



Yearly Status Report - 2019-2020

Part A

Data of the Institution

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 own campus	Yes
Phone no/Alternate Phone no.	04872309966
Mobile no.	9787814100
Registered Email	mail@iesce.info
Alternate Email	principal@iesce.info
Address	IES COLLEGE OF ENGINEERING P.O. CHITTILAPPILLY THRISSUR.
City/Town	THRISSUR
State/UT	Kerala
Pincode	680551

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Rural			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		Ms. Padmapriya V K			
Phone no/Alternate Phone no.		04872309965			
Mobile no.		9847054363			
Registered Email		iesiqac@iesce.info			
Alternate Email		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: Weblink :		http://iesce.info/uploads/userfiles/Academic%20Calendar19-20(2).pdf			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B+	2.65	2017	18-Sep-2017	17-Sep-2022
6. Date of Establishment of IQAC			20-Jun-2016		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC	Date & Duration		Number of participants/ beneficiaries		
Meeting of IQAC	12-Aug-2019 1		11		

Meeting of IQAC	04-Nov-2019 1	11
Meeting of IQAC	06-Feb-2020 1	11
Meeting of IQAC	08-Apr-2020 1	11
KTU internal audit	15-Oct-2019 1	72
KTU internal audit	06-Nov-2019 1	72
KTU internal audit	09-Mar-2020 1	72
KTU internal audit	07-Nov-2019 1	72
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
No Data Entered/Not Applicable!!!				
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. Journal publication of UG and PG students 2. Implementation of new modules of ERP system 3. Updation of NAAC Files 4. Participation of Kerala Hackathon 5. Preparation of NBA Accreditation Process 6. Online Classes and exams

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Journal publication of UG and PG students	Journal Publication of students improved
Implementation of new modules of ERP system	Departments submitted their valuable suggestions regarding the new modules
Updation of NAAC Files	NAAC internal audit has been done. All files were updated
Participation of Kerala Hackathon	Projects have been submitted by the departments to Kerala Hackathon
Preparation of NBA Accreditation Process	Workshop on NBA preparedness was conducted by Prof Kalavathy.
Online Classes and exams	Faculty handled online classes due to pandemic and online internal exams were conducted successfully.
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Academic Council	25-Mar-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

29-Jan-2020

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)

• Linways User logins, • Admission module o Student ad module • Linways AMS Features o Lesson planner o Cour distribution o Timetable management o Online assignmen examination o Online discussion forum. o Attendance ma

report generation o Publish marks and Performance ana based reports o Messaging • Linways AMS Mobile Applica Module • OBE Module

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

IES college of Engineering is affiliated to APJ Abdul Kalam Technological University (KTU), Thiruvananthapuram from 2015 onwards. So, our program curriculum is as per the scheme and syllabi of affiliated universities The University to which the college is affiliated practices significant degree of decentralization and its academic administration is organized in the form of clusters and the college is under the Thrissur cluster of KTU. Subject is allocated to faculty well in advance. The curriculum implementation process of the institution starts with an Annual Academic Planning and Calendar for the year, which is strictly followed. Several procedural and practical supports are provided by the institution in the course of curriculum planning and implementation. Preparation of Course Plan, Class teachers and Mentors, appointment of a Controller of Examination, Industry/agency internships, signing MoUs. Timetables, course plans and portions covered daily are entered in the Linways software. The software monitors the student attendance and progress in teaching and is accessible to all the stakeholders. Several faculty members contribute in the curriculum designing at the University level by being members of different Boards of Study. The gaps in the University curriculum are identified through a need assessment process and are dealt with by offering add on courses, training programs and entrepreneurial and creative engagements. Periodic reviews at the department level ensure the achievement of curriculum objectives.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
NIL	NIL	Nil	0	0	NIL

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	NIL	Nil
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	CIVIL ENGINEERING	01/08/2019
BTech	COMPUTER SCIENCE & ENGINEERING	01/08/2019

BTech	ELECTRONICS & COMMUNICATION ENGINEERING	01/08/2019
BTech	ELECTRICAL & ELECTRONICS ENGINEERING	01/08/2019
BTech	MECHANICAL	01/08/2019
Mtech	GEOTECHNICAL ENGINEERING	01/08/2019
Mtech	COMPUTER SCIENCE & ENGINEERING	01/08/2019
Mtech	VLSI DESIGN	01/08/2019

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	262	Nil

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Machine Learning, python and R programming	13/02/2020	27
Python Django	07/02/2020	60
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	COMPUTER SCIENCE AND ENGINEERING	27
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	2
BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	26
BTech	CIVIL ENGINEERING	42
BTech	MECHANICAL ENGINEERING	36
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

Management: • Involves in strategic planning and administrative activities for the development of the institution • Providing physical, human and financial resources Faculty: • Suggestions for the establishment of Vision, Mission of the department • Defining and redefining the PEOs and PSOs • Suggests amendments in curriculum design Students: • Providing feedback through course end survey and exit survey are considered for the overall improvement of the Program which includes changes in curriculum, placement and training activities etc Support staff: • Responsible for smooth functioning of the laboratories, maintenance and care of resources/services of the institution Employer:•Represents the major end users of our graduates • Provides information on latest trends and requirements of the industry • Feedback obtained from employers helps to bridge the curriculum gaps and introduce new electives offered by industry Industry: • Suggest topics for Industry oriented guest lectures, one credit courses, workshops and training programs including Value Added Courses, project internship and recruitment • Provide feedback and suggestions on one credit courses and latest topics to be included in the program Alumni: • Suggest topics for Industry oriented guest lectures, one credit courses, workshops and training programs including Value Added Courses, project internship and recruitment • Provide feedback and suggestions on one credit courses and latest topics to be included in the program Parents: • Feedback received from parents during ParentTeachers meeting are considered for amendment in the program • Expect their wards to acquire good professional career and higher education or entrepreneurship

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	VLSI Design	18	11	11
Mtech	Computer Science Engineering	18	9	9
Mtech	Geotechnical Engineering	18	9	9
BTech	Mechanical Engineering	60	40	40
BTech	Electrical & Electronics Engineering	60	32	32
BTech	Electronics & Communication Engineering	60	32	32
BTech	Computer Science Engineering	60	55	55
BTech	Civil Engineering	60	59	59

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	218	29	63	6	69

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
69	69	5	14	14	5
View File of ICT Tools and resources					
View File of E-resources and techniques used					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The student mentoring system plays a vital role in the institution and the objectives are: • To develop effective communication and visibility between staff members and students. • To mentor students to meet the current industry requirements and seek training and career opportunities • To identify and address the problems of students in personal and academic background and provide the solutions • To encourage the students in advanced learning methodologies and make them to do projects relevant to their career prospects • To reduce drop-out ratio • To encourage the students to participate in various co-curricular and extracurricular activities at the beginning of every Academic year, orientation sessions are organized for all students to understand the mentoring system. Academic Calendar is being shared with the students by the department. Students are assigned to each mentor and their profiles are maintained to track their progress. Academic and Personal Counselling is provided through mentoring. Frequent student interaction is done through one to one meeting, social networking sites, class committee, and other academic committees. The wards' performances are communicated to the parents regularly, and special counselling is also provided for both the students and parents. Students are highly motivated wherever necessary to participate in extra/ co-curricular activities and also to upgrade their skills to meet the current industry trends. Economically weaker students are guided to obtain a scholarship from the college, government, and various trusts. Special coaching classes are given for slow learners. The outcome of the mentoring system in the current year • Significant improvement in the teacher student relationship • A progression in Students' participation and awards in co-curricular and extracurricular activities including women empowerment. • Placed Students in high profile companies • Pursuing their master's in prestigious institutes in and around the world • Shown outstanding performance in sports tournaments • Organized different events of intercollegiate district sports and games championship

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
247	69	1:4

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
69	69	Nil	Nil	5

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from	Designation	Name of the award, fellowship, received from
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	state level, national level, international level		Government or recognized bodies
2019	Ms Anjali Baby	Assistant Professor	Appreciation for dedication in flood relief work
2019	Mr. John Chembukkavu	Assistant Professor	Dedication in electrical maintenance work in B. arch building
2019	Dr.G.Kiruthiga	Associate Professor	Top 50 distinguished HODs (CSE/IT) in higher education across India.
2019	Ms.Anju E M	Assistant Professor	Award for outstanding performance
2019	Ms.Anju E M	Assistant Professor	Appreciation for dedication in flood relief work
2019	Ms. Steffy Maria Simon	Assistant Professor	Award for contribution to excellent academic performance
2019	Mr. John J Thanikkal	Assistant Professor	Award for outstanding performance
2019	Ms. Prabavathi Prabhakaran	Assistant Professor	Award for contribution to excellent academic performance
2019	Mr.Joseph George	Assistant Professor	Award for contribution to excellent academic performance
2019	Mr.Rinto K Anto	Assistant Professor	Award for contribution to excellent academic performance
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester- end/ year- end examination
Mtech	PG	S1/S3	31/12/2019	31/01/2020
BTech	UG	S1/S3/S5/S7	31/12/2019	31/01/2019
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

In each semester two internal tests have been conducted. Also, continuous evaluation of students for each subject is done by respective faculty through assignments, seminars, etc. A separate Examination cell is constituted for the smooth conduct of the internal exams. End semester examination has been conducted by the university (KTU) during the two time periods one in April to May and the other in November to December.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The course delivery and the conduct of activities were planned in accordance with the academic calendar. All the academic and extracurricular activities of the Department were conducted with strict adherence to the academic calendar. The Academic Calendar serves as an information source and planning document for students, Faculty, and the Department. Based on the KTU academic calendar, a college calendar is prepared at the beginning of each semester with a clear plan of conducting examinations, co-curricular and extracurricular activities of the college. Each department has prepared a department wise academic calendar listing the plan of the activities of the department. Subject allocation is done well in advance for the staff to prepare lesson plans and hard/soft copies of the lecture notes. Lesson plan with course outcomes is prepared by the faculty handling the subject before the commencement of the semester and is duly approved by the Head of the Department and made available to the students. Execution of lesson plan has been documented in the course file to ensure coverage of syllabus, monitored by the Head of the Department.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

http://iesce.info/pm_poco

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG	BTech	CIVIL ENGINEERING	29	29	100
UG	BTech	COMPUTER SCIENCE AND ENGINEERING	19	18	94.73
UG	BTech	ELECTRONICS AND COMMUNICATION	16	14	87.5
UG	BTech	ELECTRICAL AND ELECTRONICS ENGINEERING	23	14	60.87
UG	BTech	MECHANICAL ENGINEERING	32	30	93.75
PG	Mtech	GEOTECHNICAL	14	14	100

		ENGINEERING			
PG	Mtech	COMPUTER SCIENCE AND ENGINEERING	4	4	100
PG	Mtech	VLSI DESIGN	4	4	100
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

http://iesce.info/pm_ssur

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Students Research Projects (Other than compulsory by the University)	365	KSCSTE	0.1	0.1
Students Research Projects (Other than compulsory by the University)	365	KSCSTE	0.1	0.1
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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Motivational talk on professional bodies and leadership	ELECTRONICS AND COMMUNICATION ENGINEERING	20/08/2019
Workshop on Machine learning and its applications	COMPUTER SCIENCE ENGINEERING	14/10/2019
How to prepare a plan, estimate and building permit in Kerala based on KMPR	CIVIL ENGINEERING	10/07/2019
Influence of an engineer in a society.	CIVIL ENGINEERING	16/08/2019
Demonstration of Marshall test.	CIVIL ENGINEERING	06/02/2020

Civil engineer society :Impact of communication	CIVIL ENGINEERING	25/09/2019
Seminar Power system resilience	ELECTRICAL AND ELECTRONICS ENGINEERING	27/01/2020
Workshop on Electronic Design Using Arduino	ELECTRONICS AND COMMUNICATION ENGINEERING	23/09/2019
Recent trends in IOT	COMPUTER SCIENCE ENGINEERING	13/06/2019

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NIL	NIL	NIL	Nil	NIL
No file uploaded.				

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	Geenponics .Co	SOFTWARE COMPANY	07/06/2019
NIL	NIL	NIL	Nilavara online	SOFTWARE COMPANY	13/06/2019
NIL	NIL	NIL	Trash Spy.Co	SOFTWARE COMPANY	21/06/2019
NIL	NIL	NIL	Candla	HARDWARE STARTUP	05/07/2019
NIL	NIL	NIL	Lightpack	HARDWARE STARTUP	10/07/2019
NIL	NIL	NIL	Element Construction Services	CONSTRUCTION COMPANY	03/06/2019
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
ELECTRICAL AND ELECTRONICS ENGINEERING	1

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	COMPUTER SCIENCE AND ENGINEERING	11	5.72
International	CIVIL ENGINEERING	18	5.1

International	ELECTRONICS AND COMMUNICATION ENGINEERING	10	4.4
International	ELECTRICAL AND ELECTRONICS ENGINEERING	11	1.68
International	MECHANICAL ENGINEERING	10	6.24
International	SCIENCE AND ENGINEERING	8	2.78
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
COMPUTER SCIENCE AND ENGINEERING	4
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Improving the Training Pattern in Back-Propagation Neural Networks Using Holt-Winters' Seasonal Method and Gradient Boosting Model	Dr.S. Brilly Sangeetha	Applications of Machine Learning	2020	2	IES College of Engineering ,Kerala, India	19
An adaptive signal strength based localization approach for wireless sensor networks	Dr.G.Kiruthiga	Cluster Computing The Journal of Networks, Software Tools and Applications	2019	4	IES College of Engineering ,Kerala, India	7
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
An adaptive signal strength based localization approach for wireless sensor networks	Dr.G.Kiruthiga	Cluster Computing The Journal of Networks, Software Tools and Applications	2019	4	7	IES College of Engineering ,Kerala, India
Improving the Training Pattern in Back-Propagation Neural Networks Using Holt-Winters' Seasonal Method and Gradient Boosting Model	Dr.S. Brilly Sangeetha	Applications of Machine Learning	2020	2	19	IES College of Engineering ,Kerala, India

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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	8	117	1	17
Presented papers	1	1	Nil	Nil
Resource persons	Nil	Nil	Nil	Nil

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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Flood relief works	nss	26	114

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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Flood relief works	Appreciation Award for Flood relief works	Kerala Police Academy	70
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
National Service Scheme	Mullassery Block Panchayath	Repair and rework of houses and hospital under Mullassery Block Panchayath	14	70
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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
nil	nil	nil	Nil
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
TRAINING	Business English Communication	SMART-MOVES	22/01/2020	28/05/2021	43
TRAINING	UiPath RPA Programme	ASAP	07/10/2019	07/02/2020	60
TRAINING	Python Django	TCS-ION	07/02/2020	07/05/2020	60
INTERNSHIP	Machine Learning, python and R programming	LIVEWARE	13/02/2020	13/03/2020	27
INTERNSHIP	Python Django	TCS-ION	07/02/2020	07/05/2020	7

TRAINING	FIELD TRIP	J.V.S Electronics Banglore	01/11/2019	01/11/2019	14
Internship	Internship programme	Vinayaka Consultancy	22/12/2019	29/12/2019	19
Internship	Internship programme	Build Designers, Mappranam	22/12/2019	29/12/2019	14
Industrial Visit	Tea history and Processing	Doddabetta Tea factory	02/11/2019	02/11/2019	22
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
LINWAYS TECHNOLOGIES PVT LTD	09/07/2019	ACADEMIC MANAGEMENT	600
LUMINOUS INDUSTRIAL ACADEMY CHENNAI	29/02/2020	SKILL DEVELOPMENT PROGRAMS	50
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
9.5	10

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Others	Existing

Classrooms with Wi-Fi OR LAN	Existing
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
BOOK MAGIC	Partially	5.0	2015

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	173	52182	54	22826	227	75008
Reference Books	127	156123	31	4163	158	160286
Journals	20	48374	Nil	Nil	20	48374
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	Nil
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	475	16	16	6	4	5	7	100	0
Added	0	0	0	0	0	0	0	0	0
Total	475	16	16	6	4	5	7	100	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Youtube Channel	http://www.youtube.com/c/EDULINEFORCSES_TUDENTS

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
25	21.96	51	47.82

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

• 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 equipment's 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 exam. 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 Library.

• Sports:- Our college has 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 keep a well-maintained record of all the sports equipment. Procurement of new equipment is done by following a proper procedure. The equipment are purchased according to the requirement 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 equipments 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 staffs are hired on 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 in campus. Through service request forms available in administrative office, these maintenance can be done. A non-teaching staff of every department will be assigned to report necessary maintenance issues of concerned department.

<http://iesce.info/uploads/userfiles/SOP-R.pdf>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	IES Management Scholarship	162	4455000

Financial Support from Other Sources			
a) National	MOMA SCHOLARSHIP	45	Nil
b) International	NIL	Nil	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Tuning Programme (First Years)	08/07/2019	201	Inhouse
Orientation programme	15/07/2019	201	Invited Guests
Bridge /induction courses	16/07/2019	201	In house
Yoga session	22/07/2019	201	Yoga Acharya Shri Suvrathan Gurukkal
Personality Development Program	25/07/2019	201	Engr. Nesaian Reginal Wilfred Professor, Salalah College of Technology, Ministry of Manpower, Government of Oman ,Sultanate of Oman
Seminar on Fire Rescue	26/07/2019	218	Department of Fire Safety, Thrissur Unit
Mentoring by faculty(CE)	01/08/2019	165	Group tutors faculty
Life skills(CE)	01/08/2019	39	Concerned Faculty
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Entrepreneurial Motivation Talk by renowned Entrepreneur Mr. Shakeel Ahmed, CEO	Nil	60	Nil	34

	ICT Codes Ltd.				
2019	TCS Ninja Training Program conducted by Six Phrase	42	Nil	2	34
2019	Training Program CSR Of Barclays Bank, London byRubicon Skill development Pvt Ltd,Pune	106	Nil	Nil	34
2020	First year Training program started for BECby Smart Moves	218	Nil	Nil	34
2020	NSDC Training	Nil	22	Nil	34
2020	"Seminar on Safety Engineering by Mr. Jithu Gopinath , Technical Manager , HSEI "	Nil	80	Nil	34
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
5	5	15

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Sutherland Global Services Pvt Ltd	50	17	Bentley System	23	1
View File					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of	Programme	Department	Name of	Name of
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	students enrolling into higher education	graduated from	graduated from	institution joined	programme admitted to
2019	1	B.Tech	Electrical and Electronics Engineering	Model Engineering College	M.Tech in Energy Management
2019	2	B.Tech	Computer Science & Engineering	Thejus Engineering College, Vellarakkad	M.Tech in Computer Science and Engineering
2019	1	B.Tech	Computer Science & Engineering	Government Engineering College, Palakkad	M.Tech in Networks and Security
2019	3	B.Tech	Civil Engineering	IES College of Engineering	M.Tech in Geotechnical Engineering
2019	1	B.Tech	Civil Engineering	Universal College of Engineering	M.Tech in Structural Engineering
2019	1	B.Tech	Civil Engineering	Vidya Academy of Science and Technology	M.Tech in Structural Engineering
2019	1	B.Tech	Mechanical Engineering	Jaipur National University, Jaipur	MBA (with specializati on in operations management)
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	1
View File	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Annual Sports Meet	Institutional Level	406
Inter department Games	Institutional Level	252
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019		National	1	Nil		SHIHAS V

University level repr esentation			IES18CE039	S
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

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 • Class Committee • Sports committee • Ethics committee • Hostel Committee • Women Empowerment Cell • Anti-Narcotic Cell • National Service Scheme (NSS) • Cultural Committee • Entrepreneurship and Development Cell • SC/ST Cell • Alumini Association

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

2903

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

Nil

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Governance is considered as the key activity that acts as a bridge between the management and stakeholders. IESCE has a strong governing board which is made up of different luminaries from various walks of life that devise all policies and decisions related to both academic and administration. To ensure the efficiency and effectiveness of the governing board, a number of academic and administrative bodies have been formed with duties and responsibilities. The governing board of the college meets once in a year, to discuss various issues and aspects contributing to the development of the college. During the meeting the suggestions from the planning and monitoring board are resolved. It chalks out a roadmap in order to achieve the goals of the institution. The Governing

Board of the college is committed to its vision and perspective, policy, financial planning and management, meeting frequently as it focuses on comprehensive development and on continuous improvement for the steady growth of the college. The Management strives hard to design and implement the quality policy and provides long term strategic guidance and direction for the college. The Management makes necessary provisions for providing funds to maintain and improve the quality of infrastructure, faculty, teaching learning process and research. The Governing Board periodically interacts with the Principal and discusses the quality plans and takes necessary steps to improve the quality policy and plans. The major decisions for the function of the institution and objective of the institution will be taken in the Governing Board meetings. In the decentralized governance system, the Principal is empowered to take decisions for all academic activities inside the Institution. The department heads are sanctioned to take decisions at the department level. The Institution believes in promoting a culture of decentralized governance system. Adequate and systematized autonomy to all the departments and sections is provided. Class committee gives its feedback for refining and redefining activities by keeping in view the deliberations of class committee feedback. Organization of several activities by students to enhance the capabilities of students under the advice of faculty members, hone their event management skills. HODs are empowered to distribute workload to faculty, identify the content beyond syllabus and to organize various faculty and student empowerment programs with the help of teaching and nonteaching faculty of the department.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Human Resource Management	This is achieved through: Well-defined recruitment policy based on merit of the applicant within the general frame-work. Providing a better teaching-learning environment in the institution. Providing on duty to the faculty for attending seminars, symposia, Workshops, invited lectures and research oriented activities. Conducting various programs related to health and hygiene, environment and literacy involving the local community including economically and socially backward classes. Providing on duty to the faculty for doing PhD research work.
Library, ICT and Physical Infrastructure / Instrumentation	Availability of textbooks, reference books and journals in the library is ensured for the effective course delivery. Also Digital library is available in the library to help the students to listen to the lectures delivered on the subjects .College has membership of National Digital library. The college subscribes to most of the major technical journals including

IEEE, ACE, ASME useful for researchers in various departments. Also NPTEL video classes are available for students. Besides the central library, there are department libraries with ample volume of books for easy access of reference books for faculties and research scholars. On special request from the research scholars, books required for research are made available. The institution strongly advocates and encourages the use of ICT tools to enrich the learning experience of the students inside and outside the classroom. ICT enabled classrooms are available here including seminar halls and auditorium for specialized needs.

We have introduced different methodologies during pandemic period in teaching learning processes like :
 Sending recorded video classes. You tube channels Voice recorded PPTs Moodle platform. Google Classroom.

Research and Development

The faculty are encouraged to attend FDPs, Workshops, Seminars and Conferences of different organizations. Faculties are involved in research and have published research articles in various national and international journals. The faculty are also motivated to pursue PhD in reputed universities. During the lockdown period different online fdps ,STTPs, workshops, webinars and certification courses were completed by faculty members.

Examination and Evaluation

The Examination Cell coordinates the conduct of Internal Examinations as well as University Examinations for all the UG and PG programs. In general, 2 sessional tests for UG classes and PG classes are conducted as per academic calendar. The college conducts the internal tests satisfying the requirements of the University .During the pandemic period both the internal and external exams were conducted in online mode. Each department has a question paper scrutiny committee which receives 2 question papers from respective faculty members .After the scrutiny one set is selected and handover to exam cell for the conduct of series examination.

Teaching and Learning

Course plan, Course materials and notes are prepared well in advance before the commencement of classes. E-

learning resources like NPTEL and other video lectures are played in classrooms. Group discussions, Tutorial classes, Individual student seminars are given to students to make them individually talented. Library references, journals, internet facilities are provided to improve their technical knowledge and to have an idea about new technologies. Guest lectures, workshops, seminars are arranged. Assignments are given and Class Tests, Quiz programmes are conducted to improve the academic performance of the students. Industrial visits, internship and in-house projects are arranged. Students are permitted to use the internet for their project works and seminars. Dedicated and experienced faculties are guiding the students. ICT is used apart from chalk and talk Teaching . Tutorial hours are conducted regularly to improve the problem solving skills of students. We have introduced different methodologies during pandemic period in teaching learning processes like :
Sending recorded video classes. You tube channels Voice recorded PPTs Moodle platform. Google Classroom. Academic planning by the Committee The subjects are allotted to the faculty before the semester begins based on their specialization and experience. The Faculty members are then asked to submit the lesson plan, notes and question bank to the HOD which will be monitored by the academic director and the Principal during the semester. The faculty shall maintain the class log books, records of daily lectures delivered and that of laboratory classes conducted. This is reviewed by the HOD weekly and checked by the Principal at random. The internal tests are conducted as per the academic calendar provided by the University and the results are analyzed within a week. Based on the results, the following remedial measures are taken: Guiding the students on the preparation and presentation in exams. Arranging tutorial classes. Conducting special coaching classes for slow learners. Conducting additional tests. Offering counsel to the students. Providing assorted references material. Students were encouraged to attend various free

online certification courses ,webinars ,online competitions e t c during the pandemic period.

Curriculum Development

Our institution is affiliated to APJ Abdul Kalam Technological University , Thiruvananthapuram it abides by the changes in curriculum as prescribed by the university. APJ Abdul Kalam Technological University curriculum pattern consists of subjects that need to be studied for different engineering branches. For 2019 they have revised their scheme and they have included advanced honor and minor subjects in bucket pattern. Students who excel in academics can choose the subjects from the bucket list. In this scheme they also included advanced elective subjects which are helpful for their higher studies .In some subjects for better understanding in practical means they have introduced micro projects instead of doing assignments. The first and second semester syllabus is common to all branches. From the third semester onward the courses are restricted to the stream or branch . Along with core branch papers, Economics, Life Skills, and other inter department papers are also included.

Admission of Students

For under graduate programs : The students are admitted through APJ Abdul Kalam Technological University, Single window system. For post graduate programs: The students are admitted based on their merit in graduate level examinations conducted by the APJ Abdul Kalam Technological University

Industry Interaction / Collaboration

The ultimate aim of the education is to equip the students to meet the industrial needs. In the present scenario the industry expects the students to fit in their requirements. In this process, the college accomplishes the following activities and facilitates the experts from industry to interact with the students. Guest Lecture is a way of enriching our students with the latest updates of the industries and technologies. Industrial visit is an important activity which gives an exposure to the company environment. Internships provide work experience opportunities to our students. During the lockdown period various industrial experts handled sessions on different advanced

technologies. Students had the opportunity to attend and complete many internship through online mode.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Student Admission and Support	The software module should process each information of a student during his campus life starting from his application, admission to issuance of degree completion certificates etc. This module allows the institution to perform the following and more : Get application details , Selection Process , Registration of students , Students Roll lists, Promotion/Transfer/Debar/Exit.
Examination	Faculties enter marks of sessional exam, assignments , class test e t c and take analysis reports of the same. Students and parents can also view marks and attendance in their login portal.
Administration	This module handles and maintains all details relating to human resource development and management of staff. This module allows the institution to perform the following and more : Staff application, appointment, ID Card, Manage Bio Data ,designation, category, scale, slab, allowance, deduction, leave masters.
Finance and Accounts	This module shall manage all financial activities of the institution and is also interlinked to Library, Hostel, Inventory, HR, Examination and Office Administration.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	nil	Nil	Nil	Nil
No file uploaded.				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for	Title of the administrative training programme organised for	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
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	teaching staff	non-teaching staff				
2019	Teaching Effectiveness Class Room Management by Dr. Mary Matilda (Rtd. Professor Maharajas College Ernakulam)	Nil	01/07/2019	01/07/2019	69	Nil
2019	Nil	Orukam -A program related to fire and safety	26/07/2019	26/07/2020	Nil	47
2020	Nil	Distribution of LED to Housekeeping staffs	22/01/2020	22/01/2020	Nil	15
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
FDP- Computer Algebra Systems in Applied Mathematics	3	30/12/2019	11/01/2020	12
Modern AICTE Curriculum based Engineering education -pedagogical issues and outcome based Learning	1	02/12/2019	06/12/2019	5
Training Programme on Multivariate Data Analysis	1	27/01/2020	01/02/2020	5
FDP on Statistics for Data Science	1	29/05/2020	30/05/2020	2
Training	1	27/01/2020	01/02/2020	5

Programme on Multivariate Data Analysis				
Applications of Advanced Mathematics in Engineering	2	05/12/2019	06/12/2019	2
Role of Teachers in Quality Enhancement and Accreditation	1	11/05/2020	18/05/2020	8
Artificial Intelligence	1	22/05/2020	26/05/2020	5
Keralas water woes - Challenges and Mitigations (Seminar)	1	19/09/2019	20/09/2019	2
Challenges of Kolkata Metro Construction (Technical Lecture)	1	27/07/2019	27/07/2019	1
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
69	69	47	47

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Casual Leave,, Maternity Leave, Gratuity (completion of 5 years service)	Casual Leave,, Maternity Leave, Gratuity (completion of 5 years service),ESI Benefit	0

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

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 Experienced and efficient personal conduct final audit. Internal Audit Copy of Budget proposals, invoice and vouchers, and supporting documents of every purchase /event is maintained in the respective Departments and the original documents are sent to the accounts Department of the Institution. The accountant of the institution verifies every document, observations if any, is brought to the notice of HODs for immediate rectification. The details of all the expenditures / transactions of the entire financial year is consolidated and maintained at the accounts office and submitted for external audit at the end of the financial year. Appointed Chartered Accountant's team members visit the institution quarterly and

verifies all the bill, vouchers, books of account, bank statements along with other documents, if found any discrepancies they will inform the accounts department in writing with a copy to the parent body for further action/rectification. External audit of the institution is conducted once in a year post March 31st, by the chartered accountants. The External Auditor expresses their opinion on the financial Statements of the Institution based on their Audit. They conduct the Audit in accordance with Standards on Auditing issued by the Institute of Chartered Accountants of India. The Audit involves performing procedures to obtain audit evidences about the amounts and disclosure in financial Statements. They perform the audit to obtain reasonable assurance about the financial statements, free from Material Misstatements. The Auditors also evaluate the appropriateness of accounting policies used and reasonableness of the accounting estimates made by the management as well as evaluating the overall presentation of financial statement. Audited financial statements are also published in the institute website as information for the public.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NIL	0	NA
No file uploaded.		

6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	KTU	Yes	KTU and NAAC internal auditors
Administrative	Yes	KTU	Yes	KTU and NAAC internal auditors

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

The management arranges for PTMA (Parent teacher Management Association) meeting once in a semester. The parents are identified and invited by PTMA coordinators. Student's academic performance, university results, attendance, internships placement and other Co-curricular and Extra-curricular activities are discussed. Each department HoD arranges for PTA meeting twice in a semester to discuss about overall performance of students and about university results, attendance, internships placement and other Co-curricular and Extra-curricular activities

6.5.3 – Development programmes for support staff (at least three)

1.A program ORUKKAM related to fire safety conducted on 26/7/2019..21..Distribution of LED to housekeeping staff.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1.NBA accreditation Process 2.Product Development 3.Increase the number of UGC

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
c) ISO certification	No
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Journal publication of UG and PG students	01/06/2019	01/06/2019	31/05/2020	28
2019	Implementation of new modules of ERP system	01/06/2019	01/06/2019	31/05/2020	69
2019	Updation of NAAC Files	01/06/2019	01/06/2019	31/05/2020	69
2020	Participation of Kerala Hackathon	01/06/2019	06/02/2020	06/02/2020	8
Nil	Preparation of NBA Accreditation Process	01/06/2019	01/06/2019	31/05/2020	69
Nil	Online Classes and exams	01/06/2019	01/06/2019	31/05/2020	836

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**7.1 – Institutional Values and Social Responsibilities**

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Debate on Beti bachao, Beti padao	24/01/2020	24/01/2020	25	15

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

The Institution, nestled in close proximity to Thrissur city, 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 institution is committed to its responsibilities to the environment and consciously monitors the up keep and maintenance of the campus. The campus has been made as green as possible by planting good number of trees and other plants, with an exclusive team for gardeners and NSS volunteers. The students and staff members are aware of the importance of energy conservation. The students have been made self-responsible by switching off the lights and fans whenever not in use. Energy conservation banners have been put up in the college and hostel. The UPS Batteries are being maintained in good condition thus reducing charging current of batteries. CFL bulbs are used wherever possible. Electrical equipments are periodically checked and monitored to ensure energy conservation. The lawns and saplings in the garden are watered by the recycled waste water which is treated properly in the plant. All the buildings in the campus are provided with rain water harvesting facility, in order to increase the water table, as a part of conservation and preservation of natural resources. Biogas, produced through the processing of various types of organic waste is used for cooking in the canteen. To avoid pollution, the campus has battery powered vehicle for travelling inside campus. As a part of the efforts for Carbon neutrality, the College provides bus facilities to the faculty members and non-teaching staff with an aim to avoid the use of individual vehicles and thus reducing carbon emission. Initiatives are taken to sensitize students and staff members in utilizing the common transport system in order to reduce the carbon emission. The institute actively promotes the idea of vehicle pooling to both staff and students. The campus is filled with greenery, in and around, with conscious efforts of the institution. No hazardous waste is produced within the campus. Computers, UPS and Printers are sent to approved scrap dealers for safe disposal. The well ventilated buildings where natural lighting is present throughout the day and the cool breeze from the canopy of trees, reduces the usage of electrical appliances. .

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	Nil	Nil	Nil	Nil	NIL	NIL	Nil
No file uploaded.							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Vision and Mission	01/08/2019	The vision statement of IESCE is a forward-looking statement that presents a visual image of the ideal state that the institution aspires to. It is motivating and

		<p>aspirational, and each and every person of the Institution is motivated by it. The mission statement is a succinct explanation of the rationale for the existence of IESCE as it expresses our ultimate goal and purpose. All stakeholders receive purpose and direction from the mission statement, which supports the vision.</p>
Life Skills	01/08/2019	<p>Life skills education, introduced by KTU empowers the students to acquire the ability to live life effectively and to organise life activities in a systematic manner. It is a style of education which sharpens the ability to adapt to a variety of situations and prosper in all aspects of society. Lack of life skills in the lives of new generations must be addressed because they are crucial in life. Not just personal lives, but also professional and career lives and jobs are damaged by a lack of life skills.</p>
IESCE -Rules Regulations	01/08/2019	<p>The College Regulations helps the students to be safe and educate them what behaviours are and are not acceptable in the Institution. Rules are established to teach students how to act in an appropriate and safe manner in the institution, hence boosting student learning. I. Everything will be in disarray if the pupils do not have any rules to follow. This could lead to students inflicting physical and mental harm on one another. Furthermore,</p>

		<p>students will not be taught how to behave correctly in society as they get older. Another significant consideration is that the students disruptive behaviour will obstruct the learning chances of other students.</p>
IESCE Service Manual	01/08/2019	<p>The Service Manual helps to demonstrate, both internally and externally, that it satisfies diversity, ethical, and training standards, as well as its obligations in terms of employee regulation and corporate governance. The typical strategy to meeting these requirements is to create an environment that outlines obligations, standards of behaviour, and disciplinary procedures. It establish frameworks within which consistent decisions are made and promotes equity in the treatment of persons. It also helps to foster and strengthen the intended Institutional culture.</p>
Ethics Committee	01/08/2019	<p>IES College of Engineering, Chitilappilly, Thrissur, is committed to maintain good moral profile to gain credibility in the eyes of the stakeholders and build a good institutional image. Ethical conduct is to be practiced in all facets of the institutional operations and activities, policy decision making, implementation, and follow up. Our college is responsible to cultivate higher values of honesty, integrity, responsibility, mutual</p>

respect for persons and property and respect for human rights. Ethical behaviour and conduct are to be followed by all the participants in the teaching - learning- evaluation process. Ethical dimensions of an Educational Institution cannot be ignored and it has a significant impact on society at large. In order to achieve this, appropriate guidelines are framed to enforce ethical values in the personal conduct which will be binding on all the students and staff in the college. Ethics Committee is constituted to formulate Ethics Policy for IESCE. Our ethics policy warrants ability to identify right from wrong, good from evil, and the commitment to do what is right, good and proper for each individual within the College.

College Website

01/08/2019

www.iesce.info. our college website is , a well-thought-out digital platform that is critical to the institutions reachout to the younger generations and their parents. Other stakeholders like recruiting corporates and our training partners can also engage with the Management,Principal, Faculty members and students. It allows the college to give an insight into the various activities, the offered courses , infrastructure , other facilities and snippets of the vibrant campus life.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
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PMAY	07/09/2019	10/09/2019	37
Punarjani Work in Mullassery Block Health Center	07/09/2019	10/09/2019	23
BAMBOO PLANTATION	18/09/2019	18/09/2019	21
FLOOD RELIEF COLLECTION Distribution-Thrissur	17/07/2019	17/07/2019	37
Campus cleaning	02/08/2019	02/08/2019	24
FLOOD RELIEF COLLECTION Distribution-Attappadi	16/08/2019	16/08/2019	40
post flood cleaning-Sanitation and Drainage	19/08/2019	19/08/2019	36
Community program - Cleaning of neighbourhood roads	03/08/2019	03/08/2019	37
Anti Ragging Awareness Programme	29/08/2019	29/08/2019	140
VILANGAN HILL CLEANING	01/09/2019	01/09/2019	35

[View File](#)

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

The college has established facilities for Rain water Harvesting The College has started the concept of a vegetable garden Wide varieties of Bamboo are planted in the campus as part of the greening the campus Clean campus programs have been initiated. Water for birds kept in various places in the campus . SWACHH BHARAT- program has been implemented through various programmes such Thrissur railway station cleaning, Peramangalam police station cleaning Vilangan hill cleaning and other community programs

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Practice I: 1. Title of the Practice: "Agro Tools" - Farmers Friend 2. Objective of the practice Agricultural tools such as sickle, plough, hoe, drills, etc. are implemented in agricultural activities to make the process more productive and efficient. There are a large number of agricultural tools used by the farmers for cultivation. Our main objective is to produce cost effective and user friendly agricultural tools to help farmers. 3. Context ? In Kerala most of the people are having small cultivatin land around there surrounding. ? Such people are in search of small agro tools for cultivating small area of land. ? Surveys were taken from Agro Consortium and discussion was made regarding the concept. 4.The practice The following Agro tools were made from waste materials to help small cultivators. BEEHIVE STAND ? The Beehive stand also helps to support beehive away from damp ground that causes damp rot and shortens the life of the wood. HAND ESCAVATOR ? This hand tool is used to remove soil and making medium level pits with less effort. It also uses to relocate the plants. FRUIT PICKING TOOL? Fruit pickers are the best tools

that you can use to harvest fruits because they maintain the quality of fresh fruits. Mango, Orange, Tamarind, Guava etc. Also uses to honey harvest. WHEEL HOE ? For weeding and intercultural operations in vegetables and other crops sown in rows. It is used in pushing and pulling mode for removing weeds. WHEEL TILLER ? A Wheel tiller is a manually operated tool that helps to break up the ground for planting and aerate the soil, loosens and mixes the dirt. It is the easiest and most dependable method and it reduces time and efforts. HAND TILLING TOOL ? This is a mechanical tool for household purpose. This product is dedicated to common man who wants to make his surrounding area a productive micro farm by making tilling an inexpensive and easy task. PLANT TRANSPLANT TOOL ? This is a tool meant to transplant plant from one location to other. We might come across sapling generation, budding and such developments in initial stages of a plant nurturing. This may require replanting or relocating in the next stage. This is an effective toolkit for old age or young farmers to reduce their efforts in farming or planting. HAND PLOUGHING TOOL ? Bringing a tractor or large equipment's for ploughing might not be a practical solution when you are planning to prepare a small area near your house for farming. This hand ploughing tool is a solution to this problem. Land preparation can be made easy using this special tool. ROTATING DISINTERING TOOL ? This tool helps to unearth and create holes. It also reduces the effort by eliminating the need of removing soil from the dug area. Soil automatically comes out while rotating and helps reduce time and effort to dig. TWISING HAND TILLER ? This tool is used to loosen soil, remove weeds, roots and similar twigs with ease. A single tool can replace hoe, pickaxe and reduce operation time.

5. Evidence of Success ? Research and Development Cell, Department of Mechanical Engineering, IES college of Engineering conducted an inauguration of the "Launching of Agro Tools" on 22nd of March 2021 ? Function was inaugurated by Adv. V S Sunilkumar, Honorable minister of Agriculture, Kerala State ? Tied up with Agro Consortium for further development of products ? Bee-hive stand (100 nos) were made in the department and hand over to Vydhya Amrutham Herbo Minerals , Nilambur, Malapuram District

6. Challenges To develop the product

1. Training of manpower
2. Time management
3. Increased Physical efforts

Practice II: 1. Title of the Practice: "IES E -Cycle" - An initiative to attain Sustainable Development Goals. 2. Objective of the practice: The important objective of IES E -Cycle is eco friendly. This initiative mainly brings up pollution control and zero emission. Conversion of old cycles to electric cycles at very low cost .Long lasting batteries

4. The Practice A solar bicycle is a bicycle which runs using the electrical energy of battery to run the hub motor which ultimately runs the bicycle. Solar energy is used to charge the battery. Two or more Photovoltaic cells may be used to harness solar energy to generate voltage to charge the battery. Battery gives the required voltage to the hub motor mounted on the rear wheel to run the bicycle. Solar bicycle are not sold generally in our everyday life but there manufacturing can be increased to prevent environmental pollution. These are primarily used as practical projects and are also sometimes sponsored by government agencies. There have been many patents on electrical vehicles in different countries and thus electric vehicles are not a very new concept. Utilizing solar energy to charge the battery and combining this concept with the concept of electricity generation pedaling is a new concept and there have been very less research in this regard.

3. Context: 1. Developing an alternate mode of transport, which has an advantage of low running and long range. 2. Developing environmentally sustainable zero emission vehicle. 3. Effective utilization of solar power. 4. Reaching grass root level population of India to make a common man's daily commutation affordable

There are two types of solar panels that are generally used that is, polycrystalline panels and microcrystalline solar panels. The polycrystalline panels are having less efficiency as compared to microcrystalline panels. Polycrystalline panels have efficiency of approximately 15 - 20 while microcrystalline panels have efficiency of 50 -60. There are different types of batteries used in electric

vehicles like lead acid batteries, lithium ion batteries, Nickel cadmium batteries, etc. Different batteries they have their different advantages for different applications. As far as solar bicycles are concerned lead acid and lithium ion batteries are most commonly used. Lead acid batteries have lower cost, higher current carrying capacity but have smaller life and are heavier. While lithium ion batteries have lower weight, but have higher cost and there are chances of explosion Slowly solar bicycle have gathered attention from all over the world and there have been many projects being done on this topic. The motor used is a permanent magnet Hub motor which will be mounted on the rear wheel. Bicycles and motorcycles are the two important form of two-wheeler transport in India. Bicycle has an advantage of very low running cost but has a drawback that, its range is mainly dependent on the physical fitness of the rider. On the other hand motorcycle has a very high range as compared to the bicycle but its running cost is very high. With increasing oil price the running cost of motorcycles will go up further in coming years. So the present need is to develop an alternate means of transport which has the advantages of both bicycle and motorcycle. Due to the increasing oil price this alternate means of transport should be powered by sources of energy like solar, wind etc that are freely available in nature and also free from pollution. Motorized bicycle powered by solar energy is an answer to all the above present needs. To develop the product 1. Training of manpower 2. Time management 3. Initial funding 5. Evidence of Success o In human transportation as a personalized vehicle. o For inter departmental transportation in huge campuses. o In industries for different level personnel to move around to inspect the work progress. o Can be used in hospitals, Airports, Shopping malls, IT campuses, Hotels resorts, Power stations, manufacturing units, etc. o As it is a bicycle therefore it also works manually using pedals hence helps in exercise 6. Challenges

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://iesce.info/uploads/userfiles/Best%20practice%2019-20%2023-Mar-2022%2015-58-27.pdf>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

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.

Provide the weblink of the institution

<http://iesce.info/>

8.Future Plans of Actions for 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. Planned to submit SAR for NBA

accreditation at the earliest.