Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**KCG COLLEGE OF TECHNOLOGY**
Name of the head of the Institution	**G.Prabhakaran**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**044-28389001**
Mobile no.	**9600075082**
Registered Email	**principal@kcgcollege.com**
Alternate Email	**diradmin@kcgcollege.com**
Address	**KCG College of Technology, KCG Nagar, Old Mahabalipuram Road, Karapakkam, Chennai 600097**
City/Town	**Chennai**
State/UT	**Tamil Nadu**
Pincode	**600097**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr.Z.Edward Kennedy**
Phone no/Alternate Phone no.	**04428389003**
Mobile no.	**8939933031**
Registered Email	**iqac@kcgcollege.com**
Alternate Email	**zedwardk.mech@kcgcollege.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://kcgcollege.ac.in/iqac/

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://kcgcollege.ac.in/pdf/Academic-Calendar-2019-20.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A+**	**3.34**	**2019**	**14-Jun-2019**	**13-Jun-2024**

6. Date of Establishment of IQAC

08-Feb-2017

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
Academic Audit	**15-Oct-2019** **25**	**170**

Preparatory Coaching for GATE & Other competitive Examination	10-Aug-2019 16	87
Class Room observations on Teaching Learning	01-Sep-2019 30	96
Laboratory Audit	21-Oct-2019 5	40
Quality improvement methods on Teaching Learning(IIT-TLC)	04-Nov-2019 3	82
Teachers adaptation for effective Learning	25-Nov-2019 3	19

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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
KCG College of Technology / Mechanical Engineering/ PI: Dr.G. Prabhakaran, Dr. Albert P Rayan	Funded Project	AICTE	2019 1095	633000
KCG College of Technology / Information Technology/PI: Dr. J. Frank Vijay Ms. K. Anju	Funded Project	AICTE	2019 1095	1930000
KCG College of Technology / Electronics and Communication Engineering/PI: Dr. V. ThulasiBai Dr. Deepa Jose	Funded Project	AICTE	2019 1095	1188000
KCG College of Technology / Electrical and Electronics Engineering/Dr.P.D eivaSundari Mr.S.Balaji	Funded Project	CVRDE	2019 1095	2235000

KCG College of Technology / All departments	Funded Project	TNSCST	2019 180	45000
KCG College of Technology / Electrical and Electronics Engineering/PI: Dr. P. Deivasundari	TGS- Travel Grant Scheme	AICTE	2019 365	140000
KCG College of Technology / Mechanical Engineering/PI: Dr. G. Prabhakaran Dr. S. Ramesh	GOC Grant for Organizing	AICTE	2019 365	672000
KCG College of Technology / Civil Engineering/PI- Dr. V. Vandhan Devi Dr. P. S. Aravind Raj	INAE Distinguished Visiting Professorship Scheme	AICTE	2019 365	20000
KCG College of Technology / Civil Engineering/PI- Dr. V. Vandhan Devi Dr. P. S. Aravind Raj	National Seminar	DST- SERB	2018 365	75000
KCG College of Technology / Electronics and Communication Engineering/Dr. Deepa Jose Ms. V. Priyanka	National Workshop	ISRO	2018 365	50000
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	[View Link]()
10. Number of IQAC meetings held during the year :	**15**
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 Uploaded 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)

- **Initiated student support mechanisms for Higher education and Competitive exams**
- **Around 60 faculty members were made familiar with Learning Managements System (LMS) through in house and external training (IIT) • The Lab audits were carried out to ensure that laboratory facility is fully utilized and laboratory classes were conducted as per the curriculum • Faculty members were encouraged to publish more papers in indexed journals and the number of publication has increased proportionately • Expert members visited the classes to help the teachers in improving Course delivery/ ICT utilizations/ Video Lecturing etc**

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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
Class Room observations on Teaching Learning	**Class Room Observation during the Teaching Hours/Feedback and suggestions provided had improved the quality of Teaching**
Central Valuation for the Internal Examinations	**Internal Exam Papers are Evaluated Centrally/Timely updation of Marks**
Preparatory Coaching for competitive Examination	**Special Coaching Classes for GATE conducted/More students enrolled to write the GATE Exams**
Quality Improvement in Teaching Learning Process	**Quality Improvement Training on Teaching Learning was Provided/Improved the Quality in Teaching Learning Process**
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Governing Council Meeting	**30-Nov-2019**

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

Date of Visit	23-May-2019
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	25-Feb-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	The institution has an ERP system which was designed keeping in mind the different operations of a college. It reduces the manual work and make ease of academic and non academic activities. It generates reports for all the modules. The data also stays secure. The college admission is managed fully by the ERP which can create the admitted student record, allotment of roll number, updating student dues and fines. It also updates the scholarship and fee concession activity. It automates the college attendance management system by managing academic calendar, course allotment, time table entry, creation of practical batches and day to day attendance entry by the faculty. It generates Attendance reports for faculty, students and parents, Analysis of faculty teaching, poor attendance report, Communication through SMS, letters and email to parents. It also manages the examination by marks and grade entry and generating result analysis reports. The finance department also got the management information system which keep in track of all the fees paid, dues left. Apart from this, library also automated with all searching possibilities and record of all book in the information system.

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

The Institution ensures effective curriculum delivery through a well-planned

and documented process • Vision, Mission, PEO, PO, PSO and Course Outcomes (CO) are well-defined and OBE is followed • Every department has a Department Advisory Board (DAB) with various stakeholders which meets every year to review and give suggestions for the next academic year • Various changes / suggestions about the curriculum are given to the University through the DAB minutes and also through the faculty members in syllabus subcommittee. • Programme Assessment Committee (PAC) comprising of senior faculty members monitors the academic activities • The institution academic schedule for each semester is prepared well in advance to meet the Anna University (AU) academic schedule strictly • Before the commencement of the semester, the course allotment is done based on faculty competency and the faculty prepares the Course Delivery Plan (CDP), lecture notes, question bank and manuals • Time table will be prepared including value added courses, training, library and project hours • Various active learning methods like project based learning, Blended learning adopted by the faculty to engage the students effectively • A good learning environment is given to the students by providing smart class rooms , Videoconferencing facilities, and NPTEL facilities to improve the effectiveness of curriculum delivery • Practical courses are given more emphasis with additional experiments beyond the syllabus • Tutorial classes are conducted for the analytical courses for enhancing their problem solving skills • Apart from Library books, Text books for all courses are issued to the students from Hindustan Book Bank every semester. • Feedback about courses are collected in order to monitor the progress in formal and informal way. Class committee meetings and online course feedback are conducted twice in a semester. Principal, Dean-Student affairs and HODs also collect feedback from students. • IQAC collects feedback from their student's representative and prompt action will be taken. • Centralised internal assessment tests are conducted by setting two sets of question papers with evaluation scheme. • Centralised Evaluation of papers by exchanging among the faculty taking the same course. • The evaluated answer sheets are given to the students and the marks are also communicated to the parents • Slow learners are identified and given more attention by conducting remedial classes • Students with good academic performance and outstanding co-curricular activities are motivated by several means especially through Innovation and Entrepreneurship Development Cell (IEDC) • Students are encouraged to publish their project work in Conferences / Journals to stimulate the research in the young minds • Mentoring or Counseling is done to support students to improve their performance • Industrial collaborations are encouraged through MOU's in order to expose students to the current industrial needs. Various activities are being arranged through the MOU's on regular basis • Various Centre of Excellences (CoE) and research labs pave the way to inter-disciplinary projects • Regular upgradation of faculty skills is done by sending them to industrial trainings and FDPs in reputed institutes

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Drone pilot training	NA	01/07/2018	7	Yes	Yes
Digital Manufacturing (3D)	NA	01/07/2019	5	Yes	Yes
Non Destructive Testing	NA	01/07/2019	3	Yes	Yes

Planning Designing of a Commercial Building using Auto CAD	NA	01/07/2019	5	Yes	Yes
CFD workshop	NA	01/07/2019	3	Yes	Yes
Advanced Composite Workshop	NA	01/07/2019	5	Yes	Yes
Structural Design and Analysis using Staad Pro	NA	01/07/2019	3	Yes	Yes
Building Information Modelling using Rivet Architecture	NA	01/07/2019	5	Yes	Yes
Oracle JAVA Fundamentals Virtusa Placement Drive Training	NA	01/07/2019	15	Yes	Yes
CCNA	NA	01/07/2019	20	Yes	Yes
Big Data/ Virtusa Placement Training	NA	01/07/2019	12	Yes	Yes
Cyber Security	NA	01/07/2019	10	Yes	Yes
Roof Top Solar Grid Engineer Programme	NA	01/07/2019	5	Yes	Yes
Siemens - Basic AC- DC drives	NA	01/07/2019	5	Yes	Yes
Power System Protection Relay Testing	NA	01/07/2019	5	Yes	Yes
Raspberry Pi-- EFY	NA	01/07/2019	5	Yes	Yes
BSNL – Broadband Communication	NA	01/07/2019	5	Yes	Yes

MAT Lab Workshop					
Embedded System Design - NIELIT	NA	16/12/2019	10	Yes	Yes
Advanced Robotics Training	NA	16/12/2019	3	Yes	Yes
AI Workshop using Python	NA	16/12/2019	2	Yes	Yes
Raspberry PI/ Arduino	NA	16/12/2019	5	Yes	Yes
MATLAB advanced	NA	16/12/2019	5	Yes	Yes
PIC, ARM Microcontroller	NA	16/12/2019	4	Yes	Yes
LabVIEW- Core I, MATLAB Basics	NA	16/12/2019	5	Yes	Yes
PLC, SCADA	NA	16/12/2019	5	Yes	Yes
Software Testing Fundamentals	NA	16/12/2019	7	Yes	Yes
Cyber Security Tools	NA	16/12/2019	7	Yes	Yes
Oracle Certified Java Fundamentals	NA	16/12/2019	5	Yes	Yes
Infosys Campus Connect	NA	16/12/2019	14	Yes	Yes
Dell EMC2-Data Science and BigData Analytics	NA	16/12/2019	12	Yes	Yes
3D Printer Hands On Training	NA	16/12/2019	3	Yes	Yes
Eaagle View- Advanced Metrology Training	NA	16/12/2019	5	Yes	Yes
Heating,Ve	NA	16/12/2019	2	Yes	Yes

ntilation and Air Contioning (HVAC)					
Non Destructive Testing	NA	16/12/2019	5	Yes	Yes
MSME Centre of Excellence in Factory Automation Robotics	NA	16/12/2019	12	Yes	Yes

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Automobile Engineering	02/07/2018
BTech	Fashion Technology	02/07/2018
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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
BE	Aeronautical Engineering	01/07/2018
BE	Automobile Engineering	01/07/2018
BE	Civil Engineering	01/07/2018
BE	Computer Science and Engineering	01/07/2018
BE	Electrical and Electronics	01/07/2018
BE	Electronics and Communication	01/07/2018
BE	Electronics and Instrumentation Engineering	01/07/2018
BE	Mechanical Engineering	01/07/2018
BTech	Information Technology	01/07/2018
BTech	Fashion Technology	01/07/2018
ME	Communication Systems	01/07/2018
ME	Computer Science and Engineering	01/07/2018
ME	Engineering Design	01/07/2018
ME	Power Electronics and Design	01/07/2018
ME	VLSI design	01/07/2018

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year		
	Certificate	Diploma Course
Number of Students	2412	0

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
Foundation Program in and Data Science Machine Learning	02/07/2018	33
Full Stack Development: Java Web Development	02/07/2018	27
Full Stack Development: HTML Core Java Programming	02/07/2018	27
CCNA Level - I	02/07/2018	90
Cyber Security Essentials	02/07/2018	23
Design Thinking	02/07/2018	31
Train the Trainer (LEX/InfytQ Campus Connect)	02/07/2018	5
Cloud Literary Programme	02/07/2018	100
Sales-force Trail-head Students championship	02/07/2018	150
NASSCOM Assessment of Competence – Technology (NAC-Tech)	02/07/2018	103
[View Uploaded File](#)		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Aeronautical Engineering	144
BE	Automobile Engineering	12
BE	Civil Engineering	65
BE	Computer Science and Engineering	198
BE	Electrical and Electronics Engineering	135
BE	Electronics and Communication Engineering	178
BE	Electronics and Instrumentation Engineering	33

BTech	Information Technology	52
BE	Mechanical Engineering	184
BTech	Fashion Technology	5
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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
Internal feedback systems are important for the growth of every entity and as Higher Education Institutions are gradually defining new routes for greater accountability and teaching effectiveness, feedback systems provide some answers to improvement in educational outcomes. The design of a performance feedback system for Higher Education Institutions would ensure that information regarding the performance of the various key stakeholders in the institution have adequate information to help them improve upon performance. Institution improvement is the main objective for the design of this feedback system but on the other hand the issue of accountability and the promotion of Institution choice by parents, students and other cooperate bodies who wish to enroll their staff is very important. The content of the information on the school's performance would be identified as broad. Thus, Institution performance under this context would be a contextualized measure for fair comparison, adjusted to take account of the factors beyond the control of the school which is also termed as 'value added'. Another factor that would be considered would be the issue of performance under the system which would include absolute performance measures and may equally relate to non-academic outcomes such as behavioural and affective. The information that would be provided on the functioning of Higher Education Institutions would relate to organizational process measures such as resource spent, subject matter taught, the instructional method used, the structure of the organizational structure of the institution and the nature of leadership.

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
BTech	Fashion Technology	60	16	4
BTech	Information Technology	60	81	47
BE	Mechanical Engineering	120	63	68

BE	Electronics and Instrumentation Engineering	60	11	5
BE	Electrical and Electronics Engineering	120	41	24
BE	Electronics and Communication Engineering	120	133	70
BE	Computer Science and Engineering	120	160	109
BE	Civil Engineering	60	25	11
BE	Automobile Engineering	60	27	16
BE	Aeronautical Engineering	60	95	47

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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
2018	1974	16	160	0	24

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	Numberof smart classrooms	E-resources and techniques used
184	184	15	47	8	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)

Yes, Each faculty will be the mentor of a group of 10 to 12 students. First year students will have mentors from the department of Basic Engineering Science and second, third, fourth year students will have mentors from the parent department. Departmental faculties will continue to be mentors for the same group of students till their graduation. The group including combination of second, third and fourth year students except first year students. Responsibilities: The mentor will perform the following functions. 1. Meet the group of students at least twice in a month. 2. Continuously monitor, counsel, guide and motivate the students in all academic matters. 3. Advise students regarding choice of electives, project, summer training etc. 4. Contact parents/guardians if situation demands e.g. academic irregularities, negative behavioral changes and interpersonal relations, detrimental

activities etc. 5. Advise students in their career development/professional guidance. 6. Keep contact with the students even after their graduation. 7. Intimate HOD and suggest if any administrative action is called for. 8. Maintain a detail progressive record of the student (format attached). 9. Maintain a brief but clear record of all discussions with students..

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1990	184	1:11

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
180	184	0	34	53

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 state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Kavitha Balamurugan	Associate Professor	AICTE CII Best Industry Linked Award
2019	Deivasundari P	Professor	Best Higher Education Institute for Skill Development
2019	Dr Chinnaraj	Professor	Best Educational Institute in Engineering
2019	Dr G Prabhakaran	Principal	Institution of the Year
2019	Dr P Deivasundari	Professor	Best Practices Industry readiness
2019	Dr P Deivasundari	Professor	Sustainable Industry Institute Partnership Department Award
2019	Dr Praveen Joe IR	Associate Professor	Excellence in Leadership
2019	Dr M Krishnamoorthy	Professor	AICTE CII Best
2019	Dr V Thulasi Bai	Professor	AICTE CII Best Industry Linked Award Platinum CategoryAICTE CII Best Industry Linked Award Platinum Category
2019	Dr P Anuradha	Professor	AICTE CII Best Industry Linked

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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
BE	101	I/ I	21/12/2018	22/01/2019
BE	101	III/ II	20/11/2018	22/01/2019
BE	101	V/ III	21/11/2018	22/01/2019
BE	101	VII/ IV	26/11/2018	22/01/2019
BE	102	I/ I	21/12/2018	22/01/2019
BE	103	I/ I	21/12/2018	22/01/2019
BE	103	III/ II	20/11/2018	22/01/2019
BE	103	V/ III	21/11/2018	22/01/2019
BE	103	VII/ IV	04/12/2018	22/01/2019
BE	104	I/ I	21/12/2018	22/01/2019

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The institution is affiliated to Anna University, Chennai and the process of evaluation is followed as per the University guidelines. The quality of engineering education is the direct outcome of knowledge implanted and evaluated through formal examination. The education process in any discipline of learning ends with examinations. The entire effort put in by the teachers on teaching and the student on learning is centered on getting good level of success rate in the examinations. The objectives of the internal assessment tests are to • Expose the students to continuous evaluation and also focus on practice through learning methodologies. • Emphasize on students to perform consistently and not study in a sporadic manner. ? Process of Internal Tests Question Papers Setting • The Exam Cell will coordinate all the activities related to the conduct of Internal Assessment Tests. • The Department has Test Coordinator to facilitate the examination process in a smooth and efficient manner. • Question Papers for internal assessments are prepared by keeping Bloom's Taxonomy Levels as reference. • Two sets of question papers along with answer keys are collected for each course. The question papers are checked for the CO coverage and knowledge level by the Program Assessment Committee (PAC) and approved by the HoD. • The Exam Cell collects the two sets of Question Papers for every course and selects one question paper randomly. • Unit test 3 covering two marks of all the units is conducted atthe end of the semester to test the students' conceptual knowledge and make them confident. Criteria for Evaluation • All the answer scripts are evaluated and checked by PAC. Evaluation of internal assessment is rated based on the Bloom's Taxonomy Level and the CO, PO and PSO to which it corresponds. Depending upon that, the CO attainment and corresponding attainment of PO and PSO for the respective course are analyzed and appropriate actions are suggested and implemented. • The corrected answer scripts are distributed to students by the faculty as per the schedule and the solutions for questions are discussed with the students inside

the classroom. • Marks are entered in the college database for future reference and also in counseling records to analyze their performance regularly. • Result analysis is done for all the classes in the department and necessary action will be taken to improve the pass percentage like conducting retest for failed students, providing regular counseling. • Internal Marks are calculated by the University for each student based on their performance in the internal assessment. • The university exam question paper will be discussed with the students and feedback will be conveyed to the University based on the needs. ? Assignments Assignment is a type of reflective learning activity in which the students' level of understanding about the course is conveyed to the faculty.The assignments are focused on developing the writing, interpersonal and collaborative skills of the students. Hence, the continuous assessment of the students through assignments will enhance their higher level thinking.

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

Academic year starts on the date as prescribed by Anna University. The university publishes in advance, the academic calendar containing plans for curricular and co-curricular activities based on the available working/teaching days as per university norms. The institution academic calendar for each semester is designed to meet the university academic schedule. Allotment of Courses and Preparation of Time Table • Before the commencement of the semester, the time-table coordinator circulates the course option form which has details of faculty competency to each faculty member. Based on that, the HoD will allot appropriate courses to all the faculty. • Based on the course allocation, the time table coordinator will frame the time table. • For the interdisciplinary courses, the respective departments will be requested through proper channel to handle the respective courses. • In addition, value added courses are also conducted to enhance the knowledge, bridge the gap in the curriculum and to meet the industry expectations. • Slow learners are closely monitored and in addition to the regular classes, week end classes are being handled to cater to their needs. • Bright students are motivated to score high grades and to secure university ranks. The Head of the Department circulates the template of the course delivery plan upon instruction from the Principal. Based on the academic schedule given by the University, the CDP is prepared by the course handlers and approved by the course coordinator. All the CDPs will be then submitted to the HoD for approval. Every course has five units as prescribed by the Anna University curriculum. During the semester, after every planned unit completion, a 'Lesson Plan Follow Up' format is circulated to all the faculty and will be asked to fill the status of completion of the Unit. The HoD reviews the lesson plan follow up format. If any discrepancy is found in completion, the HoD will discuss the matter with the individual faculty. The lesson plan follow up format is then submitted for Principal's review. There is an academic counsellor appointed by the Principal/HOD for each year of the program who monitors the day- to- day conduct of the lectures based on the time table.

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)

https://kcgcollege.ac.in/departments/mechanical-new/#3

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year	Number of students passed in final year examination	Pass Percentage

			examination		
410	ME	Manufacturing Engineering	2	2	100
403	ME	Communication Engineering	4	4	100
205	BTech	Information Technology	56	44	78.57
114	BE	Mechanical Engineering	121	104	85.95
107	BE	Electronics and instrumentation Engineering	69	50	72.46
106	BE	Electronics and communication Engineering	104	88	84.6
105	BE	Electrical and Electronics Engineering	102	90	88.23
104	BE	Computer Science and Engineering	103	94	91.26
103	BE	Civil Engineering	89	49	55.1
101	BE	Aeronautical Engineering	103	94	91.26
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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)

https://drive.google.com/file/d/16VkkHOb4rnZxVufQOqGlGmvacPt1dQ8x/view?usp=sharing

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
Major Projects	180	ISRO-DOS	0.5	0.5
Major	180	DST-SERB	0.75	0.75

Projects				
Major Projects	180	DHR – ICMR	1	1
Major Projects	90	KCG College of Technology	2	2
Major Projects	180	IITM - PALS	0.5	0.5
Major Projects	730	DST- NRDMS	33.1	33.1
Major Projects	90	Cadd Technologies	1.1	1.1
Major Projects	180	GE TD Ltd. Chennai	2.36	2.36
Major Projects	180	KCG College of Technology	0.75	0.75
Major Projects	180	KCG College of Technology	0.43	0.43
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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
Workshop on DESIGN THINKING "i -START" BY FORGE	All departments	10/09/2019
A workshop on ?INTELLECTUAL PROPERTY RIGHTS	All departments	10/01/2019
Workshop on "Where do ideas come from?	All departments	26/09/2019
Entrepreneurship motivational talk	All departments	28/09/2019
Institutions Innovation Council (IIC) organized field exposure visit to Pattikadu village and School	All departments	24/10/2019
Smart India Hackathon 2020 (SIH) 4th edition	All departments	17/12/2019
Innovation week (I-Week)	All departments	18/12/2019
Awareness session on Intellectual Property Rights (IPR)	All departments	18/12/2019
Workshop on National Innovation and Start-up policy	All departments	19/12/2019
Field visit to prototype lab - "Team	All departments	18/12/2019

Reconnaissance" incubated at HITS-TBI				

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
International Aerial Robotic	Nandhini Balaji	Yunnan Innovation Institute, Kunming China	24/08/2019	Best Man - Machine Interface? award
YESIST12 @ Stamford University, Thailand	CSE	Stamford University	17/09/2019	Runner Up
KCG-MIC (MHRD Institution Innovation Council) received four Golden Stars, 2019	KCG College of Technology	MHRD	21/11/2018	MIC - Four Golden Star Award

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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
Incubation Centre	Innovation, Incubation and Entrepreneurship Cell	KCG College of Technology	Vayu-radha	Manufacturing	31/12/2019

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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	3	37

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

Name of the Department	Number of PhD's Awarded
Computer Science and Engineering	4
Electrical Electronics Engineering	5
Electronics Communication Engineering	3
Mechanical Engineering	5
Fashion Technology	1
Information Technology	1
Science Humanities	3

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	Automobile Engineering	1	1.28
International	Aeronautical Engineering	3	2.81
International	Civil Engineering	1	0.42
International	Electronics and Electrical Engineering	14	3.48
International	Electronics and Instrumentation Engineering	5	4.92
International	Fashion Technology	2	1.2
International	Mechanical Engineering	20	1.7
National	Automobile Engineering	1	0
International	Science and Humanities	11	3.39
National	Civil Engineering	2	0

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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
Science and Humanities	2
Electronics and Communication Engineering	1
Civil Engineering	3
Automobile Engineering	1

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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
Experimental studies on engine performance and emission characteristics using castor biodiesel	Arunkumar M., Kannan M., Murali G.	Renewable Energy	2019	15	Arunkumar, M., Department of Mechanical Engineering, Dhanalakshmi Srinivasan College of	15

as fuel in CI engine					Engineering, Coimbatore, Tamil Nadu 641 105, India Kannan, M., Department of Mechanical Engineering, KCG College of Technology, Karapakkam, Chennai, Tamil Nadu	
Crack detection using image processing: A critical review and analysis	Mohan A., Poobal S.	Alexandria Engineering Journal	2018	15	Mohan, A., Gurudeva Institute of Science and Technology (GISAT), Kottayam, Kerala, India Poobal, S., KCG College of Technology, Chennai, India	83
Acoustic and mixing characteristic of CD nozzle with inverted triangular tabs	Manigandan S., Vijayaraja K.	International Journal of Ambient Energy	2018	15	Manigandan, S., Department of Aeronautical, Sathyabama University, Chennai, India Vijayaraja, K., Department of Aeronautical, KCG College Technology, Chennai, India	17
Hybridizing bat algorithm with	Murugan R., Mohan M.R., Asir Rajan	Applied Soft Computing Journal	2018	15	Murugan, R., Department of EEE,	16

| artificial bee colony for combined heat and power economic dispatch | C.C., Sundari P.D., Arun achalam S. | | | | KCG College of Technology , Karapakk am, Chennai, 600 097, India Mohan, M.R., Department of EEE, Anna Unive rsity, Chennai, 600 025, India Asir Rajan, C.C., Department of EEE, Po ndicherry Engineerin g College, Puducherry | |

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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
Hybridiz ing bat algorithm with artificial bee colony for combined heat and power economic dispatch	Murugan R., Mohan M.R., Asir Rajan C.C., Sundari P.D., Arun achalam S.	Applied Soft Computing Journal	2018	15	16	Murugan, R., Department of EEE, KCG College of Technology , Karapakk am, Chennai, 600 097, India Mohan, M.R., Department of EEE, Anna Unive rsity, Chennai, 600 025, India Asir Rajan, C.C., Department of EEE, Po

Crack detection using image processing: A critical review and analysis	Mohan A., Poobal S.	Alexandria Engineering Journal	2018	15	83	Sujesh, G., Aeronautical Department, JCET, Lakkidi, Palakkad, Kerala, India Ramesh, S., Department of Mechanical Engineering, KCG College of Technology, 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	37	7	0	0
Presented papers	128	55	0	0
Resource persons	24	0	0	0

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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
Plastic Ban Awarness program	Tamil Nadu Govt-Plastic Pollution Free	25	1970
Dedication of stage and restroom facilities for school students at Pulliyur Village	KCG-NSS-MHRD-unnat bharat abhiyan	20	70
First aid Awareness Programme at Pulikundram Village	KCG-Rotaract Club-MHRD-unnat bharat abhiyan	20	70

Demonstration of innovation technologies for advancement in agriculture at Acharavakkam Village	KCG-IIC-MHRD-unnat bharat abhiyan	20	70
Computer Literacy training for school students at echoor Village	KCG-EWB-MHRD-unnat bharat abhiyan	20	70
Womens skill development for self-sustenance at Irumbedu Village	KCG-YService Men club	20	70
Rain Coat distribution	KCG-YService Men club	4	20
Breast cancer Awarness	KCG	75	20
World Mental Health Day	KCG	60	45
Beach cleaning at pallavam beach	KCG-EWB	100	200
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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
Empowering Differently Abled for Children's Day	Empowerment Award	Empowerment Award Chennai Special School For Muscular Dystrophy Chennai	40
Cleaniness	Clean and Smart Campus Award	AICTE	1500
Social welfare	Institution of the year	Prime Time	1500
EWB	Best Active Student Member	EWB India	1
CANCER AWARENESS	Best Awrness Initiative	Town Panchayat	76
DENGUE AWARENESS	Best Health Awrness Initiative	Karapakkam Town Panchayat	90
Tree Plantation Program	Global Awrness	Town Panchayat	50
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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	Name of the activity	Number of teachers participated in such	Number of students participated in such

	agency		activites	activites
PLASTIC POLLUTION FREE TAMIL NADU CAMPAIGN	PLASTIC POLLUTION FREE TAMIL NADU CAMPAIGN Tamil Nadu Govt- Plastic Pollution Free	Plastic Ban Awarness program	250	1000
UNNAT BHARAT ABHIYAN	KCG-MHRD- UNNAT BHARAT ABHIYAN	Dedication of stage and restroom facilities for school students at Pulliyur Village	3	10
UNNAT BHARAT ABHIYAN	KCG-MHRD- UNNAT BHARAT ABHIYAN	First aid Awareness Programme at Pulikundram Village	3	10
UNNAT BHARAT ABHIYAN	KCG-IIC-MHRD- unnat bharat abhiyan	Demonstration of innovation technologies for advancement in agriculture at Acharavakkam Village	4	7
UNNAT BHARAT ABHIYAN	KCG-EWB-MHRD- unnat bharat abhiyan	Computer Literacy training for school students at echoor Village	3	10
UNNAT BHARAT ABHIYAN	KCG-yService club	Womens skill development for self-sustenance at Irumbedu Village	4	10
Breast Cancer Awareness Campaign	KCG College of Technology	Breast cancer Awarness	75	20
Social Safety Programme	KCG College of Technology	Anti-Ragging Awarness Programme	25	400
Stress and Health Awareness	KCG College of Technology	Benefits of Yoga	3	48
Go-Green	KCG College of Technology	TREE PLANTATION	1	48
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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
International Aerial Robotics	Nandhini Balaji (Team Leader) SanjeeviGurunathan	KCG , Yunnan Innovation Institute, Kunming China	2
Conference	Mr. Jayababu A	KCG , Dhanalakshmi College of Engineering Mahabalipuram	1
Skill development	Mr. Jayababu A	KCG,Tamilnadu State council for science and Technology and Apollo College of Technology	1
Sewage Treatment Sludge management	Dr. V Vandhana Devi	KCG,Sewage Treatment Sludge management	1
International Conference on Sustainable Environment and Civil Engineering	Dr. V Vandhana Devi	KCG,Easwari Engineering College	2
Intellectual Property Rights	Dr. P S Aravind Raj	KCG,Anna University	1
Seismic Detailing of Reinforcement	Dr. P S Aravind Raj	KCG,AarupadaiVe edu Institute of Technology	1
Conference- Session chair	Mr.Vasanth Kumar	Jeppiar Engineering College	2
Conference- Session chair	Dr. M Krishnamurthy	Ramakrishna Mission Vivekanandha College	1
Resouce person - Outcome Based Education	Dr.Nirmala devi K	HIET, Padappai Campus	1
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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	Inplant Training	UCAL	25/05/2019	20/06/2019	6
Training	Inplant	Data	10/06/2019	30/06/2019	20

	Training	Patterns Pvt Ltd			
Training	Inplant Training	DRDL	25/05/2019	14/06/2019	20
Training	Inplant Training	Pawanmitra Aero Energies Pvt Ltd	27/05/2019	26/06/2019	7
Training	Inplant Training	Baralo Aero Sport	15/06/2018	30/07/2018	45
Training	Inplant Training	BMW	11/06/2018	10/08/2018	90
Training	Inplant Training	Tata Advanced Systems Ltd	15/05/2018	14/07/2018	60
Training	Inplant Training	HAL	18/06/2018	02/07/2018	15
Training	Inplant Training	Air India	11/06/2018	10/07/2018	30
Training	Inplant Training	Air India	01/06/2018	15/06/2018	15

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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
BSNL, Meenambakkam	17/12/2019	Industrial visit and Internship	90
NOKIA Solutions and Networks India Private Limited	11/01/2018	Internship, Placement, Faculty Training, Seminars, Projects, Industrial Visit	105
Starcom Information Technology Ltd	08/02/2018	Internship, Placement, Faculty Training, Seminars	85
GAVS Technologies Private Limited	04/05/2019	Internship, Placement, Faculty Training, Seminars	60
ASIA PACIFIC University of Technology Innovation	01/06/2018	Research Collaboration	1
FORD India Private Limited	14/06/2018	Car donation under CSR, Internship	49
KKM Soft Pvt Ltd	27/07/2018	Workshop, Seminar, Training Internship and	200

		Training	
Pepgra Healthcare Private Limited	18/08/2018	Consultancy, Internship and Projects	49
Guires Solutions Private Limited	18/08/2018	Consultancy, Internship and Projects	12
Data Patterns (India) Private Limited	28/08/2018	Placement under Incubation Model, Project and Internship	29

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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
1000	9910

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Newly Added
Seminar Halls	Existing
Laboratories	Newly Added
Class rooms	Newly Added
Campus Area	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 patially)	Version	Year of automation
PALPAP InsproPlus	Fully	Version 17	2016

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	813	77715	1144	269748	1957	347463

Reference Books	70	16279	144	239381	214	255660
e-Books	10103	13570	363	13570	10466	27140
Journals	116	368750	123	400862	239	769612
e-Journals	2	692285	2	665469	4	1357754
Digital Database	601	0	0	0	601	0
CD & Video	1962	20000	11	10000	1973	30000
Library Automation	1	100000	0	0	1	100000
Others(specify)	905	44532	0	0	905	44532
Others(specify)	3105	20000	300	2000	3405	22000

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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
Mrs.NagaLakshmi	Embedded Clauses	Youtube / Institutional LMS	01/03/2019
Dr.V.Andal	Soil pollution	Youtube / Institutional LMS	01/03/2019
Dr.R.Amrutha	Materials Science	Youtube / Institutional LMS	01/03/2019
Dr.Lakshmipathy	Air pollution	Youtube / Institutional LMS	01/03/2019
Dr.S. Nalini Jayanthi	Crystal Physics-Quiz	GOOGLE CLASS ROOM	30/09/2019
Ms. Tamil Selvi	Crystal Physics-Quiz	GOOGLE CLASS ROOM	30/09/2019
Dr. Gladwin pradeep	Crystal Physics-Quiz	GOOGLE CLASS ROOM	30/09/2019
Dr. R.G. Geethu mani	Crystal Physics-Quiz	GOOGLE CLASS ROOM	30/09/2019
Dr.S. Nalini Jayanthi	Phase diagram-Quiz	GOOGLE CLASS ROOM	16/02/2019
Dr.S. Nalini Jayanthi	Magnetic materials- Quiz	GOOGLE CLASS ROOM	23/02/2019

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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	859	12	800	0	0	42	113	175	0
Added	0	0	0	0	0	0	0	0	0
Total	859	12	800	0	0	42	113	175	0

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

175 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
Lecturing Capturing System	https://youtu.be/d8uEu33pjH8
Lecturing Capturing System	https://www.youtube.com/channel/UCVz2qx2XP3qjKFoFRRsrMpQ
Lecturing Capturing System	https://youtu.be/OA_IRWi7lvQ
Lecturing Capturing System	https://youtu.be/oSNdByAArPc
Lecturing Capturing System	https://youtu.be/evWmB1JdL-A
Lecturing Capturing System	https://www.youtube.com/watch?v=7jLsEfGemYM
Lecturing Capturing System	https://youtu.be/xQ_s6Tl9fek
Lecturing Capturing System	https://www.youtube.com/watch?time_continue=52&v=lx9E8pZJxYA&feature=emb_logo
Lecturing Capturing System	https://www.youtube.com/watch?time_continue=40&v=5eJH-ib7Q14&feature=emb_logo
Lecturing Capturing System	https://www.youtube.com/watch?v=VSHhU4Z3BV4&feature=emb_logo
Lecturing Capturing System	https://www.youtube.com/watch?time_continue=108&v=VmbrJskhA64&feature=emb_logo
Lecturing Capturing System	https://www.youtube.com/watch?v=_t_s3k4gScc
Lecturing Capturing System	https://youtu.be/RivJpFdgVek
Lecturing Capturing System	https://youtu.be/H1ij8JUWMuY
Lecturing Capturing System	https://youtu.be/4qRJSaBsHjM
Lecturing Capturing System	https://youtu.be/-7iHezTGDAk
Lecturing Capturing System	https://youtu.be/A8nqI7Ftyl0
Lecturing Capturing System	https://youtu.be/0Xzq2zr6KJ8

Lecturing Capturing System	https://youtu.be/VPvuIGJsAQ8
Lecturing Capturing System	https://youtu.be/Mbw1YgnTBKQ

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 incurredon maintenance of physical facilites
550	542	170	160

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)

There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. The college has appointed personnel for maintaining facilities such as buildings, transport, Electrical, gardening etc. Admin manager visits the building on regular basis and fulfill the requirement to ensure the building is clean, neat and safe for the occupation and usage. The furniture's are maintained properly with systematic maintenance and painting works. If there are complaints Separate complaint registers are maintained for various services. Complaints can be registered in the Ledger or through e-mail or electronically. Regular cleaning of college floors, classrooms, laboratories, equipment, and restrooms are being done by the housekeeping team. Stock verification of all labs and other facilities is done at the end of every year by the staff members from other department and the report is submitted to the Principal. Seminar halls and Auditoriums are controlled separately and their availability can be checked with the college office for utilization. These halls are maintained in such a way that is suitable for public gathering and the disinfectants are applied during the maintenance time to keep the occupants health a primary importance Maintenance of Laboratory Equipment Periodical check-up of equipment is carried out as per schedule by the lab coordinators. The measuring instruments are calibrated regularly In addition, maintenance is being done weekly, and monthly and yearly and respective registers are maintained in the laboratories. As per the requirement, minor repairs are carried out by the lab instructors or faculty member Major repairs for all laboratory equipment are outsourced by following the procedure as follows: 1.The service request is forwarded to principal through Lab-in-Charge and HoD 2. After approval, Quotation for service is called for and the recommended service provider is Identified and forwarded to the principal 3. After approval, the service is carried out in the presence of Lab-in-Charge 4. After service, the work completion statement and bills are submitted to the accounts Maintenance of Computer Laboratories Maintenance of computers is taken care by an in-house IT admin team Preventive maintenance and breakdown maintenance procedure is followed. Installation of antivirus and firewall ensure that the software and system are secured. A weekly status check on the hardware and software condition of the machines is undertaken and the same is noted in a register. Breakdown maintenance wherein the system fails due to SMPS problem or boot failure is recorded Transport facility Transport facility is provided by the transport department. The vehicles (buses, Cars) are periodically maintained and ensures a hassle free transportation to staff and students

https://kcgcollege.ac.in/facilities/

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	KCG Verghese Memorial Scholarships, Sports Scholarships and Other Freeships	260	9993550
Financial Support from Other Sources			
a) National	State Government SC / ST, BC, MBC and First Grauate scholarship	225	5175000
b)International	NA	0	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 implemetation	Number of students enrolled	Agencies involved
Guidance for Competitive exams	02/07/2018	751	GATE Academy, Patashala, TIME academy
Personal Counselling	02/07/2018	2412	One full time Counsellor and All the faculties of the Institution
Yoga Meditation	02/07/2018	751	Department of YOGA, Department of Physical Education and sports University,Kandigai, Chennai - 600127
Bridge Courses	02/07/2018	424	Mathematics Faculty of the Institution
Language Laboratory	02/07/2018	846	EBEK, English Faculty of the Institution
Remedial Coaching	02/07/2018	2412	All the faculties of the Institution
Soft Skills Development	02/07/2018	624	TIME, Internal Faculty Team, Freelance Trainers
Career Counselling	02/07/2018	2412	Infosys, Worksenses and Internal faculties
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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 passedin the comp. exam	Number of studentsp placed
2018	UPSC Awareness, TNPSC Awareness, US BOOT Camp, Australian Education Fair, Awareness on civil services	459	484	38	426
2019	UPSC Awareness, TNPSC Awareness, US BOOT Camp, Australian Education Fair, Awareness on civil services	351	391	21	344

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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
154	153	3

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
114	626	528	27	626	40

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to

2019	1	BE	Electrical and Electronics Engineering	Anna University	ME
2018	1	BE	Electrical and Electronics Engineering	University of colorodo	MS
2019	1	BE	Civil Engineering	NICMAR, Hydrabad	MTech
2018	1	BE	Civil Engineering	SRM University	MTech
2019	1	BE	Electronics and Communication Engineering	Anna University	ME
2018	1	BE	Electronics and Communication Engineering	Portland State University	MS
2019	1	BE	Mechanical Engineering	ISAE-SUPAERO	Advanced Master Systems Engineering
2018	1	BE	Mechanical Engineering	National Taiwan University and Technology	MS
2019	1	BTech	Information Technology	ISEP – Institute Superieurd' Electronique de, Paris	MS
2018	1	BTech	Information Technology	Loyola Institute of Business Administration	MBA

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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
NET	0
SET	0
SLET	0
GATE	4
GMAT	0

CAT	2
GRE	9
TOFEL	9
Civil Services	2
Any Other	24
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Orientation Programme for First Year Management Quota Students	Institution	226
PALS innoWAH Innovation Challenge Competition	National	100
KCG Engenius 2019	State	2000
Zeppelin 2019 – Interdepartmental Culturals	Institution	2000
Thaikudam Bridge Musical Event	State	1500
KCG Verghese Memorial Trophy	National	1000
College Sports Meet	Institution	2000
Hindustan Young Leaders Conference	National	400
Group Discussion Contest in Social Media in Today's World	Institution	50
Christmas Day Celebration	Institution	300
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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
2018	Winner	National	0	1	31101820 5017	Kirthik Roshan R
2018	Winner	National	0	1	31101820 5014	Jahnavi K
2019	Winner	National	0	1	31101820 5014	Jahnavi K
2018	Winner	National	0	1	31101610 6009	Arjun
2019	Winner	National	0	1	31101610 6025	Joshua David Raj

2019	Runner 2	National	0	1	31101610 6049	Praveen Madhavan
2019	Runner 2	National	0	1	31101810 7004	Sam Frankline
2019	Runner 2	National	0	1	31101810 7301	Dinesh R
2019	Runner 2	National	0	1	31101710 7022	Ranjith Kumar
2019	Winner	National	0	1	31101710 7025	Sabarish

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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)

Every department has an association with Student Council. The student council plays a vital role in departmental activities such as organizing symposiums, seminars, conferences and workshops. The council members and all the other students deliberately involve in their Department newsletter preparation. Especially department symposia are completely planned and conducted by students under the supervision of faculty. The students' representatives also actively participate in the following academic committees. Class Committee Every class shall have a class committee consisting of course handling faculty, student representatives and a chairperson who is not teaching the class. The functions of class committee include (i) Discussing problems experienced by students in the class room and laboratories and any general problem (ii) Informing the student representatives, details of regulations regarding weightage used for each assessment The class committee shall be constituted within the first week of each semester. Two subsequent meetings may be held in a semester at suitable intervals before the internal assessments. Online Feedback The online feedback is taken twice in a semester. It is taken from all the students for each course. Corrective actions are taken based on the consolidated feedback of each course. Interactive Feedback by Principal Dean-Student Affairs Feedback on the regular progress of the courses is obtained by the Principal and Dean once in a semester during the interactive session with a group, normally of equal ratio of boys and girls, totaling 9 students ranging from slow-learners to advanced-learners, inclusive of day-scholars and hostellers. IQAC The main objective of IQAC is to develop a system which will consciously work and serve as a catalyst to improve the academic and overall performance of the institution. IQAC has representatives from both faculty and students. The team is currently working on the strategy to improve the academic performance of the students and the placement opportunities. The main role of the team is to analyze the cause for lower placements through brain storming and to develop solution that can be implemented on a common platform. IQAC student's team frequently addresses the fellow students to get their suggestions for the overall benefit of the student's community. Other Co-Curricular Committees • Students are actively involved as Cultural and Sports Coordinators, HYLC organizing team etc. • The NSS unit at KCG was started in 2004 and is fully managed by the students. The various programmes conducted by the NSS have brought about a remarkable change in the outlook of the students and their attitude towards life and society • The NCC unit was started in 2009 with an aim to develop character, comradeship, discipline, leadership, secular outlook, spirit of adventure, and the ideals of selfless service amongst the cadets. • Students' chapters of various Professional Bodies like IET, IEEE, SAE, CSI, ISIS, and IE are actively taken forward by the students • The 'Cloud 10 Bazaar' is an annual feature where students put up stalls and experience first-hand, the joys and difficulties of

marketing, and hone their management skills

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni Association of KCG College of Technology (KCG Connect) is a registered society with registration number 458/2016 dated 12.9.2016. The KCG Connect Alumni Association is an official unit of the Institute with the primary objective to strengthen alumni connections with their Alma Mater and to promote establishment of alumni chapters at different geographical locations having adequate congregation of alumni. On 08.12.2016, an election was held and new members were elected. One of the objective of the association is to develop a mutually supportive relationship with alumni so as to encourage lifelong learning and continued growth of the alumni and at the same time provide opportunities to alumni to contribute in their own way to their Alma mater. The Goals are to: (i) Enhance employment and internship opportunities and help current students receive mentoring support from the Alumni (ii) Inspire, Motivate and educate young minds through Guest Seminars/Workshops (iii) Collaborate and support Technology Business Incubation (iv) Raise funds to support social causes such as Educational sponsor and Environmental awareness (v) Upkeep and uplift the reputation of the College and the Institutional Group • We have our college alumni group named KCGConnect on Facebook with more than 4000 active members in it who eventually harness alumni activities which is beneficial for students. The link for KCGConnect page is www.kcgconnect.in. This webpage which has Alumni registrations is maintained by our Alumni • Every DAB has two Alumni members who meet every year and contribute for identifying curricular gaps. • Nearly 50 guest lectures and mentoring sessions for career and interpersonal skills have been given by our Alumni in the past 3 years. Experiences that are shared by our alumni with students in time management, financial management, development of self-discipline and character, or in career management are more easily accepted as guidance and inspire students to follow. • We also have a practice of organizing Mock Interviews for our final year students before they start attending their placement drives. Nearly, 16 mock interviews by Alumni from reputed organization were organized last year. • We also have initiated an Alumni Expert Talk, wherein departments bring in their Alumni to share their expertise with the juniors. • Our alumni association has been registered and a bank account is being maintained effective from Nov 2017 and has fund of Rs.5,50,000 which is utilized for various activities. • Alumni Meet is organized every year mostly in the month of August. In Dec 2017, the Hindustan Group of Institutions conducted HGI Golden Convergence Meet. Many Alumni were nominated for Awards under various categories. Young Achiever Award was given to Jegatheeswaran P, Deputy Collector, Government of Tamil Nadu. • The last Alumni meet was conducted in 2019 • KCGConnect team has also launched a social outreach wing and is involved in community activities helping the needy people

5.4.2 – No. of enrolled Alumni:

5486

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

150000

5.4.4 – Meetings/activities organized by Alumni Association :

• 6 Meetings conducted in the year • Kerala Relief fund activities • Library setup for government school • School fees donations for economically weak students

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)

The Principal is the Head of the Institution and he ensures that the right ambience is created for the smooth functioning of all academic activities, intellectual growth, and research pursuits. He periodically conducts meetings with the HoDs, where ideas gathered from faculty members are exchanged and decisions are made regarding the better infrastructure and improvement in the academic performance of the students. He creates various committees in consultation with the Deans and the HoDs. To name a few Committees: IQAC, Disciplinary and Anti-Ragging Committee, Grievance and Redressal Committee, RD Committee, Academic Committee, etc. These committees help in the decentralization of work and collective responsibility. The Deans and HoDs work for the holistic development of the students. This is done with the help of academic coordinators, class teachers and counselors, who provide academic support, guidance, counsel, address grievances, maintain the database, keep tracks on attendance and communicate student progress to the stakeholders. Case study The institution offers decentralization and participative management in practice in the overall schema • HoDs play a crucial role in decentralizing the resources by scheduling the activities of the department and assigning responsibilities to the department faculty. • HoDs have functional autonomy in proposing the budget, course allocation, framing time table and takes the ownership of the department. • Organizing seminars, guest lectures, workshops, symposium, conferences, competitions, industrial visits, and in-plant training are delegated often to the faculty members by the HoD. • Faculty members are involved in the purchase and maintenance of equipment and consumables. • Faculty members act as representatives in the Governing Council, DAB, PAC, budget committee, library committee and other statutory bodies where important decisions are taken. One of the main objectives is to mentor the students, as quality citizens for the society at large, as participative management. • A mentoring system for the students is implemented with the participation of the faculty members in the ratio of 15 to 20 students to each faculty. • Each and every faculty maintain the record of complete students' profile. • A schedule is made periodically for monitoring the students' performance. • In addition to the curriculum, the extra-curricular and co-curricular activities are also considered for mentoring. Delegation of Financial Powers • Budget is allotted for programmes organized at the institutional level (College Day, Graduation Day, Sports Day, Orientation Day, Fresher's Day, Hindustan Young Leaders Conference etc.) and Value Added Programmes (VAPs) such as workshops, guest lectures, conferences, FDP etc., by the respective departments. Any programme to be organized is discussed with the Principal. After approval by the management, money is sanctioned and programmes are conducted. • Annual Budget for the respective department is prepared by the respective in-charges (lab procurement, infrastructure etc.) and forwarded to the Management for approval through Principal by HoDs. • Principal and Registrar have been authorized to sanction any expense up to an amount of Rs.20,000/- and Rs.10,000/- respectively.

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

Admission of Students	• For government quota candidates, counselling is done in different rounds based on marks. SMS and email alerts will be sent to the applicants via their registered ids and mobile numbers during each stage of counselling, which is organized by Tamil Nadu Engineering Admissions (TNEA). The allotted students have to report to the College within the reporting date given by TNEA. • The seats under Management quota are filled through Consortium of Self-Financing Colleges. After submitting the filled up application form, based on the Entrance Mark List published by Consortium of Self-Finance Colleges, Management shall give admission to the students.
Industry Interaction / Collaboration	KCG College of Technology has entered into a number of Industry-Institution partnerships through Memorandum of Understanding (MoU) with various organizations for training, technical collaboration and consultancy. These MoUs enable the students to get Internships, In-plant Training, Placement, and Research Exposure and contribute to making them Industry-ready and Competent professionals. MOUs to name: • SJMSOM (IIT Bombay) • Central Leather Research Institute (CLRI), Chennai • Ramco Systems Ltd • Barry Wehmiller International Resources (P) Ltd • Oracle University • BSNL • Inferno Racing X1 Racing League of Aditya Patel ArmaanEbrahim • Siemens Limited (SITRAIN INDIA) • Robert Bosch Engineering Business Solutions Private Limited • FORD India Private Limited • Alfa Machine Tools • MMC Skyport Innovations • Guires Solutions Private Limited • ASIA PACIFIC University of Technology Innovation • Builders Association of India • IET Ottawa Local Network • Signals and Systems (India) Private Limited • Pothigai Power Solutions Private Limited • Mazelon Technologies Private Limited • ProjectGuru (A Division of Vision Technology Group) • EGS Computers India Private Limited • ADROITEC • Palo Alto Networks CyberSecurity Academy • National Institute of Electronics and Information Technology (NIELIT) • Data Patterns (India) Private Limited
Human Resource Management	• The smooth running of the college is facilitated by three committees -

		the Governing Council, the Management Team and the Staff Council. • HR Policy Hand Book - available in the college website.
	Library, ICT and Physical Infrastructure / Instrumentation	• Innovative teaching aids are used to all classes • Books are issued to the students through Book Bank System • Upto 6.00 p.m. hostel students can avail the Central Library Facility • Introduction of Virtual Labs along with the Laboratory Courses • Dr. APJ Abdul Kalam Auditorium Inaugurated with seating capacity of 2000 • New labs were setup for Aerospace, Mechatronics, and Automobile Engineering Programme
	Research and Development	• Scopus, SCI, and Book publishing are rewarded • OD for conference publications, workshops/seminars with TA/DA and registration fee given • OD for PhD doing research scholars • Integrated International Conference has been organized by KCG-Research Forum • Final year students publish their project work in national/international conference/journals • Remunerations for consultancy projects
	Examination and Evaluation	• Semester Exams are conducted by Anna University • Internal examination has UT1, UT2, UT3, and Model with two set of questions and answers key are submitted to exam cell along with mapping to previous year university questions. • Class test are conducted for 2 marks questions • Central valuation for internal examinations • Cross valuation for internal examinations • After internal valuation, marks are entered in the ERP which are viewed by the students and parents using their login id. • Retests are conducted for absentees and failures beyond working hours.
	Teaching and Learning	• Assignments of higher order thinking skills are given • Usage of Innovative teaching methods • Usage of Smart Class Rooms • Usage of Digital Library • Usage of Google Class Rooms etc.,
	Curriculum Development	• Curriculum is given by Anna University • Any gap in curriculum with the Industry needs are discussed in the Department Advisory Board (DAB), and these topics are added as Content Beyond Syllabus with the course or covered in Value Added Programme (VAPs) • Course Faculty prepare the Content

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

E-governace area	Details
Planning and Development	• Academic schedule and activities for the development of students will be discussed in the HoD's meeting
Administration	• The Principal heads the administrative setup and is the key decision maker with regard to academic and administrative matters. • Dean (Academic) supports the Principal in various academic activities. • Dean (Student Affairs) takes care of the welfare of the students. • Registrar ensures good order in college and an atmosphere conducive to academic activity by producing timely and accurate statistics, class rosters, grades, certifications, and other reports. • All departments have their own respective department offices headed by the respective heads of departments.
Finance and Accounts	• The accounts manager monitors financial transactions and all the monetary transactions (both the receipts and payments) are processed through a nationalized bank.
Student Admission and Support	• Details available in college website https://kcgcollege.ac.in/admissions/admission-procedure-ug/ • Admission details and support are provided through ERP System. • Dedicated admission team works throughout the year.
Examination	• After internal valuation and university results, the marks and grades are updated in the ERP which are visualized by the students and parents

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	Mr.R.Natesan	International conference on Emerging Trends in Engineering Technology and Management	Nil	1382

		Technology		
2019	Dr T.Mothilal	'Performance and emission characteristics of diesel blended with sweet lime peel oil and corn oil. (Name of conference: ICRTMME 2019)	Nil	3333
2019	Dr T.Mothilal	"Analysis on Mechanical properties of wood plastic composite". (Name of conference: ICRTMME 2019)	Nil	3333
2019	Mr Mathavan	"e- Learning and MOOCs in Higher Education". (Workshop)	Nil	914
2019	Mr Mathavan	"Industry Capability Connect Success". (Workshop)	Nil	914
2019	Dr. Deepa Jose	Workshop on FPGA Design Flow using Xilinx Vivado(Workshop)	Nil	2748
2019	Dr.V. Thulasi Bai	The 4th Asia Pacific Tele-Opthalmology Society Symposium(APTOS 2019)	Nil	12500
2019	Mr. M.MohamedYaseen	The 4th Asia Pacific Tele-Opthalmology Society Symposium(APTOS 2019)	Nil	1406
2019	Mr.K.Karthikeyan	International conference on Emerging Trends in Engineering Technology and Management Technology	Nil	2285
2019		International	Nil	2159

	Dr.S.Jayakumar	conference on Emerging Trends in Engineering Technology and Management Technology				

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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 teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Nil	Skill Development for Lab Instructors	22/07/2019	22/07/2019	2	2
2019	Impactful Research	Nil	04/09/2019	04/09/2019	40	0
2019	Competitive Coding	Nil	31/01/2019	31/01/2019	15	0
2019	Doubt Clearing Session on Lex	Nil	28/02/2019	28/02/2019	10	0
2019	Foundation Programme5 .0	Nil	03/12/2018	14/03/2019	30	0

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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
Curious Program on Health Technology	2	17/10/2019	18/10/2019	8
FDP on Teaching techniques	1	12/07/2019	13/07/2019	8
Designing Active learning (ALC)	1	19/11/2019	19/11/2019	8
Faculty	30	04/11/2019	06/11/2019	8

Development Program on Teaching Learning at Teaching Learning Centre, IITM				
Teacher Adaptation for Effective Learning	4	25/11/2019	27/11/2019	8
Smart transformation to e – mobility	2	21/12/2019	21/12/2019	8
Train The Trainer	2	02/12/2019	06/12/2019	8
Pedagogical Aspects of Integrating MOOCs in Academic Curriculum	3	17/07/2019	17/07/2019	8
IC Engines and Gas Turbine	2	28/04/2019	28/12/2019	8
Designing Learner-centric MOOCs course	2	29/09/2019	29/10/2019	8
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
184	184	81	81

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Exemption of registration fees for FDPs organized in campus MoUs with foreign Universities for joint projects and staff exchange programs A 5-day exclusive induction training program for new faculty Provision of Experts and Advisors for the technical growth of faculty Expert lectures on niche technologies are organized regularly Faculty exchange	Various awards are given for excellence in specified fields Educational support to the children Emergency personal interest-free loans for medical/natural calamity Free boarding/lodging in the campus for certain maintenance staff and food for drivers at a subsidized rate A minimum amount of Rs.2,500/- as death relief to employees in the event of the death	Outstanding meritorious students in academic, co-curricular and extra-curricular activities are suitably awarded by the college. Deserving, meritorious and economically weaker students are given financial assistance by the Management for payment of tuition fees including free books and transport. The management encourages students to take part in technical

programmes with foreign universities Joint collaboration with leading industries for projects and faculty training QIP and Sponsorship for higher studies including doctoral research 12 days Casual Leave, 3 days Medical Leave, Maternity Leave, 20 days Earned Leave and 3 days Special Leave is granted

of any member in the family Restricted holidays and Festival Advance of 50 of the Gross Salary for Non-Teaching Technical / Admin employees Lab coats are provided to the Lab Instructors and Lab Assistants Personal Accident Insurance and Group Insurance Free consultations are provided by the Doctor on campus 12 days Casual Leave, 3 days Medical Leave, Maternity Leave, 20 days Earned Leave and 3 days Special Leave is granted Two sets of stitched Teri-cotton uniform with a pair of shoes and socks along with rain Coats / Umbrellas are given every year to the supporting staff Bonus amount is given to drivers during festivals

seminars (National and International) organized by industrial organizations and academic institutions. The participants are given monetary assistance in the form of registration fee, travelling expenses, etc. The Management has instituted cash awards for university rank holders as below. 1st rank (UG) - 1,00,000 1st rank (PG) - 50,000 2nd to 5th rank - 35,000 each 6th to 10th rank - 20,000 each 11th to 25th rank - 10,000 each The college also offers awards and incentives to the following categories of meritorious students. Best Outgoing Student Award Break the Barrier Award (for first generation graduate student) Young Leader Award Best Cultural Performer Award Best Sports Person Award Best Student Entrepreneur Award Best Researcher Award Best Cadet Award

6.4 – Financial Management and Resource Mobilization

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

Internal Audits A complete budget is prepared every year well before the academic year begins. Annual Budget for the respective department is prepared by the respective in-charges (lab procurement, infrastructure, faculty development, student development, conference/symposium, maintenance, software, consumables etc.) and submitted to the Registrar through Principal by HoDs. Another budget including infrastructure augmentation and maintenance is prepared by the Registrar in consultation with the respective team. Every semester, there will be an internal audit by the faculty team supported by accounts department to consolidate the budget utilized and the report will be submitted to the Registrar. The internal audit report will be reviewed by the Finance Controller and suggestions will be given in the Management Advisory Board Meeting of the Hindustan Group of Institutions. External Audits The external audit is done by the Auditors and the audited statement is published in our website.

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

KCG College of Technology	689546	Various Funded Projects
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6.4.3 – Total corpus fund generated

689546

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	BSI	Yes	IQAC
Administrative	Yes	BSI	Yes	IQAC

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

Department Advisory Board Fresher's Opening Day College Day Graduation Day PTA Meeting

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

Various awards are given for excellence in specified fields Educational support to the children Emergency personal interest-free loans for medical/natural calamity Financial support for death of any member in the family Free consultations are provided by the Doctor on campus Bonus amount is given to drivers during festivals Medical camps provided

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

Preparatory Coaching for GATE Other competitive Examination Class Room observations on Teaching Learning Quality improvement methods on Teaching Learning(IIT-TLC)

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
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	Preparatory Coaching for GATE Other competitive Examination	10/08/2019	10/08/2019	25/08/2019	37
2019	Class Room observations on Teaching Learning	02/09/2019	02/09/2019	05/10/2019	3
2019	Laboratory Audit	21/10/2019	21/10/2019	25/10/2019	5

| 2019 | Quality improvement methods on Teaching Lea rning(IIT-TLC) | 04/11/2019 | 04/11/2019 | 06/11/2019 | 30 |

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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
World Citizen Day	19/11/2018	19/11/2018	95	124
Women Codeathon	09/03/2019	09/03/2019	73	0
KCG Engenius	27/08/2019	27/08/2019	910	1056
Motivational Talk	31/08/2019	31/08/2019	23	8
Entrepreneurs hip Motivational Talk by IIC	28/09/2019	28/09/2019	17	35
Toastmasters (Leadership Empowerment and Communication Skills Development)	05/02/2019	05/02/2019	20	24
Toastmasters (Leadership Empowerment and Communication Skills Development)	12/02/2019	12/02/2019	20	24
Toastmasters (Leadership Empowerment and Communication Skills Development)	19/02/2019	19/02/2019	20	24

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
Total annual power requirement (in KWH) -590857 kWh Annual power requirement met by the renewable energy sources (in KWH)-154464 kWh (26)

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	10
Provision for lift	Yes	2000
Ramp/Rails	Yes	10
Braille Software/facilities	Yes	0
Rest Rooms	Yes	10
Scribes for examination	Yes	0
Special skill development for differently abled students	Yes	10

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	1	1	08/02/2019	1	Anti-Worm Medication	Social	150
2019	1	1	09/02/2019	1	Road Safety awareness Program	Social	300
2019	1	1	06/09/2019	1	Empowering Differently Abled	Social	60
2019	1	1	24/09/2019	1	Tree Plantation Programme	Environmental	315
2019	1	1	14/11/2019	1	Empowering Differently Abled for Children's Day Program	Social	80
2019	1	1	07/12/2019	1	Infrastructure development at Pattikadu/Puliyur	Social/ Environmental	100
2019	1	1	20/12/2019	1	Tamil Nadu Govt-	Environmental	1250

					Plastic Pollution Free		
2019	1	1	11/03/2019	1	Eye Check up Camp	Social and Health	50
2019	1	1	26/02/2019	1	Dengue Awareness	Social	49
2019	1	1	29/10/2019	1	Cancer Awareness	Social	49

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

Title	Date of publication	Follow up(max 100 words)
Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	16/11/2018	This Publication clearly spells about how the students and teachers to follow the code human values and professional ethics.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Republic Day	26/01/2018	26/01/2018	300
Independence Day	15/08/2018	15/08/2018	300
Teachers Day	05/09/2018	05/09/2018	250
Engineer's Day	14/09/2018	14/09/2019	150
Republic Day	26/01/2019	26/01/2019	253
Independence Day	15/08/2019	15/08/2019	300
National Unity Day	31/10/2019	31/10/2019	250
Teachers and Engineer's Day	14/09/2019	14/09/2019	150
National Science Day	28/03/2018	28/03/2018	100
Innovation Day	15/07/2019	15/07/2019	200

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

1. Waste water recycling 2. Rain Water Harvesting 3. Declaring campus plastic free 4. Modernization of infrastructure 5. Enhancement of renewable energy capacity.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title: Toastmasters Club for Faculty and Students Objectives Good communication skill of a teacher is the basic need of academic success of students, and professional success of life. Teacher communicates more instructions orally in classroom to students. Communication skills are important for many professions

but are crucial for teachers. Teachers communicate with students, parents, colleagues and administrators every day. Whether communicated face-to-face, on the phone, in print, electronically or through the public address system, the message must be constructed carefully and delivered clearly to be properly received. A Teacher with effective communication skills will alone be able to convey a technical content in a more structured way to the students enabling them to learn and promote their academics. Also all educators take on leadership roles. Teachers are considered as role models and are responsible for moulding the future leaders and are a source of inspiration for sharpening the leadership skills of the wards. Thus to enhance these two skills the toastmasters club was started in the year 2011. The Context Joining Toastmasters allows teachers to build the skills they need to become more confident public speakers and stronger leaders in every area of their lives. Toastmasters offer a proven education program meant for educating teachers through the process of self-improvement, communication and leadership training so that they may increase their confidence and usefulness in professional and community life. The mission of the club is to provide a mutually supportive and positive learning environment in which every individual member has the opportunity to develop oral communication and leadership skills, which in turn foster self-confidence and personal growth. The Practice • KCG TM Club is the first club started exclusively for the teaching fraternity in district 82 of Toastmasters International (TMI) covering Tamilnadu and Srilanka. • The College sponsored the chartered fee of 125$ and 45 $ per head (30 members) for term 1 and 30 $ per head for term 2 during the year of installation (Approximately 1.6 Lakhs) . • We meet on every Tuesday between 2.00 pm and 4.00 pm and every meeting will be conducted in a more structured form. We will have three parts namely 1. Prepared Speeches, 2. Table Topics (impromptu speeches) and 3. Evaluation Session. TMI provides a curriculum containing a list of projects, guidelines of executing and evaluating the same. • Every project given in the curriculum is provided with clear guidelines for content delivery and the speeches are well structured and timed. We have evaluation speech contests, humorous speech contests, table topic speech contests and prepared speech contests conducted at club, area, division, district and international level every year. Evidence of Success 1. Have received Golden Gavel Award Twice, the highest recognition for a club in good standing 2. Have been certified as distinguished club continuously for 5 years. 3. We started the students club 'KCG Youthmasters TM's club in 2015-16. 4. We are involvedin conducting soft skills programmes and speech craft programmes for our students. It also enables the industry-institute relationship as the members of the corporate clubs are invited as resource persons for guest lectures, seminars, training programmes and conferences.We have hosted three division conferences in our college campus as venue partners. 5. Our members have completed certifications like Competent Communicator, Competent Leader, Advanced Communicator Bronze, Advanced Communicator Silver, Advanced communicator Gold, Advanced Leader Bronze and awards like 'Excellence in Leadership', 'Best Secretary Award', 'Smedly Award', 'Rising Star Award' etc. 6. Two of our members have served as district officers for 2 respective terms (Area Directors) Best Practice 2 : Title: Innovation and Entrepreneurship Development Centre (IEDC) KCG College of Technology has two wings of operation, namely i-cell (innovation cell) ande- cell (entrepreneurship cell). Keeping in line with the vision mission of the institution, IEDC aimed at excellence in technology facilitating innovation, entrepreneurship and social entrepreneurship. Objectives The aim of IEDC is to guide and encourage the students to convert their ideas into innovations, to create an entrepreneurial eco system on campus, to train the students to analyse the market opportunity through entrepreneurial skills and to convert innovation to commercialisation. The Context With the support of our management, the college became a member of National Entrepreneurship Network (NEN) who backed the formation of e-cell i-cell in November 2008 May 2009

respectively. This brought an all new buzz of entrepreneurship on campus to develop and support our next generation of entrepreneurs and entrepreneurial leaders – young people who will take India to the next level of development and growth. On the basis of the innovative projects developed by our students, DST selected our institution to establish IEDC with a Grant-in Aid of Rs. 44.45 Lakhs over the period of Five years. The IEDC Grant-in-aid is a unique initiative by the Government of India to impart knowledge based and innovation driven hands on experience to students while pursuing their graduation studies and to train the students and faculty on entrepreneurship. This led the students to be intrapreneurs and entrepreneurs The Practice Ideation 1. Students were asked to submit their ideas using a simple 6W (what, why, who,when, where How) format. The submissions were reviewed by a panel of members consisting of faculty Industry experts. 2. Every year on an average 25 to 30 ideas would be submitted by students from which 10 to 12 ideas were short-listed based on the innovation, feasibility, social relevance and cost effectiveness. 4. Each selected team was allocated a faculty coordinator to refine their idea. 5. Each one of the teams was groomed in presenting and validating the ideas. 6. All these teams presented the ideas to an advisory panel consisting of members representing DST, MSME, Industry and Academia. 7. Other short-listed projects were also mentored. Apart from this, Entrepreneurship Awareness Camps, Entrepreneurship Development Programmes, Faculty Development Programmes are organised for the benefit of Faculty and Students. Interaction and interning with practising entrepreneurs is also facilitated. Also, the awareness regarding IPR, Start-up Registration, Finance, business opportunities, processes, technologies, market, etc. are given. Evidence of success ? Learning by Doing Having acquired this skill of learning by doing, students showed progress in academic performance and in their project work which forms a part of the curriculum. The shortlisted students and their project work motivated other students to look at i-cell and e-cell as an opportunity to emerge as successful intrapreneur / entrepreneur. The entrepreneurial eco system on campus was building momentum. ? Students Participation in Competitions Students of i-cell and e-cell participated in competition like NASSCOM, Hackathons, GSEA, Google Summer of Code (GSOC), IIT PALS (consecutive winners for the past 3 years), Mozilla FireFox, Yahoo Hackathon, AICTE –Smart India Hackathon(consecutive winners for the past 2 years) and several other events. 36 Patents have been filed in the past 5 years and 10 have been published. ? Entrepreneurship Trained Faculty The management encouraged faculty to get trained by NEN and NSTEDB sponsored EDCs as entrepreneurship educators who in turn trained other faculty and students. This enabled the faculty to intertwine curriculum and entrepreneurship in their class room teaching which helped students see entrepreneurship as another career path. ? Skill Development The participation of students in all these activities developed in them the following skills ? Communication skill ? Presentation skill ? Team building skill ? Negotiation skill ? Decision making skill ? Networking skill ? Time management skills ? Social skill ? Entrepreneurs from IEDC IEDC has successfully turned about 160 students as entrepreneurs in the Field of technical, Service, Hospitality, Software development etc. Best Institutional Award for Entrepreneurship: Won the prestigious SEED-2016 award by the Society for Educational and Entrepreneurship Development (SEED) at the India International Centre, New Delhi. Bagged The Runner-Up Award in National E-Week 2015 16 Conducted By National Entrepreneurship Network (NEN) ? Funding from DST In the year 2010 , the National Science Technology Entrepreneurship Development Board (NSTEDB), DST India, approved the establishment of IEDC with the grant-in-aid of Rs.44.5 Lakhs (Rs.4.45 Lakhs as Non-recurring budget Rs. 8 Lakhs / year as recurring) covering a period of five years until 2015.The IEDC Grant-in-aid is a unique initiative by the Government to impart knowledge based and innovation driven hands on experience to students while pursuing their graduation studies. ? KCG

Innovation Incubation and Entrepreneurship Centre (KCGIIEC) The experience of operating a campus company has enriched the skills to become their own boss. This achievement of i-cell and e-cell made our management to invest in setting up a Technology Business Incubator- KCGIIEC in 2015. Today, this TBI houses 6 businesses operated by entrepreneurs from the community as well as alumnus of KCG College of Technology. About 7 companies matured from KCGIIEC. It also provides opportunity for students to intern with the incubatees. In 2016-17, KCGIIEC has been approved by MSME as Host Institution / Business Incubator to function in the premise of KCG College of Technology. This grant will nurture the incubatees(to a maximum of 10) with a financial support of Rs.6.25 lakhs for a period of one year.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://kcgcollege.ac.in/pdf/media/Best-Practices-20.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

Distinctive Feature : Holistic professional development through KCG Clubs " To make every man a success and no man a failure" – Dr. K.C.G.Verghese, Founder Chairman Aligning our motives to the vision of our beloved Chairman Dr. K.C.G Verghese, our college focuses on holistic education. The main objectives of holistic education are learning about oneself, developing healthy relationships and positive social behaviors, social and emotional development, resilience, and the ability to view beauty, experience transcendence, and truth.Holistic education notes that students need to not only develop academically, but develop the ability to survive in the modern world. They need to be able to rise and face the challenges presented to them in the future and contribute to the world in which they live. Students need to learn to first value themselves, their worth, and recognize their abilities and how to be able to do what they want in life. With this perspective of sensitizing them to the needs of the society, we have established 22 clubs including technical, non-technical and social clubs during the first year of every UG programme offered in the institute. The technical clubs are liable for forming SIG (Self Interest Groups) later in the departments and the non-technical clubs both cultural and social, help in grooming the students as socially responsible citizens. Clubs offer a fun means of developing and honing leadership skills and the ability to work collaboratively. Club activities do engage in a rich variety of opportunities to distinguish one-self while enjoying the communion of fellow students who share the same passion and interests. These clubs function on every working saturday in the afternoon sessions. Technical Clubs: 1. Aero Modeling 2. Mobile Apps 3. IoT 4. Robotics 5. Programming 6. B2L 7. Project 8. Women's Coding and 9. KML2 Non-Technical / Social Clubs: 1. Music 2. Dance 3. Quiz 4. Photography 5.Civil Services Aspirants 6. MUN 7. Dramatics 8. Toastmasters 9. Rotaract Out-Door Clubs: 1. Horse Riding 2.Sports 3. Fitness 4.Cycling The objectives and recent activities are available in the college website and a link to the website is provided below.

Provide the weblink of the institution
https://kcgcollege.ac.in/academic-support/clubs/

8.Future Plans of Actions for Next Academic Year

(1) NBA accreditation for few other departments like aeronautical etc. (2) Improving the h –index of the institutional publications (3) Improve the per capita research publications of the institute from 0.8 to 1.5 (4) Improving the number of internships to enhance employability (5) Streamlining the Buddy system

to improve the peer learning (6) Introduction of Foreign languages training programs to improve the placement opportunities in the Core area.