



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

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REPORT ON

STUDENT SATISFACTION SURVEY

Academic Year: 2020 - 2021

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1. Student Satisfaction Survey

Survey Methodology

IARE has always been on a high growth path. Institute has administered student satisfaction survey (SSS) in order to provoke student assessment and perspective regarding institutional services, internet facilities, library facilities, food quality, feel safe & security, sanitation & hygiene, values and innovation to ensure institutional educational accountability & Institutional transparency.

For the NAAC AQAR, Students Satisfaction Survey (SSS) regarding Teaching – Learning and Evaluation was conducted among the students of the institute through the website. The students will remain anonymous throughout the survey process. In SSS there would be twenty one questions all over and out of which, twenty questions would be objective type and one question provides opportunity for the students to give their observations / suggestions in a descriptive way to improve the overall teaching – learning experience in our institution. The questionnaire covers a wide array of skills involved in the teaching process which vary from teaching skills of the teacher, technical knowledge, effectiveness of communication, preparedness, doubt clearing skills and use of ICT, to overall approach to the educational process like motivation, interpersonal relationships, feedback, dynamically modifying teaching methodology to help weak students etc.,

The Questionnaire is based on the likert scale on a graded marking system. Highest positive response is rated as 4 and the lowest negative response is rated as 0. This removes the binary forced approach and provides a more comfortable wider range for students to register their opinion. The questionnaire is mailed to students through Google form.

A student will have to respond to all the questions given in the following format with her/his sincere effort and thought. The outcome of the survey will help to reach the objective of the institution. This will also help to initiate remedial action to improve the facilities whenever and wherever it is required. The result of the survey will provide a base to plan for the future. Her/his identity will not be revealed.

Totally 4844 students responded to Student Satisfaction Survey. The analysis of the survey conducted shows that, 3704 students were highly satisfied on the Teaching Learning Process of the institution. Students have expressed satisfaction over the syllabus covered in their classes and laboratories

2. Questionnaire

National Assessment and Accreditation Council (NAAC)

Student Satisfaction Survey

Key Indicator - 2.7.1

Under Criterion II of Teaching – Learning and Evaluation

Guidelines for Students

NAAC (National Assessment and accreditation council) is conducting a Student Satisfaction Survey regarding Teaching – Learning and Evaluation, which will help to upgrade the quality in higher education. A student will have to respond to all the questions given in the following format with her/his sincere effort and thought. Her/his identity will not be revealed.

- A) Please confirm this is the first and only time you answer this survey.
a) Yes b) No
- B) Age:
- C) College Name:
- D) Gender:
a) Female b) Male c) Transgender
- E) What degree program are you pursuing now?
a) Bachelor's b) Master's c) MPhil d) Doctorate
e) Other
- F) What subject area are you currently pursuing?
a) Arts b) Commerce c) Science
d) Professional e) Other:

Instructions to fill the questionnaire

- All questions should be compulsorily attempted.
- Each question has five responses, choose the most appropriate one.
- The response to the qualitative question no.21 is student' support unity to give suggestions or improvements; she/he can also mention weaknesses of the institute here. (Kindly restrict your response to teaching learning process only)

Criterion II – Teaching–Learning and Evaluation

Student Satisfaction Survey on Teaching Learning Process

Following are questions for online student satisfaction survey regarding teaching learning process.

1. How much of the syllabus was covered in the class?
 - 4 – 85 to 100%
 - 3 – 70 to 84%
 - 2 – 55 to 69%
 - 1– 30 to 54%
 - 0 –Below 30%
2. How well did the teachers prepare for the classes?
 - 4 –Thoroughly
 - 3 – Satisfactorily
 - 2 – Poorly
 - 1 – Indifferently
 - 0 – Won't teach at all
3. How well were the teachers able to communicate?
 - 4 – Always effective
 - 3 – Sometimes effective
 - 2 – Just satisfactorily
 - 1– Generally ineffective
 - 0– Very poor communication
4. The teacher's approach to teaching can best be described as
 - 4– Excellent
 - 3 – Very good
 - 2 – Good
 - 1 – Fair
 - 0– Poor
5. Fairness of the internal evaluation process by the teachers.
 - 4 – Always fair
 - 3 – Usually fair
 - 2 – Sometimes unfair
 - 1 – Usually unfair
 - 0– Unfair
6. Was your performance in assignments discussed with you?
 - 4 – Every time
 - 3 – Usually
 - 2 – Occasionally/Sometimes
 - 1 – Rarely
 - 0– Never
7. The institute takes active interest in promoting internship, student exchange, field visit opportunities for students.
 - 4 – Regularly
 - 3 – Often
 - 2 – Sometimes
 - 1 – Rarely

- 0– Never
8. The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth.
- 4 – Significantly
 - 3 – Very well
 - 2 – Moderately
 - 1 – Marginally
 - 0– Not at all
9. The institution provides multiple opportunities to learn and grow.
- 4 – Strongly agree
 - 3 – Agree
 - 2 – Neutral
 - 1 – Disagree
 - 0– Strongly disagree
10. Teachers inform you about your expected competencies, course outcomes and programme outcomes.
- 4 – Every time
 - 3 – Usually
 - 2– Occasionally/Sometimes
 - 1 – Rarely
 - 0– Never
11. Your mentor does a necessary follow-up with an assigned task to you.
- 4 – Every time
 - 3 – Usually
 - 2 – Occasionally/Sometimes
 - 1 – Rarely
 - 0 – I don't have a mentor
12. The teachers illustrate the concepts through examples and applications.
- 4 – Every time
 - 3 – Usually
 - 2 – Occasionally/Sometimes
 - 1– Rarely
 - 0 – Never
13. The teachers identify your strengths and encourage you with providing right level of challenges.
- 4 – Fully
 - 3 – Reasonably
 - 2 – Partially
 - 1 – Slightly
 - 0– Unable to
14. Teachers are able to identify your weaknesses and help you to overcome them.
- 4 – Every time
 - 3 – Usually
 - 2 – Occasionally/Sometimes
 - 1 – Rarely
 - 0 – Never
15. The institution makes effort to engage students in the monitoring, review and continuous quality improvement of the teaching learning process.

- 4 – Strongly agree
 - 3 – Agree
 - 2 – Neutral
 - 1 – Disagree
 - 0 – Strongly disagree
16. The institute/ teachers use student centric methods, such as experiential learning, participative learning and problem-solving methodologies for enhancing learning experiences.
- 4 – To a great extent
 - 3 – Moderate
 - 2 – Somewhat
 - 1 – Very little
 - 0 – Not at all
17. Teachers encourage you to participate in extracurricular activities.
- 4 – Strongly agree
 - 3 – Agree
 - 2 – Neutral
 - 1 – Disagree
 - 0 – Strongly disagree
18. Efforts are made by the institute/ teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work.
- 4 – To a great extent
 - 3 – Moderate
 - 2 – Some what
 - 1 – Very little
 - 0 – Not at all
19. What percentage of teachers use ICT tools such as LCD projector, Multimedia, etc. while teaching.
- 4 – Above 90%
 - 3 – 70 – 89%
 - 2 – 50 – 69%
 - 1 – 30 – 49%
 - 0 – Below 29%
20. The overall quality of teaching-learning process in your institute is very good.
- 4 –Strongly agree
 - 3 – Agree
 - 2 – Neutral
 - 1 – Disagree
 - 0 – Strongly disagree
21. Give three observation / suggestions to improve the overall teaching – learning experience in your institution.
- a)
 - b)
 - c)

3. Summary of the Survey

Program wise student participation in the survey

S. No	Name of the Program	No. of students
1	B. Tech. Aeronautical Engineering	508
2	B. Tech. Computer Science & Engineering	1024
3	B. Tech.-Information Technology	488
4	B. Tech.-Electronics and Communication Engineering	1042
5	B. Tech.-Electrical and Electronics Engineering	437
6	B. Tech.-Mechanical Engineering	448
7	B. Tech.-Civil Engineering	440
8	B. Tech.- CSE (Data Science)	60
9	B. Tech.- CSE (Cyber Security)	60
10	B. Tech.- CSE (Artificial Intelligence and Machine Learning)	60
11	B. Tech.- Computer Science and Information Technology	60
12	M. Tech. Computer Science and Engineering	11
13	M. Tech. Embedded Systems	15
14	M. Tech. Structural Engineering	31
15	M. Tech. Aero Space Engineering	20
16	M. Tech. Computer Aided Design and Manufacture	15
17	M. Tech. Electrical Power Systems	17
18	Master of Business Administration	108
	Total	4844

4. Analysis of the Student Satisfaction Survey

Student's Feedback - Teaching – Learning and Evaluation

S. No	Description	Average Score
1	Syllabus covered in the class	3.16
2	Teacher's preparation for the classes	3.33
3	Teacher's communication	3.14
4	Teaching approach	3.18
5	Internal evaluation process by the teachers	3.14
6	Discussion of Students performance in assignments	3.14
7	Internship, student exchange, field visit opportunities	3.08
8	Teaching and mentoring process to facilitates cognitive, social and emotional growth	3.18
9	Multiple opportunities to learn and grow	3.2
10	Information about expected competencies, course outcomes and program outcomes	3.18
11	Mentor follow-up with an assigned task to students	3.18
12	Teachers illustrate the concepts through examples and applications.	3.14
13	Teachers identify student strengths and encourage students with providing right level of challenges	3.14
14	Teachers are able to identify students' weaknesses and help students to overcome them.	3.13
15	Efforts taken to Students in monitoring, review and continuous quality improvement of the teaching learning process.	3.23
16	The institute/ teachers use student centric methods, such as experiential learning, participative learning and problem-solving methodologies for enhancing learning experiences.	3.19
17	Teachers encourage students to participate in extracurricular activities	3.19
18	Efforts made by the institute/ teachers to inculcate soft skills, life skills and employability skills to make students ready for the world of work	3.2
19	Percentage of teachers use ICT tools such as LCD projector, Multimedia, etc. while teaching.	3.11
20	The overall quality of teaching-learning process in institute	3.25

Student's Feedback - Teaching – Learning and Evaluation

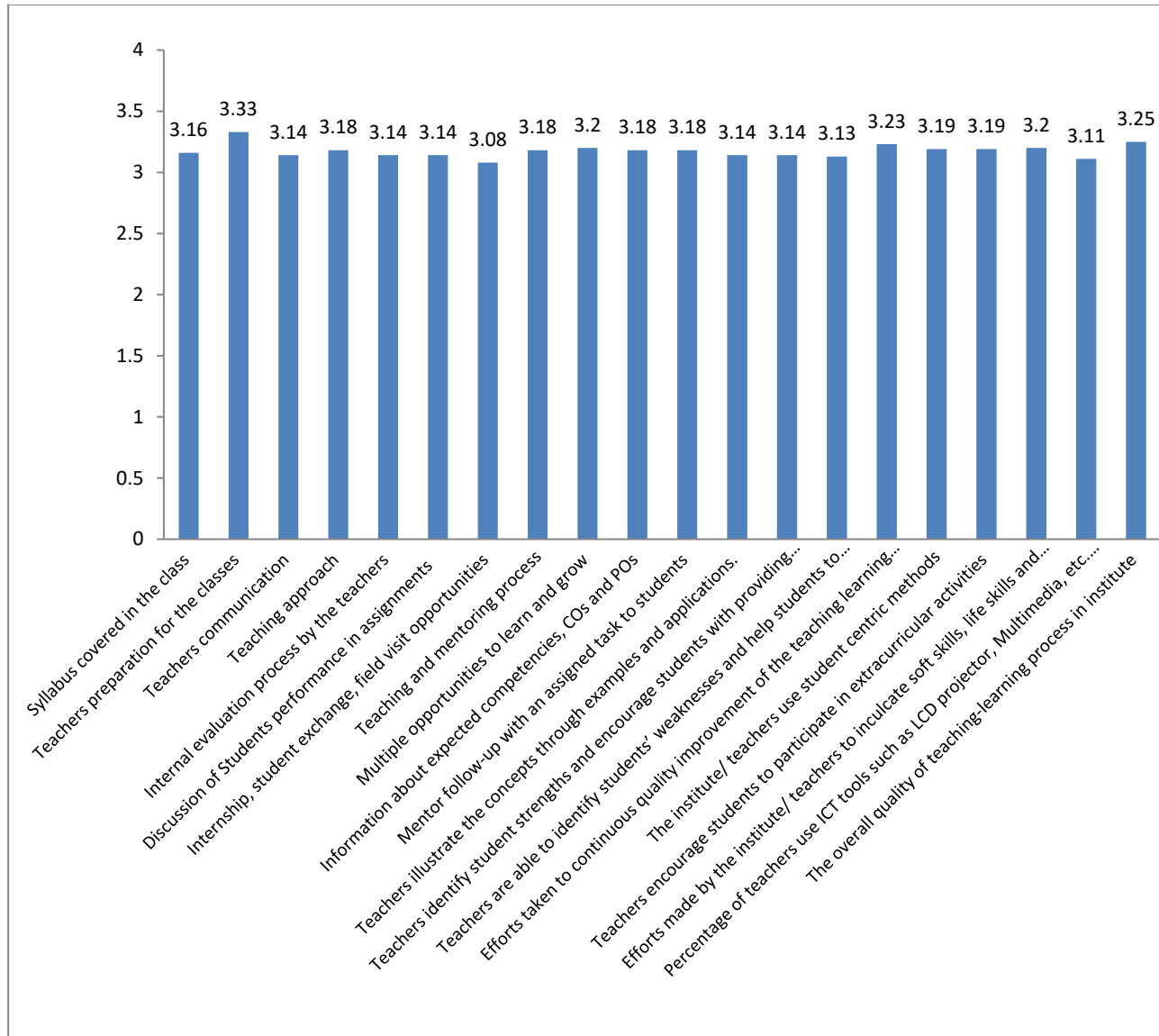


Fig: Student's Feedback on Teaching – Learning and Evaluation

5. Action Taken Report

S. No	Question	% of Response	Threshold	Action taken	Evidence
1	How much of the syllabus was covered in the class?	100	7 % Fair and Poor	Faculty are informed to cover the 100 % syllabus. Due to covid-19 epidemic, all the faculties are trained to use ICT tools for delivery of lecture through online mode. Syllabus coverage was reviewed by HODs and Dean PMCS every month.	Faculty Academic Audit, Self-Evaluation Document submitted by the faculty and evaluated by Academic audit committee
2	How well did the teachers prepare for the classes?	100	7 % Fair and Poor	Teachers will prepare topics in-depth, real-time examples, problems with solutions taken to class room.	Course full stack submitted by the faculty
3	How well were the teachers able to communicate?	100	7 % Fair and Poor	The teacher's communication towards taking class and answering students' queries, motivating students is improved	% Student satisfaction on teachers communication in the class room
4	The teacher's approach to teaching can best be described as	100	7 % Fair and Poor	Effective teaching methods are adopted	Faculty Academic Audit, Self-Evaluation Document submitted by the faculty and evaluated by Academic audit committee
5	Fairness of the internal evaluation process by the teachers.	100	7 % Fair and Poor	Faculty are interested in explaining with subject oriented examples, very fair in correcting internals (CIE) and externals (SEE) The evaluation process and transparency in the system is well received by the students	Scanned evaluated answer scripts are made available to students through CMS login.
6	Was your performance in assignments discussed with you?	100	7 % Fair and Poor	All the faculties are instructed to discuss student's assignment in the class	Assignment marks available in student logins
7	The institute takes active interest in promoting internship, student exchange, field visit opportunities for students.	100	7 % Fair and Poor	The Institute inculcates life-long learning and innovation abilities among the students through all the B.Tech students to undergo internship / Field Project (FP) / Field Practicum (FP) / Industry In-plant Training (IIT).	% of Student participation in internship/field project programmes
8	The teaching and mentoring process in your institution	100	7 % Fair and Poor	IARE has constituted a Student Counselling System for creating a platform for students to interact and share	Student counseling information in Green Book


	facilitates you in cognitive, social and emotional growth.			their problems with the institute authorities at various levels. The institute involves faculty who act as mentors, guides, and sometimes local guardians of students. These faculty members interact with students and try to cater to their emotional and intellectual needs. They also guide students on their career prospects	
9	The institution provides multiple opportunities to learn and grow.	100	7 % Fair and Poor	IARE Student Council is run by students for students, directing all suggestions and concerns to the appropriate people. All class representatives are the members of student council. Class representatives are identified based on the merit of the head of the departments every ODD semester.	Student clubs -Events/ activities organized under different categories
10	Teachers inform you about your expected competencies, course outcome and programmer outcomes	100	7 % Fair and Poor	All teachers informing the competencies about Course outcomes and Program outcomes	OBE booklet
11	Your mentor does a necessary follow-up with an assigned task to you.	100	7 % Fair and Poor	Teacher-in-charge of all departments are informed to assign mentors/guides to each student in the department. Mentors are required to prepare report of all meetings and issues raised and addressed by students and the same is to be submitted to the Principal through HOD.	Green book information
12	The teachers illustrate the concepts through examples and applications.	100	7 % Fair and Poor	Faculty are instructed to teach through demo classes and case studies.	Self-Evaluation Document submitted by the faculty and evaluated by Academic audit committee
13	The teachers identify your strengths and encourage you with providing right level of challenges.	100	7 % Fair and Poor	Every individual teaching faculty identifies and encourages the students based on their strength to participate in various activities	Student participation in BoS, IQAC committee, Student council, Paper presentations, participation in national / international competitions

14	Teachers are able to identify your weaknesses and help you to overcome them.	100	7 % Fair and Poor	The mentors identify the slow learners and counsel them to overcome it	Slow learner identification and Remedial classes conducted
15	The institution makes effort to engage students in the monitoring, review and continuous quality improvement of the teaching learning process.	100	7 % Fair and Poor	ICT tools to deliver lecture, real time Demo for practical courses, project-based learning, etc.	Online classes conducted through Zoom platform
16	The institute/ teachers use student centric methods, such as experiential learning, participative learning and problem-solving methodologies for enhancing learning experiences	100	7 % Fair and Poor	students are encouraged to participate in student competitions, hackathons, technical paper presentations etc. which provide scope for learning beyond the prescribed syllabus. The institute provide facilities for the students for supporting self-learning Free Online Educational Resources: e-Learning / Early Learning Readiness Video Lectures and Instructional Material for all Courses	CDC activities, Akanksha LMS portal
17	Teachers encourage you to participate in extracurricular activities.	100	7 % Fair and Poor	Students are encouraged to participate in National level competitions	% of Student Participation in competitions
18	Efforts are made by the institute/ teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work.	100	7 % Fair and Poor	Training classes and awareness program were conducted by the institute to inculcate soft skills, life skills to face the society with confidence	Activities conducted by Career Development Center
19	What percentage of teachers use ICT tools such as LCD projector,	100	7 % Fair and Poor	The faculty members are using ICT tools and are more inclined towards modern tools and increased to deliberate on innovative teaching practices.	One of the teaching aid as PPT, usage of Zoom ,Digital slate

	Multimedia, etc. while teaching				
20	The overall quality of teaching-learning process in your institute is very good.	100	7 % Fair and Poor	By integrating technology into the classroom, which help the students learn better and faster. By improving students centric learning	Student satisfaction survey report

Action taken on Observation / Suggestions

S. No	Verbatim Response / Suggestion	Action taken	Evidence
1	Need more awareness about job related scenario and improving employability	Placement Training scheme improved year after year with current trends in industry and on consultation with experts to provide a holistic development of student's employability at par with current scenario	Skill programs conducted by CDC
2	There should be more classes about improving soft skills	Institute provides Soft Skills Development is an integral part of the all-round development of the student, for that a Skill Development Division, a unique and dedicated department, whose sole purpose is to fill the vacuum between student and Industry has been crafted.	Skill programs by CDC
3	Better course resources	In order students equipped with better course resources Early Learning Readiness Videos (ELRV) by faculty of IARE are made available to the students, through YouTube or through e-learning Content Management Portal i.e., AKANKSHA, indigenously developed by the Institute.	ELRV videos in IARE YouTube channel


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