competencies.

Feedback by Teachers:

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	63	27	10	-	3.53	Excellent
2.	Rate the sequencing of the contents in the syllabi/ courses	72	25	-	3	3.66	Excellent
3.	Rate the adequacy of coverage and credit allocation in syllabi/courses	59	31	10	-	3.49	Excellent
4.	Rate the adequacy of textbooks and reference materials mentioned in syllabi	44	28	22	6	3.10	Excellent
5.	Rate the syllabi content in terms of active engagement of the students	46	31	24	-	3.25	Excellent
6.	Rate the depth of the syllabus for the course in relation to the competencies expected by industry/global scenarios	65	33	-	2	3.61	Excellent
7.	The syllabi/course will help in adding competitiveness among learners and helps in carrier progression	64	36	-	-	3.64	Excellent

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

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Text Suggestions:

- Advance specialized programs to be introduced.
- Syllabus of courses to be revised.

Analysis of Feedback:

The Teacher's response to the proposed changes in the curriculum against different 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:

- More study materials and reference materials are to be added in the syllabi.
- The practicality of the syllabi should be enhanced for active participation of students.
- Recent researches and advancements to be included as reference.

Feedback by Alumni:

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	70	30	-	-	3.70	Excellent
2.	Rate the sequencing of the contents in the syllabi/ courses	48	30	22	-	3.26	Excellent
3.	Rate the adequacy of coverage and credit allocation in syllabi/courses	57	18	17	8	3.24	Excellent
4.	Rate the adequacy of textbooks and reference materials mentioned in syllabi	57	31	12	-	3.45	Excellent
5.	Rate the syllabi content in terms of active engagement of the students	45	33	22	-	3.23	Excellent
6.	Rate the depth of the syllabus for the course in relation to the competencies expected by industry/global scenarios	60	30	10	-	3.50	Excellent
7.	The syllabi/course will help in adding competitiveness among learners and helps in carrier progression	81	19	-	-	3.81	Excellent

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

Text Suggestions:

- The program was stimulating and challenging and that the program curriculum was rich and work-oriented.
- Have a good variety of courses to choose offered by the department of Computer Science & Engineering.
- Suggested that new courses related to the advancements in the field of Computer Science & Engineering should be introduced in the present running B.Tech. program.
- Introduction of Value Added Courses related to Multimedia.

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 excellent and very good.
- For the parameters where moderate and poor ratings were recorded following action plan is proposed.

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Action Plan:

- For the adequacy of coverage and credit allocation in syllabi/courses, it will be revisited with the advice of the statutory bodies' committee members.
- The practicality of the syllabi shall be enhanced for active engagement.
- Recent technologies to be included as reference for better enhancements.

Feedback by Employer:

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	69	20	11		3.58	Excellent
2.	Rate the sequencing of the contents in the syllabi/ courses	43	37	20		3.23	Excellent
3.	Rate the adequacy of coverage and credit allocation in syllabi/courses	55	45	-	-	3.55	Excellent
4.	Rate the adequacy of textbooks and reference materials mentioned in syllabi	60	40	-	-	3.60	Excellent
5.	Rate the syllabi content in terms of active engagement of the students	80	20	-	-	3.80	Excellent
6.	Rate the depth of the syllabus for the course in relation to the competencies expected by industry/global scenarios	70	20	6	4	3.56	Excellent
7.	The syllabi/course will help in adding competitiveness among learners and helps in carrier progression	48	30	20	2	3.24	Excellent

*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 latest advancements and its implementations.
- Organizing interactive sessions for latest technology enhancements.
- Introduce Advance courses for making students ready for their interviews.
- Different elective subjects and MOOC courses to be introduced.

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 adequacy of coverage and credit allocation in syllabi/courses, Professional Competencies to achieve the intended outcomes and adding competitiveness among learners will be revisited with the advice of the statutory body's committee members.
- Recent Research topics should also be introduced.
- The practicality of the syllabi shall be enhanced for active engagement.

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INTEGRAL UNIVERSITY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Action Taken Report

(As per the Feedback of Stakeholders)

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Internal Quality Assurance Cell

Department of Computer Science and Engineering

Action Taken Report

**B.Tech. Computer Science & Engineering, M.Tech. Computer Science & Engineering, B.Tech. Computer Science & Engineering specialization in Cloud Technology & Information Security*

(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 DQAC on 21st January 2018. *The MoM of the Feedback Analysis is also attached.)*

A meeting of the departmental DQAC members was held on 21st January 2018.In this meeting the feedback analysis report submitted on value added course and syllabus addition 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:

After due discussions and deliberations following decisions were taken.

- Revision of the following subjects of B.Tech. CSE 7th Semester:
  - Computer Architecture CS409
  - Distributed Systems CS410
  - Distributed Systems Lab CS411
  - Cryptography and Network Security CS412
  - Cryptography and Network Security Lab CS413
  - Concepts in Advanced Database system CS414
  - Data Compression CS416
  - Mobile Computing CS417

- A new subject Python Programming (CS-252) from session 2018-19 in 3rd semester B.Tech (CTIS) is to be introduced.

- New Course Introduction: 5th semester Courses of B.Tech. (CTIS):
  - Logical reasoning and thinking (CS-361)
  - Storage technologies (CS-353)
  - Installation and configuration of server (CS-357)
  - Ethical Hacking (CS-355)
  - Cloud technology (CS-351)
  - Storage technologies LAB (CS-354)
  - Ethical Hacking LAB (CS-356)
  - Installation and configuration of server LAB (CS-358)
  - Cloud technology LAB (CS-352)
  - Security Architecture (CS-359)
  - Data base security (CS-363)
  - Server security (CS-364)

- New Course Introduction: 6th semester Courses of B.Tech. (CTIS):
  - Web technology (CS-371)
  - Theory of automata and compiler design (CS-372)
  - Cloud security (CS-373)
  - Principles of virtualization (CS-374)
  - Infrastructure solution on cloud (CS-375)

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- Infrastructure solution on cloud LAB (CS-376)
- Principles of virtualization LAB (CS-377)
- Mini Project-I (CS-399)
- Information security emerging trends (CS-378)
- Cyber security incident response management (CS-379)
- Application security (CS-380)

➢ New Course Introduction: 7th semester Courses of B.Tech. (CTIS):
- Cyber forensic & investigation (CS-461)
- Cloud web services (CS-462)
- LINUX administration (CS-463)
- Disaster recovery and business continuity management (CS-464)
- Cyber forensic & investigation LAB (CS-465)
- Cloud web services LAB (CS-466)
- LINUX administration LAB (CS-467)
- Mini Project-II (CS-479)
- Industrial Training (CS-300)
- Exchange server administration (CS-468)
- Advance virtualization (CS-469)
- Infrastructure automation (CS-470)
- IT governance Risk & information security)management
- COBIT VALIT RISKIT (CS-471)
- ISO 27001, PCI DSS & HIPAA (CS-472)

➢ New Course Introduction: 8th semester Courses of B.Tech. (CTIS):
- IT Infrastructure Library (CS-481)
- Comprehensive Viva (CS-452)

➢ New Course Introduction: All semesters of M.Tech CSE with specialization in Advanced Computing & Data sciences.
- Mathematical Programming (CS546)
- Advanced Database system LAB (CS543)
- Machine Learning Theory and methods (CS544)
- R programming LAB (CS545)
- Machine learning: Tools LAB (CS549)
- Big data Analytics (CS616)
- Big data management and Data analytics LAB (CS617)
- M.Tech. Dissertation (CS600)
- Natural language processing (CS618)
- Adv. Statistical technique for data analytics (CS624)
- Internet of Things (CS626)
- Information Retrieval (CS620)
- Web Mining/Web Intelligence (CS622)
- Advance HCI Lab (CS541)

➢ New Course Introduction: PhD Computer Science & Engg.)
- CS-703 Distributed Operating Systems
- CS704 DIGITAL IMAGE PROCESSING & ITS APPLICATIONS
- CS705 Soft Computing
- CS706 Applied Data Mining & Analytics

➢ Add-on Courses proposed/ offered to the students by department have been discussed by members and the same has been approved by the BoS. The following Add-on Courses are being introduced:
- CSE01-2018 Java Basics
- CSE02-2018 Linux for Newbie
- CSE03-2018 Multimedia Technologies and Computer Animation
- CSE04-2018 Python for Machine Learning

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- Departmental internship program proposed for the students (except those who join internship in external organization) in this session has been discussed and approved by BOS
  - CSET01 Computer Hardware & Networking
  - CSET02 R Programming
  - CSET03 Advanced Computer Hardware & Networking

Based on the expert comments of the BOS members, the committee approved all the reports/agenda items and recommended it for further approval in the FB and AC.

Name & Signature
(Head of the Department)

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Registrar
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Head
Department of Computer Science & Engineering
Integral University, Lucknow