INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

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REPORT ON
STUDENT SATISFACTION SURVEY
Academic Year: 2019 - 2020

CONTENTS

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 4440 students responded to Student Satisfaction Survey. The analysis of the survey conducted shows that, 3304 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	487
2	B. Tech. Computer Science and Engineering	992
3	B. Tech.-Information Technology	408
4	B. Tech.-Electronics and Communication Engineering	1013
5	B. Tech.-Electrical and Electronics Engineering	407
6	B. Tech.-Mechanical Engineering	468
7	B. Tech.-Civil Engineering	463
8	M. Tech. Computer Science and Engineering	14
9	M. Tech. Embedded Systems	14
10	M. Tech. Structural Engineering	33
11	M. Tech. Aero Space Engineering	16
12	M. Tech. Computer Aided Design and Manufacture	17
13	M. Tech. Electrical Power Systems	9
14	Master of Business Administration	99
	Total	**4440**

4. Analysis of the Student Satisfaction Survey

Student's Feedback - Teaching – Learning and Evaluation

S. No	Description	Average
1	Syllabus covered in the class	3.46
2	Teacher's preparation for the classes	3.3
3	Teacher's communication	3.23
4	Teaching approach	3.03
5	Internal evaluation process by the teachers	3.3
6	Discussion of Students performance in assignments	3.12
7	Internship, student exchange, field visit opportunities	3.07
8	Teaching and mentoring process to facilitates cognitive, social and emotional growth	3.15
9	Multiple opportunities to learn and grow	3.18
10	Information about expected competencies, course outcomes and program outcomes	3.07
11	Mentor follow-up with an assigned task to students	3.1
12	Teachers illustrate the concepts through examples and applications.	3.18
13	Teachers identify student strengths and encourage students with providing right level of challenges	3.04
14	Teachers are able to identify students' weaknesses and help students to overcome them.	2.96
15	Efforts taken to Students in monitoring, review and continuous quality improvement of the teaching learning process.	3.09
16	The institute/ teachers use student centric methods, such as experiential learning, participative learning and problem-solving methodologies for enhancing learning experiences.	3.08
17	Teachers encourage students to participate in extracurricular activities	3.06
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	3.11
19	Percentage of teachers use ICT tools such as LCD projector, Multimedia, etc. while teaching.	3.35
20	The overall quality of teaching-learning process in institute	3.14

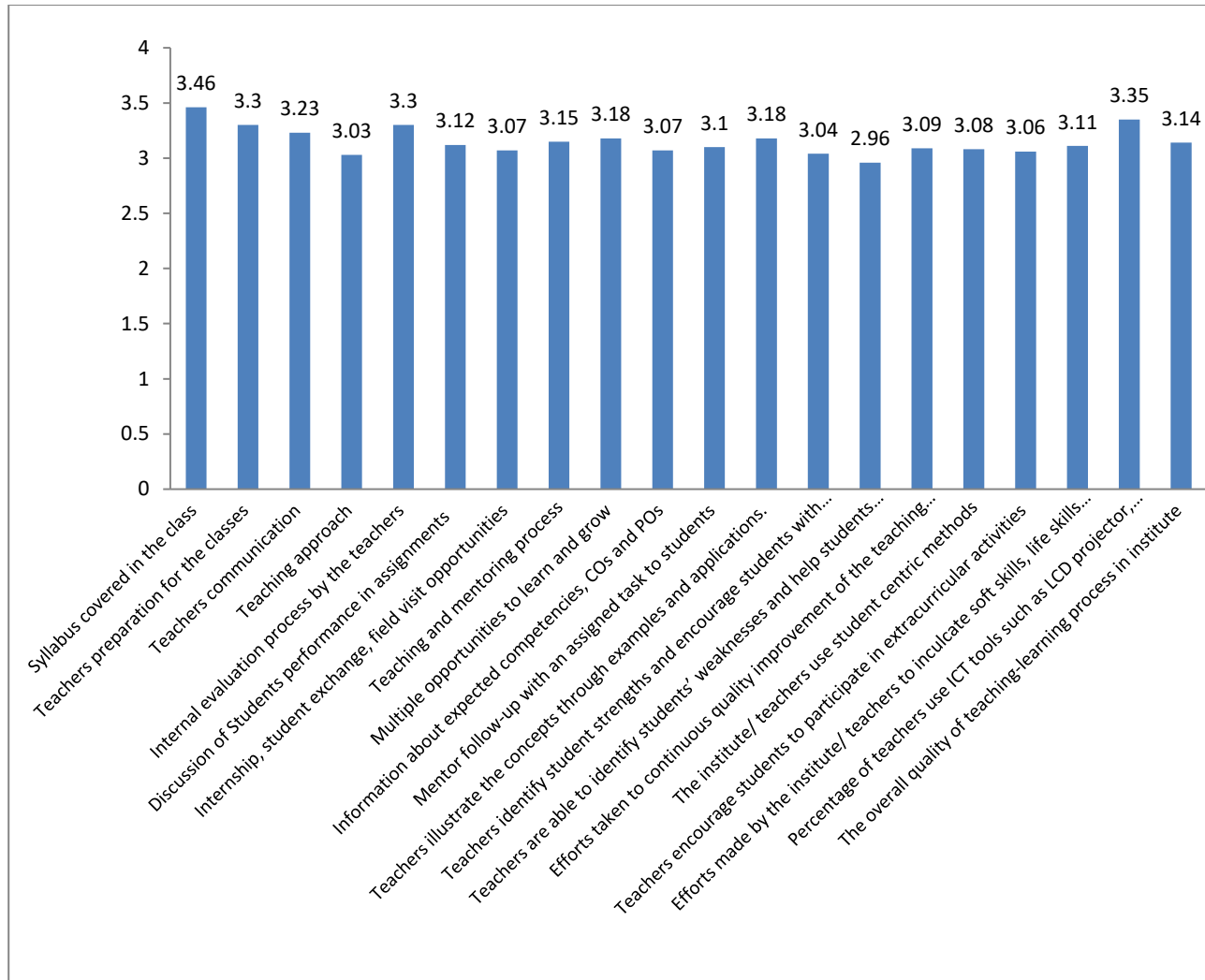## Student's Feedback - Teaching – Learning and Evaluation

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?	99.4	8 % Fair and Poor	As a result of the covid-19 epidemic 75% of the course is covered in class, and the remaining 25% is covered through online platform.	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?	99.4	8 % Fair and Poor	Faculties are instructed to join NPTL courses and preparing lecture notes before starting the academic year. Feedback on effectiveness of teaching and syllabus completion is received in CR meetings with students and coordinators	Couse Descriptors, Lecture Notes, PPTs, question banks for respective courses
3	How well were the teachers able to communicate?	99.4	8 % Fair and Poor	Faculties are advised to teach every concept in a very clear manner from the basic level with suitable examples. Last 10 minutes of every class is highly recommended to query session by the faculty.	As Per Student Satisfaction Survey students were Satisfied
4	The teacher's approach to teaching can best be described as	99.4	8 % Fair and Poor	All the faculties will be given chance to attend FDP, workshop and training programs to experience the modern and innovative methods of teaching learning process and to update the courses knowledge in the emerging levels.	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.	99.4	8 % Fair and Poor	Each semester, two internals will be conducted. Each time, the evaluation process is transparent, and students have access to answer papers and the option of revaluation	Scanned evaluated answer scripts are made available to students through Samvidha Campus Management Portal.
6	Was your performance in assignments discussed with you?	99.4	8 % Fair and Poor	Obviously, our faculties are instructed to discuss assignment topics with the students in the class for better learning outcome	Assignment/concept videos/tech talks schedule and marks available in student logins
7	The institute takes active interest in promoting internship, student exchange, field visit opportunities for students.	99.4	8 % Fair and Poor	Students' internship is part of the curriculum and many industrial visits are arranged based on the area of specializations and signed Nationwide and international MOUs with industry and	% of Student participation in internship/field project Programmes. Student Internship Abroad Details

				academia to promote students' knowledge augmentation	
8	The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth.	99.4	8 % 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.	Student counseling information in Green Book
9	The institution provides multiple opportunities to learn and grow.	99.4	8 % Fair and Poor	Institution provides extracurricular activities, co-curricular activities, placement trainings, skill development training, besides academic	Events/ activities organized under different categories
10	Teachers inform you about your expected competencies, course outcome and programmer outcomes	99.4	8 % Fair and Poor	Faculties are advised/instructed to explain the COs and POs to the students beginning the semester.	OBE booklet
11	Your mentor does a necessary follow-up with an assigned task to you.	99.4	8 % Fair and Poor	The Mentor/Tutor organizes two meetings per month. These meetings are conducted to discuss about the Academic performance of the student and get feedback from the students on the various academic aspects such as distribution of study materials, question papers, syllabus completion, difficulties faced by students etc.	Green book information
12	The teachers illustrate the concepts through examples and applications.	99.4	8 % Fair and Poor	IARE provide the opportunity for active experimentation and concrete experience through a variety of carefully designed projects-based learning experiences, problem-based learning experiences, game-based learning experiences, laboratory experiments, service-based learning and other activities.	Self-Evaluation Document submitted by the faculty and evaluated by Academic audit committee
13	The teachers identify your strengths and	99.4	8 % Fair and Poor	The institute involves faculty who act as mentors, guides, and sometimes local	Student participation in Bos, IQAC committee, Student council, Paper

				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. The functioning of the Student Counselling System of the institute	presentations, participation in national / international competitions
14	Teachers are able to identify your weaknesses and help you to overcome them.	99.4	8 % Fair and Poor	Special / Remedial classes are conducted to the slow learners. And also conduct more number of assignments to overcome their weakness	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.	99.4	8 % Fair and Poor	Students are involved academic and non academic committees of the institution.	Students participation in CR meetings, BoS, IQAC committee, Student council
16	The institute/ teachers use student centric methods, such as experiential learning, participative learning and problem-solving methodologies for enhancing learning experiences	99.4	8 % Fair and Poor	Institute provides the opportunity for active experimentation and concrete experience through a variety of carefully designed projects-based learning experiences, problem-based learning experiences, game-based learning experiences, laboratory experiments, service-based learning and other activities.	Center for Learning and Educational Technologies (CLET) of IARE design and teach FIVE ExL power skills courses,
17	Teachers encourage you to participate in extracurricular activities.	99.4	8 % Fair and Poor	Encourage the students to participate in extracurricular activities. Students are advised to join various professional bodies like IEI, IEEE, ISTE, ACM, CSI, SAE, etc.	Professional society memberships and activities Student club activities
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.	99.4	8 % Fair and Poor	Training on soft skill, communication skill and personal development given to students during off college hours. Mock interview was conducted and pre placement training were given.	Career Development Center activities
19	What percentage of teachers use ICT tools such as	99.4	8 % Fair and Poor	The faculty members are using ICT tools and are more inclined towards	One of the teaching aid as PPT, Digital slate

				modern tools and increased to deliberate on innovative teaching practices.	
20	The overall quality of teaching-learning process in your institute is very good.	99.4	8 % Fair and Poor	ICT tools and smart classes are used for effective teaching. Industrial visits arranged to students to get practical knowledge; good number of guest lectures arranged to each subject knowledge	Student satisfaction survey report

Action taken on observation / suggestions

S. No	Verbatim Response/Suggestion	Action taken	Evidence
1	More number of slides should be added in the PPT.	Faculty were instructed to prepare power point presentations for a lecture with at least 20 slides. The slides should include quick review of previous class, slides with topic of the day and glance of next class. The slides should include examples with which the students can relate topic in general scenario.	After lecture, that class PPTs available to students through CMS.
2	We just want to see the internal evaluation marks for each and every question so that we can know our mistakes where we did it in the exam.	Scanned copies of answer sheets are made available for students in their CMS login for a stipulated time after the valuation by examiner, within in which they can approach CoE for revaluation of papers if they are not satisfied.	Scanned copies are made available to students through CMS login.
3	Effective usage of ICT tools.	The faculty are requested to include ICT tools and techniques in their teaching, faculty are encouraged to add videos in their presentations for quick reference and for the benefit of the students.	Classrooms are updated to smart classrooms containing TVs

PRINCIPAL