



YEARLY STATUS REPORT - 2020-2021

Part A

Data of the Institution

1.Name of the Institution		IES COLLEGE OF ENGINEERING
• Name of the Head of the institution	Dr. S. Brilly Sangeetha	
• Designation	Principal	
• Does the institution function from its own campus?	Yes	
• Phone no./Alternate phone no.	04872309966	
• Mobile no	9787814100	
• Registered e-mail	mail@iesce.info	
• Alternate e-mail	principal@iesce.info	
• Address	IES COLLEGE OF ENGINEERING P.O. CHITILAPPILLY THRISSUR	
• City/Town	THRISSUR	
• State/UT	KERALA	
• Pin Code	680551	
2.Institutional status		
• Affiliated /Constituent	AFFILIATED	
• Type of Institution	Co-education	
• Location	Rural	

• Financial Status	Self-financing				
• Name of the Affiliating University	APJ Abdul Kalam Technological University				
• Name of the IQAC Coordinator	Ms. Padmapriya V K				
• Phone No.	04872309966				
• Alternate phone No.	04872309965				
• Mobile	9847054363				
• IQAC e-mail address	iesiqac@iesce.info				
• Alternate Email address	mail@iesce.info				
3.Website address (Web link of the AQAR (Previous Academic Year))	http://iesce.info/pm_agar				
4.Whether Academic Calendar prepared during the year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	http://iesce.info/uploads/userfiles/Academic%20Calendar20-21(1).pdf				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	B+	2.65	2017	18/09/2017	17/09/2022
6.Date of Establishment of IQAC			20/06/2016		
7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,					
Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount	
NIL	NIL	NIL	0	0	
8.Whether composition of IQAC as per latest NAAC guidelines			Yes		
• Upload latest notification of formation of IQAC			View File		

9.No. of IQAC meetings held during the year	2	
<ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? 	Yes	
<ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded	
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	No	
<ul style="list-style-type: none"> If yes, mention the amount 		
11.Significant contributions made by IQAC during the current year (maximum five bullets)		
<p>Bridge course for first years Faculty Development Programme on "Effec methods on Teaching Learning Process" International Conference on "Multidisciplinary Engineering Science Information Technology" Arts f Day Special Coaching classes for Slow learners KTU internal external</p>		
12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year		
Plan of Action	Achievements/Outcomes	
Faculty Development Programme	One day faculty development programme was conducted in methods on Teaching Learning Process" on 26/7/20	
13.Whether the AQAR was placed before statutory body?	Yes	
<ul style="list-style-type: none"> Name of the statutory body 		
Name	Date of meeting(s)	
Academic Council	18/03/2020	
14.Whether institutional data submitted to AISHE		

Year	Date of Submission
2021	22/01/2021

15. Multidisciplinary / interdisciplinary

College Vision: IES College of Engineering strives to be an institution of repute to create competent engineering professionals endowed with innovation for nation building.

Mission:

M1: To achieve recognition from statutory bodies and become one of the top ranking institution in the country

M2: To provide technological, communication, aptitude and life skill training to enable the students to become successful professional.

M3: To promote innovation by encouraging students to initiate design and product development activities.

M4: To inculcate entrepreneurial attitude by providing necessary mentoring, training and guidance for students to establish start ups.

The vision of the institute is accomplished through its mission, which concentrate on grooming the students to become successful multidisciplinary professional in product design, development and to start the start ups through the mentoring, guidance, technological, communication, aptitude and life skill training,

As part of the university syllabus and curriculum, the weightage is given with the integration of humanities and science with STEM in the curriculum offered for the programme.

Since the Institution is an affiliating nature, it follows the curriculum and syllabus offered by the University. the curriculum and syllabus provided by the university itself, offer flexible and innovative curricula that includes components like credit-based courses and projects in the areas of community engagement and service, environmental education, and value-based towards the attainment of a holistic and multidisciplinary education.

Our students were already undertaking projects keeping in mind to solve the pressing problems of the local community and also our NSS activities are planned in a such way that to address the solutions

of society's most pressing issues and challenges locally faced.

16.Academic bank of credits (ABC):

The institution is planned to fulfil the requirement of Academic bank of credits as proposed in NEP 2020, it is also planning to consider the learners should avail the benefit of multiple entries and exit during the chosen programme within the capacity of affiliating nature. Already the institution is collaborating with various organisation at local, national level and international level to offer various programs, seminars and webinars for the skill enhancement of the students community. the institution is ready to give opportunity to the needed students to do semester abroad program within the affiliating institutions capacity. the faculty members were encouraged to give feed back to frame and design the curriculum and syllabus framed by the university, the faculties are also encouraged to suggest and follow a textbook of updated nature, in selecting a reading material, free hand to choose an assignments and assessment based on the OBE.

17.Skill development:

The institutions IEDC, stimulates and supports scientific vigor of the students in designing and developing an innovative products by applying innovative ideas of students in their mind.

The students were encouraged to show their skills and also multidisciplinary talents of their innovation through the product display in the techfest program organised at college level.

The value based education is taught to the students community time to time since the college vision and mission itself valuing the importance of life skills.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

Arts and Culture were taken care by the college as part of the curriculum and calender released by the university, each academic year university has given a calender to conduct arts festival within the college campus. the students of various departments are participating the events organised by the college. it stimulates and motivates the students to concentrate on these performances on stage. Based on the individual performance record of the student, the corresponding student will get a prize and certifications and also based on the overall performance of the department, the department will get a winning trophy. the participating student will also get a activity point which will be considered as part of the

minimum activity points that should be earned by the students to clear the corresponding semester.

The official medium of instruction is in English, but if the student is difficult to understand the concept through English medium of instruction, the practice of teaching and assisting the students in local mother tongue is also happening. Those students will be called to the faculty room and they will be assisted by the respective subject handling faculty member to teach the portions in regional languages, which enable them to understand the concepts clearly and to appear & write the continuous assessment examinations without much difficulty.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

IES has accepted and adopted Outcome Based Education, which is a student-centered instruction model that focuses on measuring student performance through outcomes.

Outcomes include knowledge, skills and attitudes. Program Outcomes, Program Specific Outcomes and Course Outcomes are evaluated to measure the knowledge, skills, and behavior of students for the continuous quality improvement of each Course and Programs as a whole using the below-mentioned procedure.

Program educational objective, Program outcome, program specific outcome and course outcome are all measured using the guidelines set by the KTU which includes both direct assessment and indirect assessment.

Direct attainment: Each course is evaluated based on direct and indirect assessment tools. Direct assessment tools include internal exams, assignments and university examinations

Indirect Method: Program exit survey, Alumni feedback, and Employer survey

POs and PSOs are calculated by using Direct and indirect tools. PO/PSO direct attainment calculations are based on the CO attainment of each course and the CO-PO or CO-PSO matrices that have been developed for each course. Finally, overall direct attainment of each PO/PSO is taken as the average value of PO/PSO attainment of all the courses.

PO/PSO indirect attainments calculated from program exit survey, alumni survey and employer survey. In order to calculate the overall

attainment of each PO, a weightage of 80% has been given for DIRECT method and 20% for INDIRECT method.

Graduate Attributes drafted and accepted in the Washington Accord are identified as Programme Outcomes of the Engineering Degree Course by the NBA and we follow the same.

Apart from these POs, our college has clearly stated Programme Specific Outcomes and Course Outcomes. KTU, the University to which we are affiliated, publish well defined Course Outcomes along with the syllabus of each Course from 2019 onwards and our college only has to make marginal changes to it.

Ultimate care is taken by the concerned staff members while redrafting Course Outcomes. These Outcomes are reviewed and suggestions are given by the Department IQAC which is constituted in every Department with specific objectives.

Our college has various methods for communicating the Learning Outcomes. Teachers spend some time every day, at the beginning of the class, to explain the Learning outcomes.

20.Distance education/online education:

Blended learning and usage of advanced technological tools such as wifi enabled class, projectors and computer assisted learning activities are happening as a regular affair. The faculty members were asked to use ICT tools as part of teaching learning activities in class rooms. These combination of teaching learning activities motivated the students to listen and perform better in their class rooms without any distractions in learning.

Extended Profile

1.Programme

1.1

8

Number of courses offered by the institution across all programs during the year

File Description	Documents
Data Template	View File

2.Student

2.1 262

Number of students during the year

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2 150

Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year

File Description	Documents
Data Template	View File

2.3 187

Number of outgoing/ final year students during the year

File Description	Documents
Data Template	View File

3.Academic

3.1 72

Number of full time teachers during the year

File Description	Documents
Data Template	View File

3.2 0

Number of sanctioned posts during the year

Extended Profile

1. Programme

1.1	8
Number of courses offered by the institution across all programs during the year	

File Description	Documents
Data Template	View File

2. Student

2.1	262
Number of students during the year	

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2	150
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	

File Description	Documents
Data Template	View File

2.3	187
Number of outgoing/ final year students during the year	

File Description	Documents
Data Template	View File

3. Academic

3.1	72
Number of full time teachers during the year	

File Description	Documents
Data Template	View File

3.2	0
Number of sanctioned posts during the year	
File Description	Documents
Data Template	View File
4.Institution	
4.1	78
Total number of Classrooms and Seminar halls	
4.2	242.27
Total expenditure excluding salary during the year (INR in lakhs)	
4.3	390
Total number of computers on campus for academic purposes	

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

IES College of Engineering is affiliated to APJ Abdul Kalam Technological University (KTU), Thiruvananthapuram from 2015 onwards and before that it was affiliated to University of Calicut, Kerala. Hence, presently, the Engineering curriculum prescribed by the APJ Abdul Kalam Technological University is being followed. Each and every course in the curriculum has course objectives and course outcomes. Before imparting courses, the course outcomes are mapped with PO's and PSO's. Generally, six theory courses and two laboratory courses are taught in every semester.

- Effective delivery of the curriculum starts with the preparation of the academic calendar.
- The Academic Calendar serves as an information source and planning document for students and faculty. Based on the KTU academic calendar, a college calendar is prepared at the beginning of each semester with a plan of conducting

examinations, co-curricular and extracurricular activities of the college. Each department prepares a department wise academic calendar listing the plan of the activities of the department.

- A time table committee is formed, in this meeting, with representatives from all departments and they draw up detailed timetable which efficiently deploys the units of time for academic and co-curricular purposes like theory, practical, tutorial, life-skill, value education and add-on classes thereby ensuring a balance between the different types of engagement a student is expected to participate in. Time table is prepared considering the individual choice, preferences and competence, as far as possible, for effective curriculum delivery.
- The teaching plans are prepared which consist of lesson plan, question bank, tutorial/assignment questions, lab manuals and teaching note. Faculty members take utmost care to complete the syllabus in time.
- Lesson plan is prepared with well-defined course outcomes, subject notes, learning materials like PPTs etc. Classes are conducted as per the lesson plan.
- Course Committees and Class Committees are constituted which meet at least thrice in a semester-the first at the beginning of the semester, the second and third after the first and the second internal tests respectively.
- Course Committee - In the case of common courses for B.Tech (such as Mathematics, Physics, Chemistry etc.) a course committee is constituted by the Principal for each course. The chairman shall be a senior faculty member, not offering the course. All faculty members handling the course for various classes and 5 student representatives among different classes are the members. These committees will monitor the conduct of the course, adherence to the course plan, time schedule, completion of the syllabus, standards of internal tests and evaluation process. At the end of the semester, the committee will meet without the student representatives to review the conduct of the course and finalise the internal assessment marks and approve them.
- Course delivery as per lesson plan and completion of syllabus is monitored by HOD.
- Students' feedback is taken twice in the semester for teaching learning process (completion of the curriculum, redressal of grievances relating to evaluation etc.)
- Continuous assessment and progress of Lab work is done according to the manual for conducting lab experiments.
- Meetings with the Parents or class PTA are called after the

result analysis of every semester to discuss students academic progress and other matters

- Mentoring system is in place with around a maximum of 15 students assigned to one mentor faculty

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	http://iesce.info/uploads/userfiles/Academic%20Calendar20-21(1).pdf

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

Before the beginning of every academic year, KTU announces detailed academic calendar based on the guidelines of AICTE, taking into account of the mandatory number of working days (72 days per semester). The plan for teaching learning process is organized by the college academic council at the beginning of every semester. IESCE publishes an internal academic calendar incorporating its academic and non academic activities in line with the KTU academic calendar. The Head of the Departments concerned conducts meeting with all the faculty members and allots subjects based on their interest / proficiency. Then the timetable is prepared and circulated to the students. The class and course committees are formed with students also as members. The faculty members prepare the Course Plan at the beginning of the semester. The theory classes and practical sessions will be carried out according to the course plan prepared. Institution will see that the progress of academic activities are according to the course plan and will compensate for the unexpected holidays with extra working hours. The student evaluation of teachers is a regular feature done online through linways, carrying out , after first series and end of the semester regularly, in addition to direct feedback within class hours. Student's feedback is consolidated by the HOD and presented to the higher officials for follow up action. Apart from this, KTU external auditors, and HODs interact with the students to obtain their feedback. The feedback received will be discussed with the teachers concerned and if necessary, they will be counseled and advised by the college authorities. For theory, as well as practical subjects internal evaluation is conducted by the internal examination committee. Internal examinations are conducted as per academic calendar for all semesters. Two sets of question papers scrutinized by HOD for each

subject are collected one week prior to the commencement of the examination by DCOE's (Department Controller of Examinations) of concerned departments and forwarded to the main examination cell. The absentee's statement for each examination is documented by the respective DCOE's. The answer sheets will be provided to the students after evaluation.

After the publication of the results of all series examinations, subject wise, weak students are identified and appropriate remedial measures are initiated. Tutorials and assignments, presentation of seminars , projects and evaluation of designs / mini projects, are scheduled as per the academic calendar. Internal marks are finalized and published based on series test marks, assignment marks and attendance of the students, as per the guidelines from the university.

Students securing minimum internal marks as prescribed by the university (KTU 2015 Scheme, 2019 Scheme) are eligible for attending university examination. Ineligible students are required to attend summer course/ course repeat to acquire eligibility for attending university examination. Apart from securing minimum pass mark in the university examination students are also required to obtain activity points by participating in various co-curricular and extracurricular programmes as per the guide lines of university for completing their degree course.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	http://iesce.info/pm_acal

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year.

Academic council/BoS of Affiliating University

Setting of question papers for UG/PG programs

Design and Development of Curriculum for Add on/ certificate/ Diploma Courses

Assessment /evaluation process of the affiliating University

C. Any 2 of the above

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

8

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

37

File Description	Documents
Any additional information	No File Uploaded
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

100

File Description	Documents
Any additional information	View File
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

IES College of Engineering is affiliated to KTU, as we follow the University's Curriculum and incorporate cross-cutting themes such as Gender, Environment and Sustainability, Human Values, and Professional Ethics into the Curriculum and further, impart these through various events and workshops. Throughout the academic year, events are planned with this goal in mind, to produce a positive resonance in their academic and societal commitment.

Gender

IESCE recognises the importance of gender equality and has a thriving and active Women Empowerment Cell has been working tirelessly to raise awareness about gender-based issues and to provide a welcoming and supportive atmosphere for girls' entire development. IESCE also hosts seminars on socially significant topics such as gender equality and gender diversity on women's development, women's health issues, the role of women in environmental conservation, and self-defense training for women.

Environment and Sustainability

The curriculum in KTU includes courses such as Design and Engineering, Sustainable Engineering and Sustainable Energy are some of the areas covered.

IESCE arranges frequent awareness programmes using posters, models, PPT presentations, talks, and seminars to raise awareness and comprehension among the general public about the need of protecting our environment and promote an ecological equilibrium in the environment. NSS and other cells such as the Literary and Science Club arrange a variety of environment-related events such as Earth Day, World Environment Day, tree planting, flood relief, Clean India-Swachh Bharat Campaign, and so on.

Professional Ethics and Human Values

KTU has integrated courses like Life Skills, Professional Ethics, Constitution of India in the curriculum in order to promote Human Values and Professional Ethics among engineering graduates. These papers largely discuss the intricacies of Human Values and Ethics, as well as how to apply them in everyday social and professional situations. IESCE provides an induction programme for new entrants to help them adjust to their new surroundings, improve awareness, sensitivity, and understanding of themselves, others, society, and nature. Students can acquire and assimilate professional ethics through participating in extended programmes, workshops, and attending guest lectures. A well-defined code of ethics and conduct is drafted and publicized in the College .

File Description	Documents
Any additional information	No File Uploaded
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

24

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	No File Uploaded
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

33

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders
Students
Teachers
Employers
Alumni

E. None of the above

File Description	Documents
URL for stakeholder feedback report	Nil
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	No File Uploaded
Any additional information	View File

1.4.2 - Feedback process of the Institution may be classified as follows

B. Feedback collected, analyzed and action has been taken

File Description	Documents
Upload any additional information	View File
URL for feedback report	http://iesce.info/pm_ssur

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

262

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

7

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

Considering the significance of the process, the College has adopted a system, proven elsewhere, of identifying slow learners and advanced learners. We used to identify and classify the slow and advanced learners by their performance in the internal tests and the University examinations. As we came to realize the importance and the impact of starting the process before the commencement of the programme

The Tutor who becomes so intimate with their wards can easily identify their problems and find solutions. The students with major psychological deviations are referred to the College Counselor.

We give emphasis on improving the performance of slow learners by providing remedial programmes which are conducted outside regular classes.

Activities for the improvement of Slow Learners

- Remedial Classes are conducted after regular teaching hours to assist slow learners.
- Students with psychological problems are identified by

tutors and referred to the college Counsellor.

- Personality Development sessions are conducted to motivate and build confidence in students.
- Peer learning is encouraged within the slow learners so that the students support and help each other in the learning process.

The major objective of this program is to make them competent and self-confident to face the exams and reduce the drop out ratio

Activities for Advanced Learners:

- Learners are encouraged to attend Seminars, Workshops and Technical Exhibitions to gain knowledge on the latest developments.
- Names & photos are published in Social Media & Website.
- Special Skills/Interests are identified guided and encouraged.
- The students are motivated to register for online courses like NPTEL/SWAYAM and also to participate in Industry oriented Add -On courses. Many students have completed the MOOC Course with top grades
- Students with Entrepreneurial skills are encouraged to have Startups by the College as well as IEDC center.
- Students with Technical Interest have formed IEEE Student Branch and actively participate in various programmes.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/2_2_1.pdf
Upload any additional information	View File

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
789	72

File Description	Documents
Any additional information	No File Uploaded

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

IES College of Engineering makes sure that student-centric methods are effectively used in regular academic practices as it makes the students more self-reliant and self-motivated. By applying these student-centric methods as far as possible, the institution strives to enhance the lifelong learning skills of students. IES College of Engineering encourages the staff members to use a variety of student centric methods, such as experiential learning, participative learning, problem solving methodologies etc. The staff members use the Linways software to upload course materials and references so that these are easily accessible to the students. Teaching aids like LCD projectors available in all departments are effectively used in the classroom to supplement the regular teaching. We motivate the students to do MOOC courses like NPTEL and Coursera. Multimedia teaching using PPTs is incorporated in the day to day teaching and this helps in right utilization of time by staff and enhances the student understanding of the subject.

Experiential Learning:

Engineering at IES takes you beyond the classroom, bringing relevant concepts to life and putting them to work through a variety of experiential learning opportunities. From student projects to undergraduate research, experiential learning provides the ability to apply concepts and theory in a real-world setting to truly learn how an engineer works.

Student Projects:

All undergraduate degree programs require a project as a statutory requirement for the completion of programmes. Good ones among these projects culminate in an TECHFEST, showcasing the exceptional talents of engineering students and their dedication to solving the world's most pressing problems.

The institution imparts the following experiential learning practices:

- Laboratory Sessions with advanced experiments
- Internship to expand the knowledge on market trends
- Add-on Courses on latest technologies
- Project development

Participative Learning:

These are some of the Participative Learning practices employed by the Institution:

- Tech Fest/Project Expo
- Technical Seminar Presentation
- Industrial Visit to get insight into the internal working atmosphere of industries
- Co-curricular & Extra-Curricular activities/contests to trigger self-confidence of the students
- NSS and extension activities

Problem-solving methods:

Practical Sessions to get Hands-on experience

- Tutorial Sessions
- Special Assignments
- Quiz Sessions

The institution is very keen on implementing innovative methods such as Google Classroom, to make the learning experience more effective and interesting. Students are highly motivated to take part in inter-collegiate, state level and national contests, value-added courses, Add-on programs, and extension activities for their holistic development.

The institution makes significant efforts to explore classrooms with ICT tools and e-resources, such as NPTEL videos, e-books, PPTs, etc which helps to easily transform conventional teaching process to student-centric process.

File Description	Documents
Upload any additional information	View File
Link for additional information	http://iesce.info/pm_AQAROtherDoc

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

Information and Communication Technology (ICT) in education is the mode of education that uses information and communications technology to support, enhance, and optimize the delivery of

information. It has shown that ICT can lead to an improved student learning and better teaching learning methods. Knowing these, IES College of Engineering encourage teachers to use ICT enabled teaching tools like PPT Presentation, Recorded Online videos, NPTEL lectures, Virtual Labs, Moodle, Google classrooms etc. An academic management system developed by Linways technologies is extensively used by the faculty for conducting the courses and uploading the resources useful for students. Faculty use Virtual lab for explaining Lab experiment in a systematic manner in this COVID Situation.

ICT enabled activities of the Institution:

- NPTEL(Swayam) Student chapter

NPTEL was started during the year 2019 in IES College of Engineering. The objective of this effort is to take the best teaching learning resources to all students. This is done through a platform that facilitates hosting of all the courses, taught in smart classrooms which can be accessed by anyone, anywhere at any time during this COVID situation. Faculty and students regularly take up MOOC courses offered by NPTEL to upgrade their knowledge.

- Coursera

Coursera student chapter in IES College of Engineering was started during 2020, which helped the students a lot during the lockdown period. Coursera Inc is a U.S.-based massive open online course provider founded in 2012 by Stanford University computer science professors Andrew Ng and Daphne Koller. Coursera works with universities and other organizations to offer online courses, certifications, and degrees in a variety of subjects.

- Linways

It is an education technology expert primarily focused in the higher education domain for providing academic management solutions for our institution. Since 2019, faculties, staffs and students are using Linways software.

- Google ACE Program

Google Associate Cloud Engineer program is an online training program offered by Google to develop cloud based skills among students. 25 of our students have successfully completed this

course.

- **Digital Library**

The Library provides access to e-journal packages like IEEE and ACE journals. Also have membership in National Digital Library.

ICT tools in the Institution:

ICT enabled classes are provided in which faculty can use LCD projectors for visualizing and demonstrating various concepts, theories and procedures in addition to the lecture using black board. Different materials used by the faculty for this purpose include power point presentations, video lectures available from NPTEL and other reliable sources. These materials are made available to the students for improving their learning process. Faculty also handles classes for students in smart classrooms. For the enrichment of the teaching learning process, different softwares are available in labs.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

67

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

67

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	No File Uploaded
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)**2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year**

5

File Description	Documents
Any additional information	No File Uploaded
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)**2.4.3.1 - Total experience of full-time teachers**

67

File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

The quality of question papers is ensured by a question paper scrutiny committee. Question papers for each subject are set to assess the attainment level of the course outcomes and it is ensured that the questions have Blooms' Taxonomy action verbs. The faculty should select levels (conceptual, analytical, etc.) of questions meeting COs so that the learning abilities of the whole class can be analyzed through the scores obtained against each question. Faculty members evaluate the answer scripts and publish marks within one week (Linways). The whole evaluation of answer scripts is solely based on the pre-planned scheme/ answer key. Students who have missed either the first or the second test can write the same with the consent of the faculty and the head of the department. Retest may be allowed to students, which shall be conducted soon after the completion of the second test, but before the end semester examination. After each series test, remedial classes of each course are conducted for slow learners, for academic improvement. The consolidated internal marks are published in the notice board and sufficient time is given to students to report errors.

File Description	Documents
Any additional information	View File
Link for additional information	http://iesce.info/uploads/userfiles/2_5_1.pdf

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

After every internal examination the students get an opportunity to view their evaluated answer scripts and may get the anomalies rectified, if any, in discussion with the faculty handling the course. If the students have any grievances regarding answer sheet evaluation they can approach the class advisor. By the direction of the head of the department another faculty who is expert in that subject is appointed for revaluation. The marks scored by the students in tests are published regularly after evaluation to maintain transparency. Two tests and a minimum of 2 assignments are considered for internal assessment marks. The internal assessment marks are published by the departments at the end of the semester. Along with the published marks, students are informed to submit grievances, if any, to the HOD with supporting

documents.HOD scrutinizes the cases and based on the merit, in consultation with the faculty concerned, recommends corrections, if any, to the original marks awarded to the student. These are conducted in a timely manner so as to submit the marks in the University portal according to the deadlines provided by the University.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Learning outcomes are statements that describe the knowledge or skills students should acquire by the end of a particular assignment, class, course, or program, and help students understand why that knowledge and those skills will be useful to them. They focus on the context and potential applications of knowledge and skills, help students connect learning in various contexts, and help guide assessment and evaluation.

Graduate Attributes drafted and accepted in the Washington Accord are identified as Programme Outcomes of the Engineering Degree Course by the NBA and we follow the same. Apart from these POs, our College has clearly stated Programme Specific Outcomes and Course Outcomes. KTU, the University to which we are affiliated, publish well defined Course Outcomes along with the syllabus of each Course from 2019 onwards and our College only has to make marginal changes to it. Ultimate care is taken by the concerned staff members while redrafting Course Outcomes. These Outcomes are reviewed and suggestions are given by the Department IQAC which is constituted in every Department with specific objectives

Our College has various methods for communicating the Learning Outcomes. Teachers spend some time every day, at the beginning of the class, to explain the Learning outcomes.

- POs are displayed prominently in many common spaces in the campus along with the Vision and Mission of the College.
- PSOs are displayed on boards in prominent places of the respective Departments.

- All these Learning Outcomes are displayed prominently in the College Website easily accessible to everyone.
- The POs and PSOs are disseminated in all the staff rooms, classrooms, library and laboratories.
- COs are also communicated to students in the Series Test question papers.
- Hard Copy of syllabi and Learning Outcomes are available in the college Library/ departments for ready reference to the teachers and students.

Each Course Outcome is mapped to Program Outcomes and Program Specific Outcomes in terms of their correlation. CO-PO & PSO attainment is calculated at the end of every semester and corrective measures are discussed to improve the attainment level. Course Outcomes of all courses, Program Outcomes and Program Specific Outcomes of all programs are listed in attachments.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	http://iesce.info/naac
Upload COs for all Programmes (exemplars from Glossary)	View File

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

IES has accepted and adopted Outcome Based Education which is a student-centered instruction model that focuses on measuring student performance through outcomes. Outcomes include knowledge, skills and attitudes. Program Outcomes, Program Specific Outcomes and Course Outcomes are evaluated to measure the knowledge, skills, and behavior of students for the continuous quality improvement of each Course and Programs as a whole using the below-mentioned procedure. Program educational objective, Program outcome, program specific outcome and course outcome are all measured using the guidelines set by the KTU which includes both direct assessment and indirect assessment.

Direct attainment: Each course is evaluated based on direct and indirect assessment tools. Direct assessment tools include internal exams, assignments and university examinations

Indirect Method: Program exit survey, Alumni feedback, and Employer survey

POs and PSOs are calculated by using Direct and indirect tools. PO/PSO direct attainment calculations are based on the CO attainment of each course and the CO-PO or CO-PSO matrices that have been developed for each course. Finally, overall direct attainment of each PO/PSO is taken as the average value of PO/PSO attainment of all the courses. PO/PSO indirect attainments calculated from program exit survey, alumni survey and employer survey. In order to calculate the overall attainment of each PO, a weightage of 80% has been given for DIRECT method and 20% for INDIRECT method.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	http://iesce.info/uploads/userfiles/Calculation%20of%20Learning%20outcome%2003-26-2022%2013_04_55.pdf

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

161

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	http://iesce.info/uploads/userfiles/Annual%20Report%2020-%2021.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

http://iesce.info/pm_ssur

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

0

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	No File Uploaded
List of endowments / projects with details of grants(Data Template)	No File Uploaded

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

3.1.2.1 - Number of teachers recognized as research guides

0

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	No File Uploaded

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

0

File Description	Documents
List of research projects and funding details (Data Template)	No File Uploaded
Any additional information	No File Uploaded
Supporting document from Funding Agency	No File Uploaded
Paste link to funding agency website	Nil

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

IES - IEDC

The Institute has an Innovation and Entrepreneurship Development Cell (IES IEDC) established in 2016. Innovation and Entrepreneurship Development Centre (IEDC) is a flagship initiative of Kerala Startup Mission to promote innovation and entrepreneurship among the student and academic fraternity in the educational institutions in the State of Kerala and considered as an umbrella programme that would play an instrumental role in fostering innovation culture in Academic institutions. It is a student's organization established in the institution devoted in promoting the spirit of entrepreneurship among themselves. It also aims to conduct ED courses for students with the help of Kerala Startup Mission ,MSME & EDI, India.

IES IEDC organizes seminars and various workshops periodically. Successful entrepreneurs are invited for interactive session with the students, for making the students understand business ethics and start-up procedures. The cell also organizes idea competition and mentor them to transform their ideas into reality Officials from different sectors are also invited as guest speakers for sessions to provide guidance on financial and registration aspects of startups.

VISION

To inculcate an innovation culture among the students , to create future entrepreneurs and position the institution, as a learning, innovation and entrepreneurial hub.

MISSION

To establish an innovation platform by introducing the State-of-the-art technologies through promoting innovation and entrepreneurship.

OBJECTIVES

- To promote an innovation driven entrepreneurship culture among the students
- To develop and promote commercially viable innovative products and solutions from the students.
- To promote a spirit of enterprise among budding technopreneurs

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

12

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

0

File Description	Documents
URL to the research page on HEI website	Nil
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	No File Uploaded
Any additional information	No File Uploaded

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

44

File Description	Documents
Any additional information	No File Uploaded
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year

8

File Description	Documents
Any additional information	No File Uploaded
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

To sensitize students to social issues, various programmes are conducted in our institution. Orientation programmes, competitions, blood donation camps are all given to students

during covid time. Anti tobacco classes, tree plantation, poshan maah programme, awareness session and observation of days are done

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

0

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	No File Uploaded
e-copy of the award letters	No File Uploaded

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

3

File Description	Documents
Reports of the event organized	View File
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year**3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year**

100

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration**3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year****3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year**

15

File Description	Documents
e-copies of related Document	View File
Any additional information	No File Uploaded
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year**3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year**

3

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	No File Uploaded
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

IES College of Engineering the flagship institution of IES Education City, is conceived and developed as a hi-tech technical training institution. Nestled in close proximity to Thrissur city and surrounded by the sylvan surroundings of the Vilangan Hills and lush green paddy fields. IES EDUCATION CITY is spread over more than 40 acres of verdant land at Chittilappilly. The college campus is located in a sprawling area of clean and green ambience and covers 1,23,186.31 m² (30.44 Acre) with a built-in area of 32,809 m², which provides a well balanced and soul enriching campus environment. IES is proud of having an overall strength of around 2000 students, a fleet of 50 buses and separate hostels for boys and girls with modern amenities. In addition, care and attention is given to provide modern classrooms, well equipped laboratories, modern well stacked libraries and seminar halls. Each department has seminar hall with addressing area, white board, LCD projector and internet connection. The laboratories are well equipped with multiple sets of apparatus. Latest configuration desktops and softwares are provided in computer labs. Availability of text books, reference books and journals in the library is ensured for the effective course delivery.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://iesce.info/uploads/userfiles/4_1_1.pdf

4.1.2 - The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

The institution gives due importance to extracurricular activities along with academic subjects for the all-round development of the students. students are retrained in sports and games under the guidance of qualified and specialized coaches. We provide sports facilities like Basketball, Volleyball, Badminton court, Table tennis, Football court, Cricket net in the campus. Some of our students have won medals in the University level competitions and students from our college were selected into the University team. Inter-department sports and games (Intra-murals) are conducted every year with great enthusiasm and participation. The Yoga space is provided inside the campus and the instructor is Suvardhan Guru. There is a fully fledged badminton court, table tennis board, volleyball court and basket ball court and spacious football court. Carrom, Chess., etc are conducted as part of sports and games. Cultural activities like Onam, Christmas are celebrated and various competitions are conducted as a part of the same. Painting competitions are conducted among the students and charity events are arranged incorporating students, teaching and non-teaching staff members.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://iesce.info/uploads/userfiles/4_1_2.pdf

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

10

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://iesce.info/uploads/userfiles/4_1_3.pdf
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

Nil

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	No File Uploaded
Upload Details of budget allocation, excluding salary during the year (Data Template	No File Uploaded

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

IESCE Central Library has been functioning since 2003 with a vision to develop, organize and preserve materials to meet the needs of present and future generations of students and scholars. It is sprawling over a carpet area of 8008.4 square feet with a two storied structure, and stands ahead of time with ample spaces for reading, reference and e-learning. Library developed an extensive collection of books, scientific and technical journals and electronic reference materials for satisfying the academic and research needs of the students and faculty. It houses around 20,000 books covering all disciplines of engineering, technology, and management. Library is automated by using library software Book Magic(version 5.0).Library has adopted open access system, and maintains OPAC. The transactions are carried out using barcode technology. The books are classified according to the DDC Scheme of Library Classification. A digital library with more than 10 multimedia systems is available for accessing the e-Journals, e-books, NPTEL, NDL videos and other education materials..

Accessibility to Students:

A campus wide access to various E-Resources through institute IP address has been facilitated in accordance with the KTU Consortium. Students can make use of all resources in the library like books, journals (hard copy and e-journals), CDs, 3DMS, NPTEL materials, intranet etc., for self learning.

Students can borrow books/ CD ROMS following the rules of the library. Through Web OPAC facilities users can search queries related to books, journals, CD/DVDs, project report and proceedings in the central library and users can also reserve the books which are on demand.

Special Services/ Facilities Offered:

- Online Public Access Catalogue
- Access to e-Journals/Books
- Digital Library of KTU/Calicut question papers
- Membership with NDL
- Enriched with vast and useful collections.
- Documents are fully bar-coded for fast and accurate transactions.
- The library has internet facility with LAN of 10 systems.
- Back volumes of journals (bound volumes) are available for reference.
- Newspaper clippings services.
- Inter Library Loan Facility.
- Display of new arrivals-books and periodicals
- Faculty publications & Research paper available in reference

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	http://iesce.info/uploads/userfiles/4_2_1.pdf

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources D. Any 1 of the above

File Description	Documents
Upload any additional information	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

10.12355

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

4.2.4.1 - Number of teachers and students using library per day over last one year

620

File Description	Documents
Any additional information	No File Uploaded
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

IES College of Engineering has Internet Facility for the benefit of students and faculties. The Internet service provider is BSNL (Bharat Sanchar Nigam Limited) with an Available Bandwidth of 100 Mbps Leased line through Fiber supported by backup RF Line (1:1 ratio). The college is Wi-Fi Enabled campus. Internet is accessible in all computer labs, classrooms, Library and department staffrooms

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://iesce.info/pdf/Auditedstatement2021.pdf

4.3.2 - Number of Computers

474

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

File Description	Documents
Upload any additional Information	View File
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)

122.07

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

- The college ensures optimal allocation and utilization of the available financial resources for maintenance and upkeep of different facilities by holding regular meetings of various committees constituted for this purpose as per the requirements in the interest of students.
- Maintenance of laboratories are as follows:-

The calibration, repairing and maintenance of sophisticated lab equipments are done by the technicians of related owner enterprises.

- Library:-
 1. The requirement and list of books is taken from the concerned departments and HOD's are involved in the process. The finalized list of required books is duly approved and signed by the Principal.
 2. Suggestion box is installed inside the reading room to take users feedback. Their continuous feedback helps a lot in introducing new ideas regarding library enrichment.
 3. To ensure return of books, 'no dues' from the library is mandatory for students before appearing in exams.
 4. Other issues such as weeding out of old titles, schedule of issue/ return of books etc. are chalked out / resolved by the library committee.

5. Book Magic software is used in the Library.

- Sports:-

Our college has a well equipped sports section. After class hours, regular practices are engaged by the students in college campus for team events and for athletics. Consequently, the college has won medals and cash prizes in various meets and different levels. Department of Physical Education keeps a well-maintained record of all the sports equipment. Procurement of new equipment is done by following a proper procedure. The equipment is purchased according to the requirements of the teams.

This Department is looked after by a qualified Physical Director, Mr. Shaju K Paul.

- Maintenance of Computers and IT facilities:

The office of the principal decides about purchasing necessary IT equipment as per recommendations received from the departments of the colleges and the administrative office of the college. IT facilities are maintained by computer skilled personnel of the college and they also take the responsibilities of periodic up-gradations of the IT resources.

- Classrooms and Building maintenance

Physical infrastructure which includes the classrooms, administrative block, toilets, auditorium, seminar room, etc. are maintained by the caretaker under the supervision of AO's. Housekeeping staff are hired on a regular basis to do the cleaning of the whole building. Cleaning is done once daily and Saturdays are days of deep cleaning and maintenance of the building.

The plumbers, electricians and carpenters are available on campus. Through service request forms available in the administrative office, these maintenance can be done. A non-teaching staff of every department will be assigned to report necessary maintenance issues of the concerned department.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://iesce.info/uploads/userfiles/SOP-R.pdf

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefitted by scholarships and free ships provided by the Government during the year

79

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	View File
Number of students benefitted by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefitted by scholarships, free ships, etc provided by the institution / non- government agencies during the year

135

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

A. All of the above

File Description	Documents
Link to Institutional website	www.iesce.info
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

374

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

374

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution has a transparent mechanism for timely redressal of student

A. All of the above

grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	No File Uploaded
Details of student grievances including sexual harassment and ragging cases	No File Uploaded

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

30

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

10

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	No File Uploaded
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

1

File Description	Documents
Upload supporting data for the same	View File
Any additional information	No File Uploaded
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) during the year

5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.

0

File Description	Documents
e-copies of award letters and certificates	No File Uploaded
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	No File Uploaded

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

All the departments have a student society, student chapters of various professional associations and various social clubs. Head of the Department, staff and students of the respective departments in consultation with the principal elect the office bearers. The student society of every department conducts National level events every year in which they organize various technical and non-technical events. The students are members and volunteers of the events. They get funding from concerned agencies and partial funding from the institution and by student membership and sponsorship. The College has various academic and administrative bodies that have student representatives. This representation helps them in their overall development. These bodies create more avenues for students to develop technical skills, update knowledge, develop their personality and motivate them to do social service. There are staff advisers to guide students in the smooth and efficient conduct of these activities. Following are the various committees and societies of the college. Academic and administrative committees: • Ethics committee • Women Empowerment Cell • Anti-Narcotic Cell • Hostel Committee • SC/ST Cell • Sports committee • National Service Scheme (NSS) • Entrepreneurship and Development Cell (EDC) • Cultural Committee

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/Activities%205_3_2.pdf
Upload any additional information	No File Uploaded

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

00

File Description	Documents
Report of the event	No File Uploaded
Upload any additional information	No File Uploaded
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

IES College of Engineering Alumni Association (IESCEAA), the alumni association of IES College of Engineering, was conceived with the help and co-operation of the Principal, and Management of the college. The alumni association is not registered. IESCEAA supports the institution in fields of Curriculum development, Placement and Training, social obligations, among others. IESCEAA provides financial support to programs intended for alumni/student development. IESCEAA Middle East Chapter consists of UAE, Oman, Qatar.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs) D. 1 Lakhs - 3Lakhs

File Description	Documents
Upload any additional information	No File Uploaded

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

Vision

IES College of Engineering strives to be an institution of repute to create competent engineering professionals endowed with innovation skills and entrepreneurial attitude for nation building.

Mission

M1.To achieve recognition from statutory bodies and become one of the top ranking institutions in the country.

M2.To provide technological, communication, aptitude and life skill training to enable the students to become successful professionals.

M3.To promote innovation by encouraging students to initiate design and product development activities.

M4.To inculcate entrepreneurial attitude by providing necessary mentoring, training and guidance for students to establish start ups.

The Governing Council of IES college of engineering, recognizes and uses the contributions of leadership throughout the organization for promoting student success, sustaining academic quality, integrity and continuous improvement of the institution. Through established governance structures, processes, and practices, the Governing Council, administrators, faculty, staff, and students work together for the benefit of the institution. Within participatory governance committees, the

process is to work with others in making decisions that are in the best interest of the College.

The institution follows a decentralized, democratic, and participatory method of governance with all stakeholders contributing actively in its administration. The Governing Council delegates authority to the Principal who in turn, shares it with the lower level in the hierarchy. The Heads of Departments, the Conveners of various committees and cells along with the staff representatives on higher decision-making bodies play an important role in determining the institutional policies and implementing the same. This system of governance is entirely in tune with the Vision and Mission of our Institution.

Strategic plan:

The Management of our Institution has drafted and approved a Perspective plan which is very much in tune with the vision and mission of the Institution. All the stakeholders, both external and internal, were consulted extensively before finalizing the draft of the Strategic Plan and each one had a unique perspective about what it would take for the organization to succeed.

Participation of Teachers:

IESCE ensures that the teaching community of the College is well represented in all the decision making bodies. In addition to their teaching responsibilities, teachers are members and conveners of the various committees constituted for the smooth and successful administration of the college. Governing Council, Academic Council, IQAC, Disciplinary Committee and Anti-ragging Cell, are some of the administrative and executive committees in which teachers are prominent members. Teachers are also engaged in actively mentoring the students to mould them into engineers of tomorrow. IESCE maximizes all its efforts in organization and administration to attain its Vision and Mission.

File Description	Documents
Paste link for additional information	http://iesce.info/about-iesce
Upload any additional information	View File

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

Our institution implements innovative practices in managing administrative and academic matters. We track the effectiveness in decentralized and participative management.

- **Management:** All types of stockholders have their participation in various decision making processes. Management accomplishes superlative independence to the Institution in all concerns of conclusions.
- **Administration:** The Institution's firm desire to provide quality education to the society is well supported by the administrative wing. They assure flawless functioning in various areas like administrative, financial accounting, proper auditing and maintenance.
- **Faculty Members:** Faculties ensure to maintain a healthy ambience in keeping good relationships among students, faculties and the society. Our college faculty prioritizes keeping professional ethics in education.
- **Departments:** The HOD along with faculties provides academic excellence following the vision and mission of the Institution. Each department excels in their arena of responsibilities to attain quality.
- **Non Teaching Staff:** Non-teaching keeps well-routine practices for the attainment of operational and strategic objectives.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/constitution%2020-21%2025-Mar-2022%2015-32-00.pdf
Upload any additional information	No File Uploaded

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

A clear set of goals, when combined with an honest appraisal of an organization's strengths and weaknesses, shows you what's important, what's relevant and what's actionable in your environment. A strategic plan is a written document that points the way forward for your institution. It both lays out your goals and explains why they're important. The strategic planning process also helps you uncover ways to improve performance. It can, for instance, spark insights about how to restructure the organization

so that it can reach its full potential.

Since the finalization of the plan and its approval by the Governing council, we have successfully executed many of those plans out of which some are elucidated here.

- To enrich the curriculum, additional courses were introduced.
- To make the teaching learning process more student centric, ICT tools were extensively used.
- Students were encouraged to participate in MOOC courses.
- E-Journals from IEEE and ASME were subscribed thereby increasing the quality of reference material available.
- Students were encouraged to make product models apart from their academic projects.
- Signed MoUs with different companies and scheduled training programs for students of all years/branches to enhance their skill development and employability prospects.
- The Mentor Mentee system is effectively implemented.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	http://iesce.info/uploads/userfiles/constitution%2020-21%2025-Mar-2022%2015-32-00.pdf
Upload any additional information	View File

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

The Organisational Structure

- **Executive Committee/ Governing Body:** The Executive committee of IES College of Engineering takes policy decisions

regarding the academics and infrastructure developmental activities of the college. Executive committee of the institution is elected by the lifetime members of parent institution Ideal Education City e.g. President, Sr.Vice President, Vice President, General Secretary, Secretary, Jt.Secretary, Treasurer and 8 directors. The Principal and an educationalist are also part of the executive committee. The Executive committee decides various policies and takes major decisions including the staffing, authentication of the services, and promotion of the employees.

- **Administrative Committee:** The Principal leads the various activities of the college at the level of academic attainment. She has her team consisting of Head of the Departments, Placement Officer, Administrative Officer, System Administrator, Librarian etc. The principal is vested with the day to day activities for the smooth running of the college activities. The Academic Director acts as major advisory in the development of the Institution.
- **Functions of various bodies:** There are various committees working under the supervision of executive committee i.e. recruitment , Finance and accounting , Academic Audit , Building construction , Purchase , Grievance committee, etc.
- **Supporting Bodies:** The teaching staff, supporting staff, administrative staff eta takes part in the attainment of various operations.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/6_2_2.pdf
Link to Organogram of the institution webpage	http://iesce.info/college-ornanogram
Upload any additional information	No File Uploaded

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	View File
Screen shots of user inter faces	View File
Any additional information	No File Uploaded
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non- teaching staff

In our Institution Staff welfare is given foremost importance. In connection with this, Existing welfare measure for teaching and non-teaching staff are itemized below:

Health insurance for eligible staff. Medical Leave & Maternity leave for eligible staff members. Staff members are eligible for Earned Leave. Advances for festivals. Employee gets fees concession for their ward. Canteen facility has been established in the campus which are accessible by staff during the working and extended hours. Internet and free Wi-Fi facilities are also available in campus for staff. Faculty members are provided with Individual cabin to facilitate good ambience. Vacations for staff members. Faculty development programs(FDP) for faculties on regular basis. Skill development courses are organized for non-teaching staff to enhance their skills in work environment. Automation of attendance and leave using biometric system. All the faculty members who upgrade their research work through quality publications during the academic year are honored by management. Gratuity for the employees of the institution. All the staff members are treated on par with each other in obtaining benefits from the institution. Women Empowerment Cell is established for creating venues for women members to flourish and gain momentum.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/SOP-R.pdf
Upload any additional information	No File Uploaded

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

Nil

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

18

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	No File Uploaded
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

41

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	No File Uploaded
Details of teachers attending professional development programmes during the year (Data Template)	View File

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

Teaching and non-teaching faculty members of Higher Educational Institutions today have to perform a variety of tasks pertaining to diverse roles. In addition to instruction, Faculty members need to innovate and conduct research for their self-renewal, keep abreast with changes in technology, and develop expertise for effective implementation of curricula. They are also expected to provide services to the industry and community for understanding and contributing to the solution of real life problems in industry.

Another role relates to the shouldering of administrative responsibilities and co-operation with other Faculty, Heads-of-Departments and the Head of Institute. An effective performance appraisal system for teaching and non- teaching faculty is vital for optimizing the contribution of individual staff to institutional performance.

The assessment is based on:

- A well-defined system for faculty appraisal for all the assessment years.
- Its implementation and effectiveness.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/6_3_5.pdf
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Institution conducts internal and external financial audits regularly

Auditing plays an important role in the proper functioning of an institution. There is a proper mechanism carried out by the institution for both internal and external audits.

- Internal audit is carried out by experienced and efficient personnel regularly.
- Proficient financial auditing agency conducts an external audit every year.
- Administrative office consolidates the documents and details of the various auditing activities.

The mechanisms used to ensure efficient utilization of financial resources are mentioned below:

- The Principal submits proposals on budget allocation after considering the recommendations proposed by the department heads to the management before the commencement of every academic year.
- The college budget comprises recurring expenses including salary, electricity bills, internet charges, maintenance costs etc. Thenonrecurring expenses like lab equipment purchases, other renovation and development expenses are also included.
- The accounts department monitors the expenses as per the budget allocated by the management.

File Description	Documents
Paste link for additional information	http://iesce.info/pdf/Auditedstatement2021.pdf
Upload any additional information	No File Uploaded

6.4.2 - Funds / Grants received from non-government bodies, individuals, philanthropers during the year (not covered in Criterion III)

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

NIL

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	No File Uploaded

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

The IES College of Engineering is a self-financed institution, where the funds are generated through the fees paid by the students. Additional funding is obtained from the faculty members through research proposals. The institute keeps effective mechanisms to monitor the efficient utilization of the various financial funds generated for the infrastructure development and academic operations. The accounts department of the institution monitors the recurring and non recurring expenses every year and allocates the funds generated for various developments of the college operations.

- Institution adheres to the utilization of the budget approved for the academic development and administration.
- Once the budget is approved, the purchase committee initiates the process, the quotations are called and after proper negotiation, orders are placed.
- The release of the payments is done after the delivery of respective goods and services as per the terms and

conditions mentioned in the order of purchase.

- The purchase of the suitable equipment is cross-checked by the respective faculty-in-charge.
- Procurement process is supervised by the purchase committee, principal and financial department at various levels.

Expertise agency of chartered accountants conducts the external audit every year.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/6_4_3.pdf
Upload any additional information	No File Uploaded

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

The institution has an active IQAC committee that looks into the proper functioning and quality of output of the different activities undertaken. At the academic level, it monitors the syllabus coverage. Two sets of question papers are presented for internal examinations from which the committee can select one for any given exam. Feedback from students is regularly collected, analyzed, and then passed on to the faculty concerned for further action. Further, online teaching modules are uploaded in the Google Classroom which is regularly monitored. There is an ongoing process to organize FDPs and webinars for updating the academic knowledge of teaching faculty. Frequent reports of the extent to which the syllabus is covered are collected. Regular internal auditing of the course files and tutor files is done by the IQAC committee through online mode due to pandemic situation.

NBA accreditation process started under IQAC. Work shops and seminars are given for faculties to get good awareness about each criteria to be filled in SAR The SAR work is completed and ready to upload by May 2021.

Students in all departments enrolled in value added courses in NPTEL and Coursera platform. Captivating learners programme for faculty members was conducted to make them comfortable in teaching learning process and prepare them to handle students in online

mode. Two online PTA meetings per semester conducted by the department. All the students ,faculty and staff members were given a circular to adhere the covid protocol directives given by Higher Education department and Government . Administrative officer has done the arrangements for the reopening of college .The timetable for contact classes prepared adhering to the covid protocol Maintenance work for labs identified by the maintenance team and the necessary action were taken up inorder to give practical sessions for students for offline classes. Dr. Kiruthiga HoD/CSE submitted the report on scheme of MSME- HI/BI.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/KTU%20internal%20Audit%20%2020-21.pdf
Upload any additional information	View File

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

The Institution has an active and bustling IQAC set up from 2017 onwards as per the guidelines given by NAAC . The IQAC reviews the teaching-learning process, structures, and methodologies of operations and learning outcomes by introducing several initiatives some of which are outlined below.

1. **KTU Academic audit:** IQAC conducts internal academic audits in all semesters and takes appropriate remedial actions to improve the quality of education. During the audit, course files, the University syllabus and lesson plan of the corresponding subjects are verified. CO-PO Mappings, CO attainments, and lecture notes of the corresponding subjects are also verified. To fulfill the content beyond the syllabus, IQAC persuades the Departments to conduct various workshops, Guest lectures, Industry visits etc. Lab stock verification has been carried out before the commencement of each academic year .During the pandemic situation IQAC has devised strategies for online audit.
2. **Conduct of Webinars/Quality improvement programs:** IQAC has been at the forefront of organizing webinars especially in

this time of pandemic. In addition to that, IQAC has organized hands on training programs in conducting online classes so that the faculty at IES is now fully equipped to deal with the intricacies of this system.

3. NBA SAR SUBMISSION:

IQAC took the responsibility of giving enough training sessions and doubt clearing sessions for faculties in NBA accreditation process. And almost completed SAR works in May 2021, for three departments Computer science, Civil Engineering and Mechanical engineering.

4. Students in all departments enrolled in value added courses

File Description	Documents
Paste link for additional information	http://iesce.info/pm_Activities
Upload any additional information	View File

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

B. Any 3 of the above

File Description	Documents
Paste web link of Annual reports of Institution	http://iesce.info/uploads/userfiles/Annual%20Report%2020-%2021.pdf
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	No File Uploaded
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

The institute promotes gender equality through various activities for empowering women and girls today to advance a sustainable tomorrow. Related events are carried out through the year in the campus.

Safety and Security Measures

1. A resident lady warden in the ladies hostel is employed along with a separate resident warden for boys hostel.
2. CCTV cameras have been installed in main building, classrooms, campus corridors, common places etc.
3. Statutory Committee like Women Empowerment Cell (Internal Compliance Committee), Students Grievance Committee comprising of female faculty members is constituted as per the AICTE/KTU guidelines and is working effectively.
4. Antiragging Committee takes in stake of ragging incidents if any regularly.
5. Separate prayer room is arranged for Muslim girls students inside the campus.

Counselling

1. The College has a well defined student counselling system. Each

student is allotted with a particular faculty member who will be his/her counsellor till the end of the course.

2. Each faculty has 15 to 20 students to mentor. This improves relationship between student and the mentor. It helps the mentor to know overall personality of each student.

3. Students meet their mentors for any grievance regarding gender related issues if any, personal problems, general issues, lack of facilities, academics etc.

4. A Students welfare committee is constituted to provide support to the educational process to advance the students academics and personal abilities.

Sick Rooms

Sick rooms for girls are provided in the institute.

Women empowerment cell conducted an online quiz competition on March 8 th, 2021 on behalf of International women's day.23 students from various departments participated in it. Online certificates were provided to them.

File Description	Documents
Annual gender sensitization action plan	http://iesce.info/uploads/userfiles/7_1_1.pdf
Specific facilities provided for women in terms of:a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	http://iesce.info/uploads/userfiles/7_1_1%20A.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

D. Any 1 of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Waste Management Procedure

Solid Waste:-

1.The waste generated in the campus includes paper, glass, plastic etc. There are 3 different colored waste disposal bins for waste segregation in the campus, which are :-

- Blue - biodegradable waste

- Yellow - plastic waste

- Red - E-waste

2.Used papers, workshop scraps etc. are given to external agencies.

3.Glass, metal plastic and non degradable wastes are given to external agencies where they are disposed or recycled according to the nature of waste.

4.Dried leaf litter is allowed to decompose over a period of time & becomes manure to plant.

5.The organic waste is treated in a biogas plant in the campus & gas produced is used for cooking (canteen) process.

6.Sanitary napkins incinerator has been installed to facilitate disposal of napkins.

Liquid Waste:-

1.Liquid waste generated in campus includes sewage, hostel and canteen effluent waste.

2.The above is treated in an STP and sludge is used as manure.

3.The laboratory waste water does not contain hazardous chemicals and periodical monitoring is done by maintenance team.

E-waste:-

1.The ones that can be reused are identified and used.

2.The E-waste which cannot be used is given to an authorized company for disposal.

E-WASTE MANAGEMENT - IES COLLEGE OF ENGINEERING

What is e-waste management?

E-waste or Waste Electrical and Electronic Equipment (WEEE) are loosely discarded, surplus,

obsolete, broken, electrical or electronic devices. Improper dismantling and processing of

e-waste renders it perilous to human health and our ecosystem. Therefore, the need of proper

e-waste management has been realized.

E-Waste Disposal Methods in IESCE

- Recycling of e-waste.

- Re-use of electronic devices.

Recycling of e-waste- A third party recycling and trading firm, "PROGRESSIV-E RECYCLING &

TRADING" is authorized to collect the E-waste generated within the college campus. It is the first

authorized (given by Kerala State Pollution Control Board) E-waste collection and handling unit in

Thrissur district. PROGRESSIV-E RECYCLING & TRADING collects the electronic waste from the

Institution, segregate and sort it. Aiming to create a Zero E-Waste Society all the materials

collected is dismantled and destroyed as per the Kerala PCB guidelines at their facility centre shed.

Re-use of electronic devices- There use of electronic devices such as desktops, laptops,

is applied to devices that have already been manufactured and are no longer in use (disposal)

and will be recycled unless they are refurbished /reconditioned (repaired, upgraded) and

used again or redistributed to other users.

DESTRUCTION / RECYCLING CERTIFICATE

A destruction / recycling certificate is issued from the recycling agency in every two years while

the e-waste accumulated in the college campus is collected for dismantling and destruction.

The quantity of e-waste products collected is mentioned in the certificate.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	No File Uploaded
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution B. Any 3 of the above

system in the campus

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following
1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities

C. Any 2 of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	View File
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms.

Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment

5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

C. Any 2 of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	No File Uploaded
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

IESCE provides an equitable, rationale, fair and encouraging environment to students to grow to full of their capacity. There is a friendliness and amity among students belonging to different socio-economic and cultural strata of the society. The college administration and teaching staff make it a point to motivate

students to imbibe the tenets of inclusive growth.

Analysing the students' profile, it is clear that they come from differently placed sections of the society. There are economic, social and gender based differences among them and these diversities come to naught when they enter in the precinct of the college. The teachers are committed to impart education to students without any impartiality. In regular classes, the students have become the part of a well energized and cohesive group whose basic need is learning in harmonious way. The teachers make extra efforts to help students who are weak in studies by arranging special classes after college hours. The equitable educational environment provided by the college helps boys and girls to develop themselves in a very healthy environment. The college administration is extra vigilant to provide safe and secure environment to girl students. The Women

Empowerment Cell, the Anti Ragging Cell, NSS units work hard in organizing awareness programmes to make students aware of the need of equitable social conditions.

The college administration takes welfare measures to provide fair academic conditions to all students. Scholarships are provided for the students coming from socio-economically modest sections of the society to provide equal educational opportunities to them. The institution also provides scholarship to needy students to reduce the dropout rate due to economic hardships. It also helps students through supporting schemes such as Earn While You Learn.

Through NSS activities, students are made aware of social work and they imbibe the values of togetherness, social amity and team work. During sports day , arts fest and other celebrations, students are given so many roles and responsibilities that the respective diversities get melted while completing different group tasks. The students who are involved in such activities are socialized to work in group for societal welfare. All festivals like Onam ,Ramadaan, Christmas,Holi are celebrated by the management ,staff and students with great happiness and sheer enthusiasm.

Celebration of National Days Every year Institute celebrates Republic Day, Kerala Piravi Day and Independence day on January 26, Nov 01 and August 15 respectively. The celebration is attended by Students, Teaching and Non-teaching Staff, Invitees, guests and any attendees. Flag hosting with National anthem and oath of national integrity followed by distribution of sweets is the

regular decorum of the programme.

There is deep seated harmony in the overall functioning of the college and the teachers and college administration work with students to create an enviable environment of inclusive growth of all.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	No File Uploaded

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

The institution sensitizes the students and the employees to the constitutional obligations about values, rights, duties and responsibilities and constantly works upon to nurture them as better citizens of the country through various curricular and extra-curricular activities.

The institute hoists the flag during national festivals and invites eminent persons to inspire students and staff by informing the qualities of freedom fighters and to emphasize the duties and responsibilities of citizens. The college establishes policies that reflect core values. Code of conduct is prepared for students and staff and everyone should obey the conduct rules. The institution encourages participation of students in Sports and Games, NCC and NSS at National level to strengthen nationwide bond and relation. The institution takes pride of raising up successful leaders among the students by conducting the Student Council election every year. The elected representatives are given leadership training and delegate the responsibilities of organising college programmes with the support of other student volunteers. Staff members participate in the national celebrations, Flag Day and take oaths for the cause of the nation.

The institution takes many initiatives like conducting awareness campaigns, organizing orientation programmes, training programmes, seminars and workshops to sensitize the future leaders to inherit human values coping with the constitutional obligations. A special quiz competition is organized on The Republic day every year by the IES ICC & ETHICS COMMITTEE for the students of IESCE and this

year the topic was "Freedom Struggle and Constitution Of India".

Various departments of the institution and NSS unit are actively involved in conducting several activities for inculcating values for being responsible citizens are given below-

Blood Donation Camps

Cleaning of Campus

Cleaning of canals in the panchayat

Flood Relief & collection and distribution of relief materials in worst affected areas

Re-bulding houses destroyed in floods

Nation-wide sanitation campaign "Swachhata hi Seva", Seva Din, Swach Bharat Abhiyan, Yoga Day International Human Rights Day, World water day, Earth day, Womens day, traffic rule awareness etc. are all celebrated to bring about awareness among staff and students.

Classes on how to manage stress, positive thinking ,yoga and self defense are conducted for staff and students by experts to improve their physical and mental health. One day motivational work shops are also held often to energize the students and help improve their academic and social skills.

Celebration of National Days Every year Institute celebrates Republic Day, Kerala Piravi Day and Independence day on January 26, Nov 01 and August 15 respectively. The celebration is attended by Students, Teaching and Non-teaching Staff, Invitees, guests and any attendees. Flag hosting with National anthem and oath of national integrity followed by distribution of sweets is the regular decorum of the programme.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	http://iesce.info/uploads/userfiles/7_1_9.pdf
Any other relevant information	Nil

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff

4. Annual awareness programmes on Code of Conduct are organized

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	View File
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Republic Day -Jan 26th

March 8th -Women's Day

Holi

Onam

Republic Day

New Year

Christmas

Teachers day

Keral Piravi Day

Gandhi Jayanthi

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

IES College of Engineering

Best Practices

Academic Year 2020-21

Practice I:**1. Title of the Practice:**

"Student chapters for MOOC Courses"

2. Objective of the practice

- A MOOC is an online course with the option of free and open registration, a publicly-shared curriculum, and open-ended outcomes.
- MOOCs integrate social networking, accessible online resources, and are facilitated by leading practitioners in the field of study.
- Most significantly, MOOCs build on the engagement of learners who self-organize their participation according to learning goals, prior knowledge and skills, and common

interests.

- They made progress with the higher-level outcomes of applying knowledge to other situations and synthesizing information.

3. Context

- The common duration of a MOOC is from 6 to 12 weeks. A MOOC is accessible 24 hours a day, 7 days a week. The majority of the content is delivered asynchronously (meaning students can access it in their own time and at their own pace). However, sometimes there can be optional synchronous events such as 'live' webinars (interactive sessions) which require participants to join in at specific dates/times.
- A standard class becomes in a MOOC a set of videos of 5-10 minutes each.
- The learning of students in a MOOC is usually assessed by multiple-choice questions.
- An important component of MOOCs is assignments. Student have to upload assignment solutions into the MOOC platform. Assignments can be evaluated and graded:
 - Automatically when possible.
 - Peer-to-peer: students evaluate and grade themselves.
 - Another component is the forum, where students post questions that other students can answer.
- Usually, there are no pre-requisites for taking a MOOC, apart from having access to a computer with an internet connection. Most of the time, the educational or academic background of students isn't important.
- Students usually don't need to buy any books for these courses, because all reading is either be provided within the MOOC content or is linked to open access texts.

4.The practice and the Evidence of Success

Two Students chapters were started in IESCE for the benefits of the students

1. Swayam NPTEL Student Chapter during March 2019

1. SWAYAM is a programme initiated by Government of India and designed to achieve the three cardinal principles of Education Policy viz., access, equity and quality. The objective of this effort is to take the best teaching learning resources to all, including the most disadvantaged. SWAYAM seeks to bridge the digital divide for students who have hitherto remained untouched by the digital revolution and have not been able to join the mainstream of the knowledge economy.
2. This is done through a platform that facilitates hosting of all the courses, taught in classrooms from Class 9 till post-graduation to be accessed by anyone, anywhere at any time. All the courses are interactive, prepared by the best teachers in the country and are available, free of cost to any learner. More than 1,000 specially chosen faculty and teachers from across the country have participated in preparing these courses.
3. The courses hosted on SWAYAM are in 4 quadrants - (1) video lecture, (2) specially prepared reading material that can be downloaded/printed (3) self-assessment tests through tests and quizzes and (4) an online discussion forum for clearing the doubts. Steps have been taken to enrich the learning experience by using audio-video and multi-media and state of the art pedagogy / technology.
4. Enrolment: more than 450 enrolments has been done and many have got their certification too, Special certification like "elite" certificates were seen in all the batches. Some sample certificates are attached below

1. Coursera Student Chapter during March 2020

Coursera student chapter in IESCE was started during 2020, which helped the students a lot during the lockdown period. Coursera Inc is a U.S.-based massive open online course provider founded in 2012 by Stanford University computer science professors Andrew Ng and Daphne Koller. Coursera works with universities and other organizations to offer online courses, certifications, and degrees in a variety of subjects.

Enrolments:

More than 1700 Enrolments in various subjects were seen for the past 2 years. It was properly utilized and those certificates helped the final year students a lot during their interviews.

1. Challenges

- During Lockdown students those who doesn't have proper electronic gadgets were not able to utilize this opportunity.
- Internet Issues
- Student chapter was given free for only 1 year then some charge was imposed so financially backward students found it difficult.

Practice II:

1. Title of the Practice:

"Product development for addressing covid related issues"

1. Objective of the practice:

The objective of the practice is to develop useful products by which we can fight against the Covid-19.

1. Context:

- To create awareness regarding covid spread.
- To spread the importance of maintaining covid protocols.
- To help doctors in fighting against the Covid crisis.

1. The Practice

IESCE Students have developed two major inventions namely

1. HABLOSAN (TALKING SANITIZER)
2. AZIMA ALTRA ROBO

1. HABLOSAN (TALKING SANITIZER)

Components Required

Ultrasound Sensor, IR sensor, Relay module, Voice module, DC Motor

Working

- ultrasonic sensor detects the movement within 1 meter.
- when movement detected sends a signal to the controller
- controller sends a signal to the voice playing module to play the reminder voice recordings
- when IR sensor gets triggered it sends a signal to

controller

- controller turns on the motor for 1seconds

Aim

- To get contactless sanitizer dispensing
- Automatic Working
- Reminder for sanitizing

Block Diagram

1. AZIMA ALTRA ROBO

Robotic nurses are robots that help patients physically move around or perform simple tasks like taking vital signs or delivering medicine.

Some robotic nurses serve as interfaces for doctors to use over distances to communicate with patients.

Robots in medicine help by relieving medical personnel from routine tasks, that take their time away from more

pressing responsibilities, and by making medical

procedures safer and less costly for patients.

They can also be used for transporting hazardous medical drugs.

Abstract

From a view through emerging technologies, it is necessary to create a revolution in the medical sector. Day by day the number of diseases and pathogens are increasing, lack of efficient nurses in those emergency situations are the reason behind the innovation of this project.

In an emergency scenario like a pandemic there is an urgent requirement to develop and implement something that can make up for the lack of efficient nurses in the field. The project is mainly concerned on checking the vital signs of patients like

heartbeat, blood pressure, Electro-cardio Graph (ECG) and reports it to the concerned physician.

Robotic nurses are robots that help patients physically move around or perform simple tasks like taking vital signs or delivering medicine. Some robotic nurses serve as interfaces for doctors to use over distances to communicate with patients.

Robots in medicine help by relieving medical personnel from routine tasks, that take their time away from more pressing responsibilities, and by making medical, procedures safer and less costly for patients. They can also be used for transporting hazardous medical drugs.

Block Diagram

1. Evidence of Success

- The implementation of the robot in hospitals helps to reduce the human contact with isolated patients having contagious diseases.
- The robot helps in reducing and controlling the spread of a contagious disease in the time of a pandemic like Covid- 19 (corona virus).
- The vital readings taken of the patient by the robot is instantly send to the doctor in the cabin so the doctor can keep a real-time tab on the patient.

1. Future Scope

- The future versions of our robot can be more humanoid and interactive.
- This robot may also be used in other fields like chemical industry to minimize the human contact with toxic chemicals and hazardous materials.

- More humanoid and advanced robots can be used to assist doctors in treating injured soldiers and civilians at the time of a war.

File Description	Documents
Best practices in the Institutional website	http://iesce.info/pm_bestpr
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The Institute has an Innovation and Entrepreneurship Development Cell (IES IEDC) established in 2016. Innovation and Entrepreneurship Development Centre (IEDC) is a flagship initiative of Kerala Startup Mission to promote innovation and entrepreneurship among the student and academic fraternity in the educational institutions in the State of Kerala and considered as an umbrella programme that would play an instrumental role in fostering innovation culture in Academic institutions. It is a student's organization established in the institution devoted in promoting the spirit of entrepreneurship among themselves. It also aims to conduct ED courses for students with the help of Kerala Startup Mission ,MSME EDI, India. IES IEDC organizes seminars and various workshops periodically. Successful entrepreneurs are invited for interactive session with the students, for making the students understand business ethics and start-up procedures. The cell also organizes idea competition and mentor them to transform their ideas into reality Officials from different sectors are also invited as guest speakers for sessions to provide guidance on financial and registration aspects of startups. PROGRAMME DESIGN OF IEDC IEDC Programme design systematically helps the Faculty in-charge to nurture the innovation culture among the young innovators. Beyond innovation, while engaging with IEDC activities, students are benefitted byan overall development in their personality, soft skills, technology skills and the 21st century skills. IEDC programme allow students to explore new ideas, test them and develop prototypes using the resources

available in IEDC. IEDC system adopts a "learning by doing" philosophy and promotes "Do It Yourself" culture. IEDC programmes are designed in three distinct but connected verticals namely Innovation, Technical and Entrepreneurship. Students will be exposed to a number of interventions in these three areas. In the first phase i.e. Innovation phase, students will be experienced the innovation thinking, tools of innovation and innovation mindset. Students will be experienced in design thinking, ideation which will help them to develop a new perspective towards social and community problems. In the second phase, Student will undergo a skill appreciation workshop and will be introduced to new technologies, future of work, concepts of computational thinking and other sectoral areas. Students are expected to take up efforts to upgrade skills in their chosen areas. And finally, Students will be exposed to business and entrepreneurship aspects through workshops and case studies. Tools such as Business Canvas Modeling workshops, Design Thinking workshops will be conducted in this phase. Students begin working in teams, towards solving the identified problems, leveraging their learning from the previous phases.

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

IES College of Engineering is affiliated to APJ Abdul Kalam Technological University (KTU), Thiruvananthapuram from 2015 onwards and before that it was affiliated to University of Calicut, Kerala. Hence, presently, the Engineering curriculum prescribed by the APJ Abdul Kalam Technological University is being followed. Each and every course in the curriculum has course objectives and course outcomes. Before imparting courses, the course outcomes are mapped with PO's and PSO's. Generally, six theory courses and two laboratory courses are taught in every semester.

- Effective delivery of the curriculum starts with the preparation of the academic calendar.
- The Academic Calendar serves as an information source and planning document for students and faculty. Based on the KTU academic calendar, a college calendar is prepared at the beginning of each semester with a plan of conducting examinations, co-curricular and extracurricular activities of the college. Each department prepares a department wise academic calendar listing the plan of the activities of the department.
- A time table committee is formed, in this meeting, with representatives from all departments and they draw up detailed timetable which efficiently deploys the units of time for academic and co-curricular purposes like theory, practical, tutorial, life-skill, value education and add-on classes thereby ensuring a balance between the different types of engagement a student is expected to participate in. Time table is prepared considering the individual choice, preferences and competence, as far as possible, for effective curriculum delivery.
- The teaching plans are prepared which consist of lesson plan, question bank, tutorial/assignment questions, lab manuals and teaching note. Faculty members take utmost care to complete the syllabus in time.
- Lesson plan is prepared with well-defined course outcomes, subject notes, learning materials like PPTs etc. Classes are conducted as per the lesson plan.

- Course Committees and Class Committees are constituted which meet at least thrice in a semester-the first at the beginning of the semester, the second and third after the first and the second internal tests respectively.
- Course Committee - In the case of common courses for B.Tech (such as Mathematics, Physics, Chemistry etc.) a course committee is constituted by the Principal for each course. The chairman shall be a senior faculty member, not offering the course. All faculty members handling the course for various classes and 5 student representatives among different classes are the members. These committees will monitor the conduct of the course, adherence to the course plan, time schedule, completion of the syllabus, standards of internal tests and evaluation process. At the end of the semester, the committee will meet without the student representatives to review the conduct of the course and finalise the internal assessment marks and approve them.
- Course delivery as per lesson plan and completion of syllabus is monitored by HOD.
- Students' feedback is taken twice in the semester for teaching learning process (completion of the curriculum, redressal of grievances relating to evaluation etc.)
- Continuous assessment and progress of Lab work is done according to the manual for conducting lab experiments.
- Meetings with the Parents or class PTA are called after the result analysis of every semester to discuss students academic progress and other matters
- Mentoring system is in place with around a maximum of 15 students assigned to one mentor faculty

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	http://iesce.info/uploads/userfiles/Academic%20Calendar20-21(1).pdf

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

Before the beginning of every academic year, KTU announces detailed academic calendar based on the guidelines of AICTE, taking into account of the mandatory number of working days (72 days per semester). The plan for teaching learning process is

organized by the college academic council at the beginning of every semester. IESCE publishes an internal academic calendar incorporating its academic and non academic activities in line with the KTU academic calendar. The Head of the Departments concerned conducts meeting with all the faculty members and allots subjects based on their interest / proficiency. Then the timetable is prepared and circulated to the students. The class and course committees are formed with students also as members. The faculty members prepare the Course Plan at the beginning of the semester. The theory classes and practical sessions will be carried out according to the course plan prepared. Institution will see that the progress of academic activities are according to the course plan and will compensate for the unexpected holidays with extra working hours. The student evaluation of teachers is a regular feature done online through linways, carrying out , after first series and end of the semester regularly, in addition to direct feedback within class hours. Student's feedback is consolidated by the HOD and presented to the higher officials for follow up action. Apart from this, KTU external auditors, and HODs interact with the students to obtain their feedback. The feedback received will be discussed with the teachers concerned and if necessary, they will be counseled and advised by the college authorities. For theory, as well as practical subjects internal evaluation is conducted by the internal examination committee. Internal examinations are conducted as per academic calendar for all semesters. Two sets of question papers scrutinized by HOD for each subject are collected one week prior to the commencement of the examination by DCOE's (Department Controller of Examinations) of concerned departments and forwarded to the main examination cell. The absentee's statement for each examination is documented by the respective DCOE's. The answer sheets will be provided to the students after evaluation.

After the publication of the results of all series examinations, subject wise, weak students are identified and appropriate remedial measures are initiated. Tutorials and assignments, presentation of seminars , projects and evaluation of designs / mini projects, are scheduled as per the academic calendar. Internal marks are finalized and published based on series test marks, assignment marks and attendance of the students, as per the guidelines from the university.

Students securing minimum internal marks as prescribed by the university (KTU 2015 Scheme, 2019 Scheme) are eligible for attending university examination. Ineligible students are

required to attend summer course/ course repeat to acquire eligibility for attending university examination. Apart from securing minimum pass mark in the university examination students are also required to obtain activity points by participating in various co-curricular and extracurricular programmes as per the guide lines of university for completing their degree course.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	http://iesce.info/pm_acal

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University

C. Any 2 of the above

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

8

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

37

File Description	Documents
Any additional information	No File Uploaded
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

100

File Description	Documents
Any additional information	View File
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

IES College of Engineering is affiliated to KTU, as we follow the University's Curriculum and incorporate cross-cutting themes such as Gender, Environment and Sustainability, Human Values, and Professional Ethics into the Curriculum and further, impart these through various events and workshops. Throughout the academic year, events are planned with this goal

in mind, to produce a positive resonance in their academic and societal commitment.

Gender

IESCE recognises the importance of gender equality and has a thriving and active Women Empowerment Cell has been working tirelessly to raise awareness about gender-based issues and to provide a welcoming and supportive atmosphere for girls' entire development. IESCE also hosts seminars on socially significant topics such as gender equality and gender diversity on women's development, women's health issues, the role of women in environmental conservation, and self-defense training for women.

Environment and Sustainability

The curriculum in KTU includes courses such as Design and Engineering, Sustainable Engineering and Sustainable Energy are some of the areas covered.

IESCE arranges frequent awareness programmes using posters, models, PPT presentations, talks, and seminars to raise awareness and comprehension among the general public about the need of protecting our environment and promote an ecological equilibrium in the environment. NSS and other cells such as the Literary and Science Club arrange a variety of environment-related events such as Earth Day, World Environment Day, tree planting, flood relief, Clean India-Swachh Bharat Campaign, and so on.

Professional Ethics and Human Values

KTU has integrated courses like Life Skills, Professional Ethics, Constitution of India in the curriculum in order to promote Human Values and Professional Ethics among engineering graduates. These papers largely discuss the intricacies of Human Values and Ethics, as well as how to apply them in everyday social and professional situations. IESCE provides an induction programme for new entrants to help them adjust to their new surroundings, improve awareness, sensitivity, and understanding of themselves, others, society, and nature. Students can acquire and assimilate professional ethics through participating in extended programmes, workshops, and attending guest lectures. A well-defined code of ethics and conduct is drafted and publicized in the College .

File Description	Documents
Any additional information	No File Uploaded
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

24

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	No File Uploaded
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

33

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the **E. None of the above**

syllabus and its transaction at the institution from the following stakeholders
Students Teachers Employers Alumni

File Description	Documents
URL for stakeholder feedback report	Nil
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	No File Uploaded
Any additional information	View File

1.4.2 - Feedback process of the Institution may be classified as follows

B. Feedback collected, analyzed and action has been taken

File Description	Documents
Upload any additional information	View File
URL for feedback report	http://iesce.info/pm_ssur

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

262

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

7

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

Considering the significance of the process, the College has adopted a system, proven elsewhere, of identifying slow learners and advanced learners. We used to identify and classify the slow and advanced learners by their performance in the internal tests and the University examinations. As we came to realize the importance and the impact of starting the process before the commencement of the programme

The Tutor who becomes so intimate with their wards can easily identify their problems and find solutions. The students with major psychological deviations are referred to the College Counselor.

We give emphasis on improving the performance of slow learners by providing remedial programmes which are conducted outside regular classes.

Activities for the improvement of Slow Learners

- Remedial Classes are conducted after regular teaching hours to assist slow learners.
- Students with psychological problems are identified by tutors and referred to the college Counsellor.
- Personality Development sessions are conducted to motivate and build confidence in students.
- Peer learning is encouraged within the slow learners so that the students support and help each other in the learning process.

The major objective of this program is to make them competent and self-confident to face the exams and reduce the drop out ratio

Activities for Advanced Learners:

- Learners are encouraged to attend Seminars, Workshops and Technical Exhibitions to gain knowledge on the latest developments.
- Names & photos are published in Social Media & Website.
- Special Skills/Interests are identified guided and encouraged.
- The students are motivated to register for online courses like NPTEL/SWAYAM and also to participate in Industry oriented Add -On courses. Many students have completed the MOOC Course with top grades
- Students with Entrepreneurial skills are encouraged to have Startups by the College as well as IEDC center.
- Students with Technical Interest have formed IEEE Student Branch and actively participate in various programmes.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/2_2_1.pdf
Upload any additional information	View File

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
789	72

File Description	Documents
Any additional information	No File Uploaded

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

IES College of Engineering makes sure that student-centric methods are effectively used in regular academic practices as it makes the students more self-reliant and self-motivated. By applying these student-centric methods as far as possible, the institution strives to enhance the lifelong learning skills of students. IES College of Engineering encourages the staff members to use a variety of student centric methods, such as experiential learning, participative learning, problem solving methodologies etc. The staff members use the Linways software

to upload course materials and references so that these are easily accessible to the students. Teaching aids like LCD projectors available in all departments are effectively used in the classroom to supplement the regular teaching. We motivate the students to do MOOC courses like NPTEL and Coursera. Multimedia teaching using PPTs is incorporated in the day to day teaching and this helps in right utilization of time by staff and enhances the student understanding of the subject.

Experiential Learning:

Engineering at IES takes you beyond the classroom, bringing relevant concepts to life and putting them to work through a variety of experiential learning opportunities. From student projects to undergraduate research, experiential learning provides the ability to apply concepts and theory in a real-world setting to truly learn how an engineer works.

Student Projects:

All undergraduate degree programs require a project as a statutory requirement for the completion of programmes. Good ones among these projects culminate in an TECHFEST, showcasing the exceptional talents of engineering students and their dedication to solving the world's most pressing problems.

The institution imparts the following experiential learning practices:

- Laboratory Sessions with advanced experiments
- Internship to expand the knowledge on market trends
- Add-on Courses on latest technologies
- Project development

Participative Learning:

These are some of the Participative Learning practices employed by the Institution:

- Tech Fest/Project Expo
- Technical Seminar Presentation
- Industrial Visit to get insight into the internal working atmosphere of industries
- Co-curricular & Extra-Curricular activities/contests to trigger self-confidence of the students
- NSS and extension activities

Problem-solving methods:**Practical Sessions to get Hands-on experience**

- Tutorial Sessions
- Special Assignments
- Quiz Sessions

The institution is very keen on implementing innovative methods such as Google Classroom, to make the learning experience more effective and interesting. Students are highly motivated to take part in inter-collegiate, state level and national contests, value-added courses, Add-on programs, and extension activities for their holistic development.

The institution makes significant efforts to explore classrooms with ICT tools and e-resources, such as NPTEL videos, e-books, PPTs, etc which helps to easily transform conventional teaching process to student-centric process.

File Description	Documents
Upload any additional information	View File
Link for additional information	http://iesce.info/pm_AQARotherDoc

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

Information and Communication Technology (ICT) in education is the mode of education that uses information and communication technology to support, enhance, and optimize the delivery of information. It has shown that ICT can lead to an improved student learning and better teaching learning methods. Knowing these, IES College of Engineering encourages teachers to use ICT enabled teaching tools like PPT Presentation, Recorded Online videos, NPTEL lectures, Virtual Labs, Moodle, Google classrooms etc. An academic management system developed by Linways technologies is extensively used by the faculty for conducting the courses and uploading the resources useful for students. Faculty use Virtual lab for explaining Lab experiment in a systematic manner in this COVID Situation.

ICT enabled activities of the Institution:

- NPTEL(Swayam) Student chapter

NPTEL was started during the year 2019 in IES College of Engineering. The objective of this effort is to take the best teaching learning resources to all students. This is done through a platform that facilitates hosting of all the courses, taught in smart classrooms which can be accessed by anyone, anywhere at any time during this COVID situation. Faculty and students regularly take up MOOC courses offered by NPTEL to upgrade their knowledge.

- Coursera

Coursera student chapter in IES College of Engineering was started during 2020, which helped the students a lot during the lockdown period. Coursera Inc is a U.S.-based massive open online course provider founded in 2012 by Stanford University computer science professors Andrew Ng and Daphne Koller. Coursera works with universities and other organizations to offer online courses, certifications, and degrees in a variety of subjects.

- Linways

It is an education technology expert primarily focused in the higher education domain for providing academic management solutions for our institution. Since 2019, faculties, staffs and students are using Linways software.

- Google ACE Program

Google Associate Cloud Engineer program is an online training program offered by Google to develop cloud based skills among students. 25 of our students have successfully completed this course.

- Digital Library

The Library provides access to e-journal packages like IEEE and ACE journals. Also have membership in National Digital Library.

ICT tools in the Institution:

ICT enabled classes are provided in which faculty can use LCD projectors for visualizing and demonstrating various concepts,

theories and procedures in addition to the lecture using black board. Different materials used by the faculty for this purpose include power point presentations, video lectures available from NPTEL and other reliable sources. These materials are made available to the students for improving their learning process. Faculty also handles classes for students in smart classrooms. For the enrichment of the teaching learning process, different softwares are available in labs.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

67

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

67

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	No File Uploaded
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

5

File Description	Documents
Any additional information	No File Uploaded
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

67

File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

The quality of question papers is ensured by a question paper scrutiny committee. Question papers for each subject are set to assess the attainment level of the course outcomes and it is ensured that the questions have Blooms' Taxonomy action verbs. The faculty should select levels (conceptual, analytical, etc.) of questions meeting COs so that the learning abilities of the whole class can be analyzed through the scores obtained against each question. Faculty members evaluate the answer scripts and publish marks within one week (Linways). The whole evaluation of answer scripts is solely based on the pre-planned scheme/ answer key. Students who have missed either the first or the second test can write the same with the consent of the faculty and the head of the department. Retest may be allowed to students, which shall be conducted soon after the completion of the second test, but before the end semester examination. After each series test, remedial classes of each course are conducted for slow learners, for academic improvement. The consolidated internal marks are published in the notice board and sufficient time is given to students to report errors.

File Description	Documents
Any additional information	View File
Link for additional information	http://iesce.info/uploads/userfiles/2_5_1.pdf

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time-bound and efficient

After every internal examination the students get an opportunity to view their evaluated answer scripts and may get the anomalies rectified, if any, in discussion with the faculty handling the course. If the students have any grievances regarding answer sheet evaluation they can approach the class advisor. By the direction of the head of the department another faculty who is expert in that subject is appointed for reevaluation. The marks scored by the students in tests are published regularly after evaluation to maintain transparency. Two tests and a minimum of 2 assignments are considered for internal assessment marks. The internal assessment marks are published by the departments at the end of the semester. Along with the published marks, students are informed to submit grievances, if any, to the HOD with supporting documents. HOD scrutinizes the cases and based on the merit, in consultation with the faculty concerned, recommends corrections, if any, to

the original marks awarded to the student. These are conducted in a timely manner so as to submit the marks in the University portal according to the deadlines provided by the University.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Learning outcomes are statements that describe the knowledge or skills students should acquire by the end of a particular assignment, class, course, or program, and help students understand why that knowledge and those skills will be useful to them. They focus on the context and potential applications of knowledge and skills, help students connect learning in various contexts, and help guide assessment and evaluation.

Graduate Attributes drafted and accepted in the Washington Accord are identified as Programme Outcomes of the Engineering Degree Course by the NBA and we follow the same. Apart from these POs, our College has clearly stated Programme Specific Outcomes and Course Outcomes. KTU, the University to which we are affiliated, publish well defined Course Outcomes along with the syllabus of each Course from 2019 onwards and our College only has to make marginal changes to it. Ultimate care is taken by the concerned staff members while redrafting Course Outcomes. These Outcomes are reviewed and suggestions are given by the Department IQAC which is constituted in every Department with specific objectives

Our College has various methods for communicating the Learning Outcomes. Teachers spend some time every day, at the beginning of the class, to explain the Learning outcomes.

- POs are displayed prominently in many common spaces in the campus along with the Vision and Mission of the College.
- PSOs are displayed on boards in prominent places of the respective Departments.
- All these Learning Outcomes are displayed prominently in

the College Website easily accessible to everyone.

- The POs and PSOs are disseminated in all the staff rooms, classrooms, library and laboratories.
- COs are also communicated to students in the Series Test question papers.
- Hard Copy of syllabi and Learning Outcomes are available in the college Library/ departments for ready reference to the teachers and students.

Each Course Outcome is mapped to Program Outcomes and Program Specific Outcomes in terms of their correlation. CO-PO & PSO attainment is calculated at the end of every semester and corrective measures are discussed to improve the attainment level. Course Outcomes of all courses, Program Outcomes and Program Specific Outcomes of all programs are listed in attachments.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	http://iesce.info/naac
Upload COs for all Programmes (exemplars from Glossary)	View File

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

IES has accepted and adopted Outcome Based Education which is a student-centered instruction model that focuses on measuring student performance through outcomes. Outcomes include knowledge, skills and attitudes. Program Outcomes, Program Specific Outcomes and Course Outcomes are evaluated to measure the knowledge, skills, and behavior of students for the continuous quality improvement of each Course and Programs as a whole using the below-mentioned procedure. Program educational objective, Program outcome, program specific outcome and course outcome are all measured using the guidelines set by the KTU which includes both direct assessment and indirect assessment.

Direct attainment: Each course is evaluated based on direct and

indirect assessment tools. Direct assessment tools include internal exams, assignments and university examinations

Indirect Method: Program exit survey, Alumni feedback, and Employer survey

POs and PSOs are calculated by using Direct and indirect tools. PO/PSO direct attainment calculations are based on the CO attainment of each course and the CO-PO or CO-PSO matrices that have been developed for each course. Finally, overall direct attainment of each PO/PSO is taken as the average value of PO/PSO attainment of all the courses. PO/PSO indirect attainments calculated from program exit survey, alumni survey and employer survey. In order to calculate the overall attainment of each PO, a weightage of 80% has been given for DIRECT method and 20% for INDIRECT method.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	http://iesce.info/uploads/userfiles/Calculation%20of%20Learning%20outcome%2003-26-2022%2013_04_55.pdf

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

161

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	View File
Paste link for the annual report	http://iesce.info/uploads/userfiles/Annual%20Report%2020-%2021.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

http://iesce.info/pm_sssur

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

0

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	No File Uploaded
List of endowments / projects with details of grants(Data Template)	No File Uploaded

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

3.1.2.1 - Number of teachers recognized as research guides

0

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	No File Uploaded

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

0

File Description	Documents
List of research projects and funding details (Data Template)	No File Uploaded
Any additional information	No File Uploaded
Supporting document from Funding Agency	No File Uploaded
Paste link to funding agency website	Nil

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

IES -IEDC

The Institute has an Innovation and Entrepreneurship Development Cell (IES IEDC) established in 2016. Innovation and Entrepreneurship Development Centre (IEDC) is a flagship initiative of Kerala Startup Mission to promote innovation and entrepreneurship among the student and academic fraternity in the educational institutions in the State of Kerala and considered as an umbrella programme that would play an instrumental role in fostering innovation culture in Academic institutions. It is a student's organization established in the institution devoted in promoting the spirit of entrepreneurship among themselves. It also aims to conduct ED courses for students with the help of Kerala Startup Mission ,MSME & EDI, India.

IES IEDC organizes seminars and various workshops periodically. Successful entrepreneurs are invited for interactive session with the students, for making the students understand business ethics and start-up procedures. The cell also organizes idea competition and mentor them to transform their ideas into reality Officials from different sectors are also invited as guest speakers for sessions to provide guidance on financial and registration aspects of startups.

VISION

To inculcate an innovation culture among the students , to create future entrepreneurs and position the institution, as a

learning, innovation and entrepreneurial hub.

MISSION

To establish an innovation platform by introducing the State-of-the-art technologies through promoting innovation and entrepreneurship.

OBJECTIVES

- To promote an innovation driven entrepreneurship culture among the students
- To develop and promote commercially viable innovative products and solutions from the students.
- To promote a spirit of enterprise among budding technopreneurs

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

12

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

0

File Description	Documents
URL to the research page on HEI website	Nil
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	No File Uploaded
Any additional information	No File Uploaded

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

44

File Description	Documents
Any additional information	No File Uploaded
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year

8

File Description	Documents
Any additional information	No File Uploaded
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

To sensitize students to social issues, various programmes are conducted in our institution. Orientation programmes,

competitions, blood donation camps are all given to students during covid time. Anti tobacco classes, tree plantation, poshan maah programme, awareness session and observation of days are done .

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

0

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	No File Uploaded
e-copy of the award letters	No File Uploaded

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

3

File Description	Documents
Reports of the event organized	View File
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year

100

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year

15

File Description	Documents
e-copies of related Document	View File
Any additional information	No File Uploaded
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries,

corporate houses etc. during the year

3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year

3

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	No File Uploaded
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

IES College of Engineering the flagship institution of IES Education City, is conceived and developed as a hi-tech technical training institution. Nestled in close proximity to Thrissur city and surrounded by the sylvan surroundings of the Vilangan Hills and lush green paddy fields. IES EDUCATION CITY is spread over more than 40 acres of verdant land at Chittilappilly. The college campus is located in a sprawling area of clean and green ambience and covers 1,23,186.31 m² (30.44 Acre) with a built-in area of 32,809 m², which provides a well balanced and soul enriching campus environment. IES is proud of having an overall strength of around 2000 students, a fleet of 50 buses and separate hostels for boys and girls with modern amenities. In addition, care and attention is given to provide modern classrooms, well equipped laboratories, modern well stacked libraries and seminar halls. Each department has seminar hall with addressing area, white board, LCD projector and internet connection. The laboratories are well equipped with multiple sets of apparatus. Latest configuration desktops and softwares are provided in computer labs. Availability of text books, reference books and journals in the library is ensured for the effective course delivery.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://iesce.info/uploads/userfiles/4_1_1.pdf

4.1.2 - The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

The institution gives due importance to extracurricular activities along with academic subjects for the all-round development of the students. students are trained in sports and game under the guidance of qualified and specialized coaches. We provide sports facilities like Basketball, Volleyball, Badminton court, Table tennis, Football court, Cricket net in the campus. Some of our students have won medals in the University level competitions and students from our college were selected into the University team. Inter-department sports and games (Intra-murals) are conducted every year with great enthusiasm and participation. The Yoga space is provided inside the campus and the instructor is Suvadhan Guru. There is a fully fledged badminton court, table tennis board, volley ball court and basket ball court and spacious football court. Carrom, Chess., etc are conducted as part of sports and games. Cultural activities like Onam, Christmas are celebrated and various competitions are conducted as a part of the same. Painting competitions are conducted among the students and charity events are arranged incorporating students, teaching and non-teaching staff members.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://iesce.info/uploads/userfiles/4_1_2.pdf

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

10

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://iesce.info/uploads/userfiles/4_1_3.pdf
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

Nil

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	No File Uploaded
Upload Details of budget allocation, excluding salary during the year (Data Template)	No File Uploaded

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

IESCE Central Library has been functioning since 2003 with a vision to develop, organize and preserve materials to meet the needs of present and future generations of students and scholars. It is sprawling over a carpet area of 8008.4 square feet with a two storied structure, and stands ahead of time with ample spaces for reading, reference and e-learning. Library developed an extensive collection of books, scientific and technical journals and electronic reference materials for satisfying the academic and research needs of the students and faculty. It houses around 20,000 books covering all disciplines of engineering, technology, and management. Library is automated by using library software Book Magic (version 5.0). Library has adopted open access system, and maintains

OPAC. The transactions are carried out using barcode technology. The books are classified according to the DDC Scheme of Library Classification. A digital library with more than 10 multimedia systems is available for accessing the e-Journals, e-books, NPTEL, NDL videos and other education materials..

Accessibility to Students:

A campus wide access to various E-Resources through institute IP address has been facilitated in accordance with the KTU Consortium. Students can make use of all resources in the library like books, journals (hard copy and e-journals), CDs, 3DMs, NPTEL materials, intranet etc., for self learning.

Students can borrow books/ CD ROMS following the rules of the library. Through Web OPAC facilities users can search queries related to books, journals, CD/DVDs, project report and proceedings in the central library and users can also reserve the books which are on demand.

Special Services/ Facilities Offered:

- Online Public Access Catalogue
- Access to e-Journals/Books
- Digital Library of KTU/Calicut question papers
- Membership with NDL
- Enriched with vast and useful collections.
- Documents are fully bar-coded for fast and accurate transactions.
- The library has internet facility with LAN of 10 systems.
- Back volumes of journals (bound volumes) are available for reference.
- Newspaper clippings services.
- Inter Library Loan Facility.
- Display of new arrivals-books and periodicals
- Faculty publications & Research paper available in reference

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	http://iesce.info/uploads/userfiles/4_2_1.pdf

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

D. Any 1 of the above

File Description	Documents
Upload any additional information	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

10.12355

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

4.2.4.1 - Number of teachers and students using library per day over last one year

620

File Description	Documents
Any additional information	No File Uploaded
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

IES College of Engineering has Internet Facility for the benefit of students and faculties. The Internet service provider is BSNL (Bharat Sanchar Nigam Limited) with an Available Bandwidth of 100 Mbps Leased line through Fiber supported by backup RF Line (1:1 ratio). The college is Wi-Fi Enabled campus. Internet is accessible in all computer labs, classrooms, Library and department staffrooms

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://iesce.info/pdf/Auditedstatement2021.pdf

4.3.2 - Number of Computers

474

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

File Description	Documents
Upload any additional Information	View File
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)

122.07

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

- The college ensures optimal allocation and utilization of the available financial resources for maintenance and upkeep of different facilities by holding regular meetings of various committees constituted for this purpose as per the requirements in the interest of students.
- Maintenance of laboratories are as follows:-

The calibration, repairing and maintenance of sophisticated lab equipments are done by the technicians of related owner enterprises.

- Library:-

1. The requirement and list of books is taken from the concerned departments and HOD's are involved in the process. The finalized list of required books is duly approved and signed by the Principal.

2. Suggestion box is installed inside the reading room to take users feedback. Their continuous feedback helps a lot in introducing new ideas regarding library enrichment.
3. To ensure return of books, 'no dues' from the library is mandatory for students before appearing in exams.
4. Other issues such as weeding out of old titles, schedule of issue/ return of books etc. are chalked out / resolved by the library committee.
5. Book Magic software is used in the Library.

- Sports:-

Our college has a well equipped sports section. After class hours, regular practices are engaged by the students in college campus for team events and for athletics. Consequently, the college has won medals and cash prizes in various meets and different levels. Department of Physical Education keeps a well-maintained record of all the sports equipment. Procurement of new equipment is done by following a proper procedure. The equipment is purchased according to the requirements of the teams.

This Department is looked after by a qualified Physical Director, Mr. Shaju K Paul.

- Maintenance of Computers and IT facilities:

The office of the principal decides about purchasing necessary IT equipment as per recommendations received from the departments of the colleges and the administrative office of the college. IT facilities are maintained by computer skilled personnel of the college and they also take the responsibilities of periodic up-gradations of the IT resources.

- Classrooms and Building maintenance

Physical infrastructure which includes the classrooms,

administrative block, toilets, auditorium, seminar room, etc. are maintained by the caretaker under the supervision of AO's. Housekeeping staff are hired on a regular basis to do the cleaning of the whole building. Cleaning is done once daily and Saturdays are days of deep cleaning and maintenance of the building.

The plumbers, electricians and carpenters are available on campus. Through service request forms available in the administrative office, these maintenance can be done. A non-teaching staff of every department will be assigned to report necessary maintenance issues of the concerned department.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://iesce.info/uploads/userfiles/SOP-R.pdf

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

79

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	View File
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

135

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

A. All of the above

File Description	Documents
Link to Institutional website	www.iesce.info
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

374

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

374

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	No File Uploaded
Details of student grievances including sexual harassment and ragging cases	No File Uploaded

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

30

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

10

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	No File Uploaded
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

1

File Description	Documents
Upload supporting data for the same	View File
Any additional information	No File Uploaded
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports/cultural

activities at university/state/national / international level (award for a team event should be counted as one) during the year

5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.

0

File Description	Documents
e-copies of award letters and certificates	No File Uploaded
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	No File Uploaded

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

All the departments have a student society, student chapters of various professional associations and various social clubs. Head of the Department, staff and students of the respective departments in consultation with the principal elect the office bearers. The student society of every department conducts National level events every year in which they organize various technical and non-technical events. The students are members and volunteers of the events. They get funding from concerned agencies and partial funding from the institution and by student membership and sponsorship. The College has various academic and administrative bodies that have student representatives. This representation helps them in their overall development. These bodies create more avenues for students to develop technical skills, update knowledge, develop their personality and motivate them to do social service. There are staff advisers to guide students in the smooth and efficient conduct of these activities. Following are the various committees and societies of the college. Academic and administrative committees: • Ethics committee • Women Empowerment Cell • Anti-Narcotic Cell • Hostel Committee • SC/ST Cell • Sports committee • National Service Scheme (NSS) • Entrepreneurship and Development Cell (EDC) • Cultural

Committee

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/Activities%205 3 2.pdf
Upload any additional information	No File Uploaded

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)**5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year**

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File Description	Documents
Report of the event	No File Uploaded
Upload any additional information	No File Uploaded
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions) (Data Template)	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

IES College of Engineering Alumni Association (IESCEAA), the alumni association of IES College of Engineering, was conceived with the help and co-operation of the Principal, and Management of the college. The alumni association is not registered. IESCEAA supports the institution in fields of Curriculum development, Placement and Training, social obligations, among others. IESCEAA provides financial support to programs intended for alumni/student development. IESCEAA Middle East Chapter consists of UAE, Oman, Qatar.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File
5.4.2 - Alumni contribution during the year (INR in Lakhs)	D. 1 Lakhs - 3Lakhs
File Description	Documents
Upload any additional information	No File Uploaded
GOVERNANCE, LEADERSHIP AND MANAGEMENT	
6.1 - Institutional Vision and Leadership	
6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution	
<p>Vision</p> <p>IES College of Engineering strives to be an institution of repute to create competent engineering professionals endowed with innovation skills and entrepreneurial attitude for nation building.</p> <p>Mission</p> <p>M1.To achieve recognition from statutory bodies and become one of the top ranking institutions in the country.</p> <p>M2.To provide technological, communication, aptitude and life skill training to enable the students to become successful professionals.</p> <p>M3.To promote innovation by encouraging students to initiate design and product development activities.</p> <p>M4.To inculcate entrepreneurial attitude by providing necessary mentoring, training and guidance for students to establish start ups.</p>	

The Governing Council of IES college of engineering, recognizes and uses the contributions of leadership throughout the organization for promoting student success, sustaining academic quality, integrity and continuous improvement of the institution. Through established governance structures, processes, and practices, the Governing Council, administrators, faculty, staff, and students work together for the benefit of the institution. Within participatory governance committees, the process is to work with others in making decisions that are in the best interest of the College.

The institution follows a decentralized, democratic, and participatory method of governance with all stakeholders contributing actively in its administration. The Governing Council delegates authority to the Principal who in turn, shares it with the lower level in the hierarchy. The Heads of Departments, the Conveners of various committees and cells along with the staff representatives on higher decision-making bodies play an important role in determining the institutional policies and implementing the same. This system of governance is entirely in tune with the Vision and Mission of our Institution.

Strategic plan:

The Management of our Institution has drafted and approved a Perspective plan which is very much in tune with the vision and mission of the Institution. All the stakeholders, both external and internal, were consulted extensively before finalizing the draft of the Strategic Plan and each one had a unique perspective about what it would take for the organization to succeed.

Participation of Teachers:

IESCE ensures that the teaching community of the College is well represented in all the decision making bodies. In addition to their teaching responsibilities, teachers are members and conveners of the various committees constituted for the smooth and successful administration of the college. Governing Council, Academic Council, IQAC, Disciplinary Committee and Anti-ragging Cell, are some of the administrative and executive committees in which teachers are prominent members. Teachers are also engaged in actively mentoring the students to mould them into engineers of tomorrow. IESCE maximizes all its

efforts in organization and administration to attain its Vision and Mission.

File Description	Documents
Paste link for additional information	http://iesce.info/about-iesce
Upload any additional information	View File

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

Our institution implements innovative practices in managing administrative and academic matters. We track the effectiveness in decentralized and participative management.

- **Management:** All types of stockholders have their participation in various decision making processes. Management accomplishes superlative independence to the Institution in all concerns of conclusions.
- **Administration:** The Institution's firm desire to provide quality education to the society is well supported by the administrative wing. They assure flawless functioning in various areas like administrative, financial accounting, proper auditing and maintenance.
- **Faculty Members:** Faculties ensure to maintain a healthy ambience in keeping good relationships among students, faculties and the society. Our college faculty prioritizes keeping professional ethics in education.
- **Departments:** The HOD along with faculties provides academic excellence following the vision and mission of the Institution. Each department excels in their arena of responsibilities to attain quality.
- **Non Teaching Staff:** Non-teaching keeps well-routine practices for the attainment of operational and strategic objectives.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/constitution%2020-21%2025-Mar-2022%2015-32-00.pdf
Upload any additional information	No File Uploaded

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

A clear set of goals, when combined with an honest appraisal of an organization's strengths and weaknesses, shows you what's important, what's relevant and what's actionable in your environment. A strategic plan is a written document that points the way forward for your institution. It both lays out your goals and explains why they're important. The strategic planning process also helps you uncover ways to improve performance. It can, for instance, spark insights about how to restructure the organization so that it can reach its full potential.

Since the finalization of the plan and its approval by the Governing council, we have successfully executed many of those plans out of which some are elucidated here.

- To enrich the curriculum, additional courses were introduced.
- To make the teaching learning process more student centric, ICT tools were extensively used.
- Students were encouraged to participate in MOOC courses.
- E-Journals from IEEE and ASME were subscribed thereby increasing the quality of reference material available.
- Students were encouraged to make product models apart from their academic projects.
- Signed MoUs with different companies and scheduled training programs for students of all years/branches to enhance their skill development and employability prospects.
- The Mentor Mentee system is effectively implemented.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	http://iesce.info/uploads/userfiles/constitution%2020-21%2025-Mar-2022%2015-32-00.pdf
Upload any additional information	View File

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

The Organisational Structure

- **Executive Committee/ Governing Body:** The Executive committee of IES College of Engineering takes policy decisions regarding the academics and infrastructure developmental activities of the college. Executive committee of the institution is elected by the lifetime members of parent institution Ideal Education City e.g. President, Sr.Vice President, Vice President, General Secretary, Secretary, Jt.Secretary, Treasurer and 8 directors. The Principal and an educationalist are also part of the executive committee. The Executive committee decides various policies and takes major decisions including the staffing, authentication of the services, and promotion of the employees.
- **Administrative Committee:** The Principal leads the various activities of the college at the level of academic attainment. She has her team consisting of Head of the Departments, Placement Officer, Administrative Officer, System Administrator, Librarian etc. The principal is vested with the day to day activities for the smooth running of the college activities. The Academic Director acts as major advisory in the development of the Institution.
- **Functions of various bodies:** There are various committees working under the supervision of executive committee i.e. recruitment , Finance and accounting , Academic Audit , Building construction , Purchase , Grievance committee, etc.
- **Supporting Bodies:** The teaching staff, supporting staff, administrative staff eta takes part in the attainment of

various operations.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/6_2_2.pdf
Link to Organogram of the institution webpage	http://iesce.info/college-ornanogram
Upload any additional information	No File Uploaded

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	View File
Screen shots of user inter faces	View File
Any additional information	No File Uploaded
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non- teaching staff

In our Institution Staff welfare is given foremost importance. In connection with this, Existing welfare measure for teaching and non-teaching staff are itemized below:

Health insurance for eligible staff. Medical Leave & Maternity leave for eligible staff members. Staff members are eligible for Earned Leave. Advances for festivals. Employee gets fees concession for their ward. Canteen facility has been established in the campus which are accessible by staff during the working and extended hours. Internet and free Wi-Fi facilities are also available in campus for staff. Faculty members are provided with Individual cabin to facilitate good ambience. Vacations for staff members. Faculty development

programs(FDP) for faculties on regular basis. Skill development courses are organized for non- teaching staff to enhance their skills in work environment. Automation of attendance and leave using biometric system. All the faculty members who upgrade their research work through quality publications during the academic year are honored by management. Gratuity for the employees of the institution. All the staff members are treated on par with each other in obtaining benefits from the institution. Women Empowerment Cell is established for creating venues for women members to flourish and gain momentum.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/SOP-R.pdf
Upload any additional information	No File Uploaded

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

Nil

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

18

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	No File Uploaded
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

41

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	No File Uploaded
Details of teachers attending professional development programmes during the year (Data Template)	View File

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

Teaching and non-teaching faculty members of Higher Educational Institutions today have to perform a variety of tasks pertaining to diverse roles. In addition to instruction, Faculty members

need to innovate and conduct research for their self-renewal, keep abreast with changes in technology, and develop expertise for effective implementation of curricula. They are also expected to provide services to the industry and community for understanding and contributing to the solution of real life problems in industry.

Another role relates to the shouldering of administrative responsibilities and co-operation with other Faculty, Heads-of-Departments and the Head of Institute. An effective performance appraisal system for teaching and non-teaching faculty is vital for optimizing the contribution of individual staff to institutional performance.

The assessment is based on:

- A well-defined system for faculty appraisal for all the assessment years.
- Its implementation and effectiveness.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/6_3_5.pdf
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Institution conducts internal and external financial audits regularly

Auditing plays an important role in the proper functioning of an institution. There is a proper mechanism carried out by the institution for both internal and external audits.

- Internal audit is carried out by experienced and efficient personnel regularly.
- Proficient financial auditing agency conducts an external audit every year.

- Administrative office consolidates the documents and details of the various auditing activities.

The mechanisms used to ensure efficient utilization of financial resources are mentioned below:

- The Principal submits proposals on budget allocation after considering the recommendations proposed by the department heads to the management before the commencement of every academic year.
- The college budget comprises recurring expenses including salary, electricity bills, internet charges, maintenance costs etc. Thenonrecurring expenses like lab equipment purchases, other renovation and development expenses are also included.
- The accounts department monitors the expenses as per the budget allocated by the management.

File Description	Documents
Paste link for additional information	http://iesce.info/pdf/Auditedstatement2021.pdf
Upload any additional information	No File Uploaded

6.4.2 - Funds / Grants received from non-government bodies, individuals, philanthropers during the year (not covered in Criterion III)

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

NIL

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	No File Uploaded

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

The IES College of Engineering is a self-financed institution, where the funds are generated through the fees paid by the students. Additional funding is obtained from the faculty members through research proposals. The institute keeps effective mechanisms to monitor the efficient utilization of the various financial funds generated for the infrastructure development and academic operations. The accounts department of the institution monitors the recurring and non recurring expenses every year and allocates the funds generated for various developments of the college operations.

- Institution adheres to the utilization of the budget approved for the academic development and administration.
- Once the budget is approved, the purchase committee initiates the process, the quotations are called and after proper negotiation, orders are placed.
- The release of the payments is done after the delivery of respective goods and services as per the terms and conditions mentioned in the order of purchase.
- The purchase of the suitable equipment is cross-checked by the respective faculty-in-charge.
- Procurement process is supervised by the purchase committee, principal and financial department at various levels.

Expertise agency of chartered accountants conducts the external audit every year.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/6_4_3.pdf
Upload any additional information	No File Uploaded

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

The institution has an active IQAC committee that looks into the proper functioning and quality of output of the different activities undertaken. At the academic level, it monitors the syllabus coverage. Two sets of question papers are presented for internal examinations from which the committee can select

one for any given exam. Feedback from students is regularly collected, analyzed, and then passed on to the faculty concerned for further action. Further, online teaching modules are uploaded in the Google Classroom which is regularly monitored. There is an ongoing process to organize FDPs and webinars for updating the academic knowledge of teaching faculty. Frequent reports of the extent to which the syllabus is covered are collected. Regular internal auditing of the course files and tutor files is done by the IQAC committee through online mode due to pandemic situation.

NBA accreditation process started under IQAC. Work shops and seminars are given for faculties to get good awareness about each criteria to be filled in SAR The SAR work is completed and ready to upload by May 2021.

Students in all departments enrolled in value added courses in NPTEL and Coursera platform. Captivating learners programme for faculty members was conducted to make them comfortable in teaching learning process and prepare them to handle students in online mode. Two online PTA meetings per semester conducted by the department. All the students ,faculty and staff members were given a circular to adhere the covid protocol directives given by Higher Education department and Government . Administrative officer has done the arrangements for the reopening of college .The timetable for contact classes prepared adhering to the covid protocol Maintenance work for labs identified by the maintenance team and the necessary action were taken up inorder to give practical sessions for students for offline classes. Dr. Kiruthiga HoD/CSE submitted the report on scheme of MSME- HI/BI.

File Description	Documents
Paste link for additional information	http://iesce.info/uploads/userfiles/KTU%20internal%20Audit%20%2020-21.pdf
Upload any additional information	View File

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and

recorded the incremental improvement in various activities

The Institution has an active and bustling IQAC set up from 2017 onwards as per the guidelines given by NAAC . The IQAC reviews the teaching-learning process, structures, and methodologies of operations and learning outcomes by introducing several initiatives some of which are outlined below.

1. **KTU Academic audit:** IQAC conducts internal academic audits in all semesters and takes appropriate remedial actions to improve the quality of education. During the audit, course files, the University syllabus and lesson plan of the corresponding subjects are verified. CO-PO Mappings, CO attainments, and lecture notes of the corresponding subjects are also verified. To fulfill the content beyond the syllabus, IQAC persuades the Departments to conduct various workshops, Guest lectures, Industry visits etc. Lab stock verification has been carried out before the commencement of each academic year .During the pandemic situation IQAC has devised strategies for online audit.
2. **Conduct of Webinars/Quality improvement programs:** IQAC has been at the forefront of organizing webinars especially in this time of pandemic. In addition to that, IQAC has organized hands on training programs in conducting online classes so that the faculty at IES is now fully equipped to deal with the intricacies of this system.
3. **NBA SAR SUBMISSION:**

IQAC took the responsibility of giving enough training sessions and doubt clearing sessions for faculties in NBA accreditation process. And almost completed SAR works in May 2021, for three departments Computer science, Civil Engineering and Mechanical engineering.
4. **Students in all departments enrolled in value added courses**

File Description	Documents
Paste link for additional information	http://iesce.info/pm_Activities
Upload any additional information	View File

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

B. Any 3 of the above

File Description	Documents
Paste web link of Annual reports of Institution	http://iesce.info/uploads/userfiles/Annual%20Report%20-%202021.pdf
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	No File Uploaded
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

The institute promotes gender equality through various activities for empowering women and girls today to advance a sustainable tomorrow. Related events are carried out through the year in the campus.

Safety and Security Measures

1. A resident lady warden in the ladies hostel is employed

along with a separate resident warden for boys hostel.

2. CCTV cameras have been installed in main building, classrooms, campus corridors, common places etc.

3. Statutory Committee like Women Empowerment Cell (Internal Compliance Committee), Students Grievance Committee comprising of female faculty members is constituted as per the AICTE/KTU guidelines and is working effectively.

4. Antiragging Committee takes in stake of ragging incidents if any regularly.

5. Separate prayer room is arranged for Muslim girls students inside the campus.

Counselling

1. The College has a well defined student counselling system. Each student is allotted with a particular faculty member who will be his/her counsellor till the end of the course.

2. Each faculty has 15 to 20 students to mentor. This improves relationship between student and the mentor. It helps the mentor to know overall personality of each student.

3. Students meet their mentors for any grievance regarding gender related issues if any, personal problems, general issues, lack of facilities, academics etc.

4. A Students welfare committee is constituted to provide support to the educational process to advance the students academics and personal abilities.

Sick Rooms

Sick rooms for girls are provided in the institute.

Women empowerment cell conducted an online quiz competition on March 8 th, 2021 on behalf of International women's day. 23 students from various departments participated in it. Online certificates were provided to them.

File Description	Documents
Annual gender sensitization action plan	http://iesce.info/uploads/userfiles/7_1_1.pdf
Specific facilities provided for women in terms of:a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	http://iesce.info/uploads/userfiles/7_1_1%20A.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

D. Any 1 of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Waste Management Procedure

Solid Waste:-

1.The waste generated in the campus includes paper, glass, plastic etc. There are 3 different colored waste disposal bins for waste segregation in the campus, which are :-

- Blue - biodegradable waste**
- Yellow - plastic waste**
- Red - E-waste**

2.Used papers, workshop scraps etc. are given to external agencies.

3. Glass, metal plastic and non degradable wastes are given to external agencies where they are disposed or recycled according to the nature of waste.

4. Dried leaf litter is allowed to decompose over a period of time & becomes manure to plant.

5. The organic waste is treated in a biogas plant in the campus & gas produced is used for cooking (canteen) process.

6. Sanitary napkins incinerator has been installed to facilitate disposal of napkins.

Liquid Waste:-

1. Liquid waste generated in campus includes sewage, hostel and canteen effluent waste.

2. The above is treated in an STP and sludge is used as manure.

3. The laboratory waste water does not contain hazardous chemicals and periodical monitoring is done by maintenance team.

E-waste:-

1. The ones that can be reused are identified and used.

2. The E-waste which cannot be used is given to an authorized company for disposal.

E-WASTE MANAGEMENT - IES COLLEGE OF ENGINEERING

What is e-waste management?

E-waste or Waste Electrical and Electronic Equipment (WEEE) are loosely discarded, surplus,

obsolete, broken, electrical or electronic devices. Improper dismantling and processing of

e-waste renders it perilous to human health and our ecosystem. Therefore, the need of proper

e-waste management has been realized.

E-Waste Disposal Methods in IESCE

- Recycling of e-waste.
- Re-use of electronic devices.

Recycling of e-waste- A third party recycling and trading firm, "PROGRESSIV-E RECYCLING &

TRADING" is authorized to collect the E-waste generated within the college campus. It is the first

authorized (given by Kerala State Pollution Control Board) E-waste collection and handling unit in

Thrissur district. PROGRESSIV-E RECYCLING & TRADING collects the electronic waste from the

Institution, segregate and sort it. Aiming to create a Zero E-Waste Society all the materials

collected is dismantled and destroyed as per the Kerala PCB guidelines at their facility centre shed.

Re-use of electronic devices- There use of electronic devices such as desktops, laptops,

is applied to devices that have already been manufactured and are no longer in use (disposal)

and will be recycled unless they are refurbished /reconditioned (repaired, upgraded) and

used again or redistributed to other users.

DESTRUCTION / RECYCLING CERTIFICATE

A destruction / recycling certificate is issued from the recycling agency in every two years while

the e-waste accumulated in the college campus is collected for

dismantling and destruction.

The quantity of e-waste products collected is mentioned in the certificate.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	No File Uploaded
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

B. Any 3 of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

A. Any 4 or All of the above

File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities

C. Any 2 of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	View File
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

C. Any 2 of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	No File Uploaded
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

IESCE provides an equitable, rationale, fair and encouraging environment to students to grow to full of their capacity. There is a friendliness and amity among students belonging to different socio-economic and cultural strata of the society. The college administration and teaching staff make it a point to motivate students to imbibe the tenets of inclusive growth.

Analysing the students' profile, it is clear that they come from differently placed sections of the society. There are economic, social and gender based differences among them and these diversities come to naught when they enter in the precinct of the college. The teachers are committed to impart education to students without any impartiality. In regular classes, the students have become the part of a well energized and cohesive group whose basic need is learning in harmonious way. The teachers make extra efforts to help students who are weak in studies by arranging special classes after college hours. The equitable educational environment provided by the college helps boys and girls to develop themselves in a very healthy environment. The college administration is extra vigilant to provide safe and secure environment to girl students. The Women

Empowerment Cell, the Anti Ragging Cell, NSS units work hard in organizing awareness programmes to make students aware of the need of equitable social conditions.

The college administration takes welfare measures to provide fair academic conditions to all students. Scholarships are

provided for the students coming from socio-economically modest sections of the society to provide equal educational opportunities to them. The institution also provides scholarship to needy students to reduce the dropout rate due to economic hardships. It also helps students through supporting schemes such as Earn While You Learn.

Through NSS activities, students are made aware of social work and they imbibe the values of togetherness, social amity and team work. During sports day, arts fest and other celebrations, students are given so many roles and responsibilities that the respective diversities get melted while completing different group tasks. The students who are involved in such activities are socialized to work in group for societal welfare. All festivals like Onam, Ramadaan, Christmas, Holi are celebrated by the management, staff and students with great happiness and sheer enthusiasm.

Celebration of National Days Every year Institute celebrates Republic Day, Kerala Piravi Day and Independence day on January 26, Nov 01 and August 15 respectively. The celebration is attended by Students, Teaching and Non-teaching Staff, Invitees, guests and any attendees. Flag hosting with National anthem and oath of national integrity followed by distribution of sweets is the regular decorum of the programme.

There is deep seated harmony in the overall functioning of the college and the teachers and college administration work with students to create an enviable environment of inclusive growth of all.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	No File Uploaded

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

The institution sensitizes the students and the employees to the constitutional obligations about values, rights, duties and responsibilities and constantly works upon to nurture them as better citizens of the country through various curricular and

extra-curricular activities.

The institute hoists the flag during national festivals and invites eminent persons to inspire students and staff by informing the qualities of freedom fighters and to emphasize the duties and responsibilities of citizens. The college establishes policies that reflect core values. Code of conduct is prepared for students and staff and everyone should obey the conduct rules. The institution encourages participation of students in Sports and Games, NCC and NSS at National level to strengthen nationwide bond and relation. The institution takes pride of raising up successful leaders among the students by conducting the Student Council election every year. The elected representatives are given leadership training and delegate the responsibilities of organising college programmes with the support of other student volunteers. Staff members participate in the national celebrations, Flag Day and take oaths for the cause of the nation.

The institution takes many initiatives like conducting awareness campaigns, organizing orientation programmes, training programmes, seminars and workshops to sensitize the future leaders to inherit human values coping with the constitutional obligations. A special quiz competition is organized on The Republic day every year by the IES ICC & ETHICS COMMITTEE for the students of IESCE and this year the topic was "Freedom Struggle and Constitution Of India".

Various departments of the institution and NSS unit are actively involved in conducting several activities for inculcating values for being responsible citizens are given below-

Blood Donation Camps

Cleaning of Campus

Cleaning of canals in the panchayat

Flood Relief & collection and distribution of relief materials in worst affected areas

Re-bulding houses destroyed in floods

Nation-wide sanitation campaign "Swachhata hi Seva", Seva Din,

Swachh Bharat Abhiyan, Yoga Day International Human Rights Day, World water day, Earth day, Womens day, traffic rule awareness etc. are all celebrated to bring about awareness among staff and students.

Classes on how to manage stress, positive thinking, yoga and self defense are conducted for staff and students by experts to improve their physical and mental health. One day motivational work shops are also held often to energize the students and help improve their academic and social skills.

Celebration of National Days Every year Institute celebrates Republic Day, Kerala Piravi Day and Independence day on January 26, Nov 01 and August 15 respectively. The celebration is attended by Students, Teaching and Non-teaching Staff, Invitees, guests and any attendees. Flag hosting with National anthem and oath of national integrity followed by distribution of sweets is the regular decorum of the programme.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	http://iesce.info/uploads/userfiles/7_1_9.pdf
Any other relevant information	Nil

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

C. Any 2 of the above

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	View File
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Republic Day -Jan 26th

March 8th -Women's Day

Holi

Onam

Republic Day

New Year

Christmas

Teachers day

Keral Piravi Day

Gandhi Jayanthi

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

IES College of Engineering

Best Practices

Academic Year 2020-21

Practice I:

1. Title of the Practice:

"Student chapters for MOOC Courses"

2. Objective of the practice

- A MOOC is an online course with the option of free and open registration, a publicly-shared curriculum, and open-ended outcomes.
- MOOCs integrate social networking, accessible online resources, and are facilitated by leading practitioners in the field of study.
- Most significantly, MOOCs build on the engagement of learners who self-organize their participation according to learning goals, prior knowledge and skills, and common interests.
- They made progress with the higher-level outcomes of applying knowledge to other situations and synthesizing information.

3. Context

- The common duration of a MOOC is from 6 to 12 weeks. A MOOC is accessible 24 hours a day, 7 days a week. The majority of the content is delivered asynchronously

(meaning students can access it in their own time and at their own pace). However, sometimes there can be optional synchronous events such as 'live' webinars (interactive sessions) which require participants to join in at specific dates/times.

- A standard class becomes in a MOOC a set of videos of 5-10 minutes each.
- The learning of students in a MOOC is usually assessed by multiple-choice questions.
- An important component of MOOCs is assignments. Student have to upload assignment solutions into the MOOC platform. Assignments can be evaluated and graded:
 - Automatically when possible.
 - Peer-to-peer: students evaluate and grade themselves.
 - Another component is the forum, where students post questions that other students can answer.
- Usually, there are no pre-requisites for taking a MOOC, apart from having access to a computer with an internet connection. Most of the time, the educational or academic background of students isn't important.
- Students usually don't need to buy any books for these courses, because all reading is either be provided within the MOOC content or is linked to open access texts.

4.The practice and the Evidence of Success

Two Students chapters were started in IESCE for the benefits of the students

1. Swayam NPTEL Student Chapter during March 2019

1. SWAYAM is a programme initiated by Government of India and designed to achieve the three cardinal principles of Education Policy viz., access, equity and quality. The objective of this effort is to take the best teaching learning resources to all, including the most disadvantaged. SWAYAM seeks to bridge the digital divide for students who have hitherto remained untouched by the digital revolution and have not been able to join the mainstream of the knowledge economy.
2. This is done through a platform that facilitates hosting of all the courses, taught in classrooms from Class 9 till post-graduation to be accessed by anyone, anywhere at any time. All the courses are interactive, prepared by the best teachers in the country and are available, free of cost to any learner. More than 1,000 specially chosen faculty and teachers from across the country have participated in preparing these courses.
3. The courses hosted on SWAYAM are in 4 quadrants - (1) video lecture, (2) specially prepared reading material that can be downloaded/printed (3) self-assessment tests through tests and quizzes and (4) an online discussion forum for clearing the doubts. Steps have been taken to enrich the learning experience by using audio-video and multi-media and state of the art pedagogy / technology.
4. Enrolment: more than 450 enrolments has been done and many have got their certification too, Special certification like "elite" certificates were seen in all the batches. Some sample certificates are attached below

1. Coursera Student Chapter during March 2020

Coursera student chapter in IESCE was started during 2020, which helped the students a lot during the lockdown period. Coursera Inc is a U.S.-based massive open online course provider founded in 2012 by Stanford University computer science professors Andrew Ng and Daphne Koller. Coursera works with universities and other organizations to offer online courses, certifications, and degrees in a variety of subjects.

Enrolments:

More than 1700 Enrolments in various subjects were seen for the past 2 years. It was properly utilized and those certificates helped the final year students a lot during their interviews.

1. Challenges

- During Lockdown students those who doesn't have proper electronic gadgets were not able to utilize this opportunity.
- Internet Issues
- Student chapter was given free for only 1 year then some charge was imposed so financially backward students found it difficult.

Practice II:

1. Title of the Practice:

"Product development for addressing covid related issues"

1. Objective of the practice:

The objective of the practice is to develop useful products by which we can fight against the Covid-19.

1. Context:

- To create awareness regarding covid spread.
- To spread the importance of maintaining covid protocols.
- To help doctors in fighting against the Covid crisis.

1. The Practice

IESCE Students have developed two major inventions namely

1. HABLOSAN (TALKING SANITIZER)
2. AZIMA ALTRA ROBO

1. HABLOSAN (TALKING SANITIZER)

Components Required

Ultrasound Sensor, IR sensor, Relay module, Voice module, DC Motor

Working

- ultrasonic sensor detects the movement within 1 meter.
- when movement detected sends a signal to the controller
- controller sends a signal to the voice playing module to play the reminder voice recordings
- when IR sensor gets triggered it sends a signal to controller
- controller turns on the motor for 1seconds

Aim

- To get contactless sanitizer dispensing
- Automatic Working
- Reminder for sanitizing

Block Diagram

1. AZIMA ALTRA ROBO

Robotic nurses are robots that help patients physically move around or perform simple tasks like taking vital signs or delivering medicine.

Some robotic nurses serve as interfaces for doctors to use over distances to communicate with patients.

Robots in medicine help by relieving medical personnel from routine tasks, that take their time away from more

pressing responsibilities, and by making medical

procedures safer and less costly for patients.

They can also be used for transporting hazardous medical drugs.

Abstract

From a view through emerging technologies, it is necessary to create a revolution in the medical sector. Day by day the number of diseases and pathogens are increasing, lack of efficient nurses in those emergency situations are the reason behind the innovation of this project.

In an emergency scenario like a pandemic there is an urgent requirement to develop and implement something that can make up for the lack of efficient nurses in the field. The project is mainly concerned on checking the vital signs of patients like heartbeat, blood pressure, Electro-cardio Graph (ECG) and reports it to the concerned physician.

Robotic nurses are robots that help patients physically move around or perform simple tasks like taking vital signs or delivering medicine. Some robotic nurses serve as interfaces for doctors to use over distances to communicate with patients.

Robots in medicine help by relieving medical personnel from

routine tasks, that take their time away from more pressing responsibilities, and by making medical, procedures safer and less costly for patients. They can also be used for transporting hazardous medical drugs.

Block Diagram

1. Evidence of Success

- The implementation of the robot in hospitals helps to reduce the human contact with isolated patients having contagious diseases.
- The robot helps in reducing and controlling the spread of a contagious disease in the time of a pandemic like Covid- 19 (corona virus).
- The vital readings taken of the patient by the robot is instantly send to the doctor in the cabin so the doctor can keep a real-time tab on the patient.

1. Future Scope

- The future versions of our robot can be more humanoid and interactive.
- This robot may also be used in other fields like chemical industry to minimize the human contact with toxic chemicals and hazardous materials.
- More humanoid and advanced robots can be used to assist doctors in treating injured soldiers and civilians at the time of a war.

File Description	Documents
Best practices in the Institutional website	http://iesce.info/pm_bestpr
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The Institute has an Innovation and Entrepreneurship Development Cell (IES IEDC) established in 2016. Innovation and Entrepreneurship Development Centre (IEDC) is a flagship initiative of Kerala Startup Mission to promote innovation and entrepreneurship among the student and academic fraternity in the educational institutions in the State of Kerala and considered as an umbrella programme that would play an instrumental role in fostering innovation culture in Academic institutions. It is a student's organization established in the institution devoted in promoting the spirit of entrepreneurship among themselves. It also aims to conduct ED courses for students with the help of Kerala Startup Mission ,MSME EDI, India. IES IEDC organizes seminars and various workshops periodically. Successful entrepreneurs are invited for interactive session with the students, for making the students understand business ethics and start-up procedures. The cell also organizes idea competition and mentor them to transform their ideas into reality Officials from different sectors are also invited as guest speakers for sessions to provide guidance on financial and registration aspects of startups. PROGRAMME DESIGN OF IEDC IEDC Programme design systematically helps the Faculty in -charge to nurture the innovation culture among the young innovators. Beyond innovation, while engaging with IEDC activities, students are benefitted byan overall development in their personality, soft skills, technology skills and the 21st century skills. IEDC programme allow students to explore new ideas, test them and develop prototypes using the resources available in IEDC. IEDC system adopts a "learning by doing" philosophy and promotes "Do It Yourself" culture. IEDC programmes are designed in three distinct but connected verticals namely Innovation, Technical and Entrepreneurship. Students will be exposed to a number of interventions in these three areas. In the first phase i.e. Innovation phase, students will be experienced the innovation thinking, tools of

innovation and innovation mindset. Students will be experienced in design thinking, ideation which will help them to develop a new perspective towards social and community problems. In the second phase, Student will undergo a skill appreciation workshop and will be introduced to new technologies, future of work, concepts of computational thinking and other sectoral areas. Students are expected to take up efforts to upgrade skills in their chosen areas. And finally, Students will be exposed to business and entrepreneurship aspects through workshops and case studies. Tools such as Business Canvas Modeling workshops, Design Thinking workshops will be conducted in this phase. Students begin working in teams, towards solving the identified problems, leveraging their learning from the previous phases.

File Description	Documents
Appropriate web in the Institutional website	View File
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

1. Students are advised to develop product development as a part of their final year project.
2. Faculties are requested to increase the number of SCI, Scopus, UGC Publications.
3. Senior faculties are advised to increase the number of patents.
4. Students will be encouraged to develop more ideas from the basic (small prototype) to develop a startup.
5. since the NBA visit didn't happened on the allocated date, planned to update the SAR and request for NBA visit at the earliest.
6. Planned to Increase the level of placement ie now almost 80% students are getting placed but with less LPA, So from next year many placement trainings, mock interviews will be conduct in-order to make the students place with higer LPA.
7. Planned to apply for MSME-HIBI scheme through which students will get a better exposure to the real working experience.

