



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution	KONKAN GYANPEETH COLLEGE OF ENGINEERING, KARJAT
Name of the head of the Institution	Dr. Madhukar Jagannath Lengare
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02148-222580
Mobile no.	9881273667
Registered Email	pillewan73@gmail.com
Alternate Email	principalkgcekarjat@gmail.com
Address	Konkan Gyanpeeth Shaishnik Sankul, Vengaon Road, Dahivali, Tal-Karjat, District-Raigad
City/Town	Raigad
State/UT	Maharashtra

Pincode	410201																		
2. Institutional Status																			
Affiliated / Constituent	Affiliated																		
Type of Institution	Co-education																		
Location	Rural																		
Financial Status	private																		
Name of the IQAC co-ordinator/Director	Prof.G.S.Darvankar																		
Phone no/Alternate Phone no.	02148222580																		
Mobile no.	9822463661																		
Registered Email	kgce.iqac@gmail.com																		
Alternate Email	gsdarvankar@rediffmail.com																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	https://kgce.edu.in/wp-content/uploads/2018/11/SSR-KGCE.pdf																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	https://kgce.edu.in/ac/																		
5. Accreditation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accreditation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B+</td> <td>2.7</td> <td>2019</td> <td>28-Mar-2019</td> <td>27-Mar-2024</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accreditation	Validity		Period From	Period To	1	B+	2.7	2019	28-Mar-2019	27-Mar-2024
Cycle	Grade	CGPA	Year of Accreditation	Validity															
				Period From	Period To														
1	B+	2.7	2019	28-Mar-2019	27-Mar-2024														
6. Date of Establishment of IQAC	15-Jan-2018																		
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																	

Health checkup Camp by Unicare Health center	11-Aug-2018 01	89
Provision of smart/digital interactive board facility for effective teaching learning	20-Oct-2018 90	66
Renovation of library and reading section infrastructure.	18-Sep-2018 80	1126
Organizing of communication skill, Aptitude training and group discussions by Campus Credential, Thane	01-Aug-2018 15	273
Organizing Soft skill and Aptitude training by Amplitude Technology, Karjat	19-Jul-2018 15	88
Conduction of orientation program for first year engineering students.	01-Aug-2018 01	210
View File		

8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
No Data Entered/Not Applicable!!!				
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	5
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

Compliance of NAAC accreditation and visit of Peer Team was conducted on 25/03/2019 26/03/2019. Institute was Accredited with B grade (CGPA 2.7)

Feedback from stakeholders are collected, analyzed and action taken report prepared and forwarded to Principal for implemented.

Invited talk on guidance for competitive examinations and career counseling by experts through training and placement cell and department level student bodies.

Arranged value addition training and certificate programs for students to improve their technical and soft skill quittance.

Promotion of extension and outreach programs through NSS cell.

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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
Compliance of NAAC accreditation.	<ul style="list-style-type: none">• Institutional Self Study Report (SSR) for 1st cycle of Accreditation to NAAC in October 2018.• Compliance visit of NAAC pier team was conducted on 25/03/2019 26/03/2019.• Institute was Accredited with B grade (CGPA 2.7)
Conduction of orientation program for first year engineering students.	<ul style="list-style-type: none">• Orientation program of 1st year engineering students (Fresher's) was conducted on 01/08/2018.• The new admitted students and their parents aware of engineering curriculum, syllabus, and examination pattern of the university along with rules and regulations of the institute.
Organizing Soft skill and Aptitude training by Amplitude Technology, Karjat	<ul style="list-style-type: none">• Program is conducted for 42 hours in the academic year 2018-19 by Amplitude technology, Karjat under MoU signed dated 07/07/2018• 88 students have completed the training successfully out of 90 registered students.
Organizing communication skill, Aptitude training and group discussions by Campus Credential	<ul style="list-style-type: none">• Program is conducted for 30 hours in the academic year 2018-19 by Campus Credential, Thane under MoU signed dated 02/08/2018.• 273 students have completed the training successfully out of 287 registered students.
Renovation of library and reading section infrastructure.	<ul style="list-style-type: none">• A separate hall with ample light and ventilation furnished with 200 sitting

	capacity is provided for staff and students. • Digital library section and video center developed.
Provision of smart/digital interactive board facility for effective teaching learning.	• Faculty uses ICT for delivering the lectures in classrooms apart from traditional chalk and talk method. • Teachers study material including soft copy, PPT slides etc. are shared with students.
Guest lectures/workshops and seminars	• Students were benefitted with improvement in their technical knowledge, soft skill and helped to prepare for competitive examinations.
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Local Managing Committee	09-Jan-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
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Date of Visit	25-Mar-2019
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2019
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Date of Submission	17-Jan-2019
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17. Does the Institution have Management Information System ?	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Institute has financial management "ZOOM software" with effect from Academic year 201718 for the purpose of preparation of monthly salary statement, generation of salary slips, fees collection from students and payments to vendors. Institute also have biometric system for attendance monitoring, online admission and examination form filling provision for students. The students and parents are communicated through SMS alert regarding attendance, student progress and current affairs in the form of
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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

• Konkan Gyanpeeth College of Engineering Karjat, Dist.-Raigad, (M.S.) is one of the NAAC accredited colleges, affiliated to the University of Mumbai. • Before commencement of each academic year, University of Mumbai gives the guidelines and academic calendar including the dates of commencement of each semester, practical & oral examinations, term end, and end semester examination. • Based on the university guidelines, the Academic Calendar of the institute is then prepared and conveyed to all the departments. Conduction of a departmental meeting by the respective Head of Department with the faculty and staff members is the general practice in college, to discuss the academic calendar, teaching load distribution, time table etc. • The time table co-coordinator of each department follows the given academic calendar and load distribution, prepares the timetable for the class and various courses of the program. Accordingly the students are informed about the semester academic calendar through notice-boards and institute website. • As per interest area of students, final year projects are also decided and allotted. To deliver the lectures as per the course syllabus and specified outcomes, every faculty prepares the course plan and required material. Faculty also maintains the course file and Academic Record Book/s (ARB) for allotted subject/s. • At the end of every month, Head of the departments take the reviews of syllabus coverage as per lesson plan of faculty. Students' attendance for individual subject is being monitored through Academic Record Book/s. The theory classes and practical sessions are being monitored by the monitoring committee. • Head of departments conduct regular meetings to review the teaching learning process, the academic progress of the students, grievances if any, remedial actions are also taken as and when necessary. • Institute follows the method of continuous progressive assessment of the student with respect to practical, assignments, tutorial, course project, mini project etc. Internal Assessment Tests are conducted twice in a semester along with regular assessment of practical and assignment. Internal Assessment Test for the repeater students as per university guidelines is also conducted once in a semester. • As per the need of course/subject, the field visits/industrial visits are being organized by the respective departments with the prior permission of Principal. • Before university theory examinations, Oral/practical examinations are conducted as per university norms and guidelines. Result analysis is carried out by the departments after the declaration of university results. • Parent coordination is the compulsory part of ARB and all the parents are informed through the letter regarding the attendance and performance of their ward, twice in a semester. Parent meet is also conducted at least once in a semester and feedback obtained is used as one of the measures for improving teaching learning process. • The system of feedback from the other stake holder viz. teachers, employers and alumni is also undertaken by the institute, which is further conveyed to higher authorities for corrective measures.

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
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Digital Marketing and Earn Money Online -- 05 06 October 2018 Entrepreneurship Website development and Marketing	--	05/10/2018	02	Entrepreneurship	Website development and Marketing
Workshop on PCB Designing	--	13/10/2018	01	Employability	Familiarized with PCB Designing Technology
Training program on sewage treatment , Urea and Ammonia plant	--	17/01/2019	02	Employability	Knowledge and industrial exposure
Cross Platform-Mobile application Development	--	10/01/2019	04	Employability	Mobile application development
Big Data and Hadoop	--	08/02/2019	02	Employability	Data Analytics
Workshop on IoT with Raspberry Pi3 using Python	--	15/03/2019	03	Employability	IoT
Hands on Workshop on IoT	--	10/08/2018	02	Employability	Enhance knowledge, interfacing and demonstration of IoT kits.

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
View File		

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	Computer Engineering	01/07/2018
BE	Electronics and Telecommunication	01/07/2018

	Engineering	
BE	Instrumentation Engineering	01/07/2018
BE	Mechanical Engineering	01/07/2018
BE	Production Engineering	01/07/2018
BE	Information Technology	01/07/2018

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

	Certificate	Diploma Course
Number of Students	274	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
Softskill and Aptitude (Amplitude Technology)	25/07/2018	90
Communication Skill and Aptitude Training (Campus Credential)	01/08/2018	287
Cross Platform-Mobile application Development (By ATS Learning Solutions)	10/01/2019	51
Hardware and Networking Training under PMKUVA Scheme (By Crystal Solutions LTD, Mumbai)	10/04/2019	17

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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
No Data Entered/Not Applicable !!!		

[View File](#)

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
Feedback about Institute is taken from all students, twice in a year. This includes the feedback about the facilities, infrastructure of the institute and

faculties Communication Skills, Quality of Teaching/ Academic input, Subject Knowledge, Content and Method of Delivery, Resourcefulness, Readiness of teacher, Accessibility and Availability of teacher in Campus etc, on departmental level. It is then analyzed and conveyed to the management as well as faculties. Suggestions, if any are put in the management meeting and necessary actions are taken. Counseling of faculty having feedback count less than 7 (on scale of 10) is carried out by Vice-Principal (Academics) and Principal for his/her improvement. Teachers are also involved in the feedback system. This feedback is taken once in the year, which includes the feedback about the facilities, infrastructure of the institute, content of curriculum, environment in the campus, administration policies etc. Our institute conducts a Parent Teacher meeting once every year. During the meeting, parents are made aware about their wards' attendance, academic performance for the semester as well as about the various learning processes conducted in the institute. The feedbacks collected from the parents during the meeting are analyzed and suggestions given by parents are taken into consideration for further actions. Also this helped in identifying the parents who would help in providing support to the institute in terms of internship projects and placement etc. Alumni Feedback is taken from alumni in each academic year, preferably during alumni meet. This feedback is then analyzed. This analysis helps the institute in overall development of the curriculum and institute. Various companies visit the campus of the institute for the placement of the students. We take feedback from various employers. Based on this feedback, guest lectures, workshops, seminars are organized for students to help them to be ready for industry exposure.

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
No Data Entered/Not Applicable !!!				
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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	1126	0	66	0	66

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
No Data Entered/Not Applicable !!!					
View File of ICT Tools and resources					

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

Student success is at the core of any academic institution and, we at Konkan Gyanpeeth College of Engineering, Karjat offers unique mentorship program where they have the opportunity to develop a relationship with a faculty member to conquer the challenges in a journey of their life. Mentorship program is dedicated to create an environment for growth and development of student to achieve their personal goals, professional ambitions and academic excellence along with valuable campus resources and opportunities. During journey of engineering, Students often need mentoring, guidance and counseling such as admission process, department resources, selection of electives, career options or fear of a subjects so our mentorship program gives them additional point of contact. Our Institute is emphasizing towards enhancing the institutional ambience to better serve the needs of an ever-changing and dynamic learning community. Effective mentoring begins with the faculty and depends on the healthy relationship between faculty and students. Each student has a faculty member as a mentor throughout all his or her entire engineering degree. Mentor keeps all personal details of the students including address, contact numbers, overall academic performance and progress. Our faculty schedule regular meeting with student's minimum twice in a month to solve all kinds of issues faced by them. Mentor advises the student regarding projects and industrial trainings also counsels and motivate them in all academic matters-direct or indirect. Mentor guides the students in taking up extra-curricular and co-curricular activities for value addition as a member of the society. Mentoring of all sorts can greatly enhance their experience and assist them in actively engaging in educationally-purposeful activities which are known to improve their success. Mentoring can assist students in engaging as part of a larger community it can strengthen their ability to recognize their skills, abilities, interests and assist them in thinking thorough and accomplishing long-term goals. This way the Mentorship Program helps to contribute towards a student's academic excellence and overall development as a professional Engineer.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1126	66	1:17

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
72	66	6	0	2

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
No Data Entered/Not Applicable !!!			
View File			

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
No Data Entered/Not Applicable !!!				
View File				

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

Assessment of performance is an integral part of teaching and learning process. At the beginning of the Semester, an evaluation plan is made as per the guidelines of the University to assess the learning levels of the students. The institute is affiliated to Mumbai University and hence strictly follows University evaluation processes. The institute conducts two Internal Assessment Tests of 20 marks each at institute level, comprising theory, numerical and design/application questions. The average marks of both tests are considered as internal assessment marks in theory course. The answer sheets of tests are assessed and shown to the students for further improvement. The internal committee of institute is formed for conducting the internal Assessment test smoothly. The internal assessment work consists of lab work, seminars, mini projects, projects, in-plant trainings. All these activities are separately assessed. Each term work head is evaluated on a scale of 10 marks each. The term work marks is then assigned based on average marks as per the subject scheme considering timely submission, neatness in presentation, and attendance. The laboratory work conducted on a day is assessed by the faculty on the same day next week. The work is assessed by faculty and understanding of student is tested by asking a few questions. Marks are assigned right in front of the student thereby maintaining transparency. For the continuous assessment the related entries of marks scored by the students are made in academic record book on regular basis which contained lecture plan, time table, work details of each day, attendance report, lecture compliance report, result analysis, Records of research papers, mini project evaluation report, project work evaluation report, parent meeting report. The final year projects are evaluated on the basis of internal presentations reviewed by internal guide and review committee. The committee advises the project students and their guides about their areas of improvement. In rare cases the committee even recommends to change the project topic. The final project internal marks are assigned on the basis of continuous progress monitoring, the scope and methodology adopted along with frequent and reporting with guide.

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

The Academic calendar is prepared by the IQAC and Vice-Principal (Academics) of the institution before the commencement of each academic year. University gives the pathway regarding date of commencement of each semester, Practical Oral Examinations, Term end, End of Semester Examination in the form of academic term circular. The Academic Calendar of the institute, based on the university guidelines is then prepared and given to all the departments. The calendar outlines the semester class work, practical sessions, internal examination and end semester examination schedule. We prepare the academic calendar for the institute and also a department wise activity schedule for smooth functioning. This ensures that the curriculum is enriched through related activities like guest lecture, extension series and industry interaction. The Head of Department allocates the courses based on faculty choice and area of specialization. Then faculty member prepares lesson plan before the commencement of semester, indicating the topics to be covered, teaching methodologies being applied and assignments given to the students with evaluation process for each allotted subject and get approved by Head of the department. A course file and academic record book (ARB) for each course is prepared by the faculty. The evaluation process for each subject is reviewed by Head of Department. Time table in-charge of each department prepares the time table as per the guidelines given by the university and load distribution. Time table is then displayed on the respective department notice boards and also on institute web site. The performance of the student is assessed on continuous basis by conducting to internal assessment test per semester based on the university norms. The average marks of both tests are taken into consideration. In addition to the test, practical, assignments/tutorials, mini/course project

are also part of CIE. The evaluated answer books are shown to the students to clarify their doubts about the evaluation process. The academic schedule prescribed is strictly adhered by all departments and monitored by Vice Principal (Academics). The institute maintain a high standard of CIE through ARB and ensure oral/practical examinations are conducted jointly by internal faculty and an external examiner. The schedule of end semester University examination of various courses is displayed by University on website and same is communicated to the students through institute notice boards and website.

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://kgce.edu.in/computer-peos-psos-pos/> <https://kgce.edu.in/e-tc-peos-psos-pos/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
No Data Entered/Not Applicable !!!					
View File					

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://docs.google.com/forms/d/1j4rA9nOKKZTiKhaqVt2LZy6WiBkcVowD6LuoSU6BUIM/edit?usp=drive_web

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
Minor Projects	365	UGC Grant/ University of Mumbai	35000	14000
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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
Information trade and patent writing	All Institute Departments	11/08/2018
Website Development	COMP/IT	14/03/2019
4 Days Cross Platform Mobile App Development	COMP/IT	10/01/2019
Career in Oil Gas Sector	MECH/INST	07/08/2018

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
Doctorate Program	Dr.V.J.Pillewan	University of Mumbai	11/01/2019	PhD
View File				

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
Konkan Gyanpeeth College of Engineering, Karjat.	Mr. Sagar Mohite	Self	STRATUS Instrumentation Pvt.Ltd.	Instruments Calibration	19/07/2018
Konkan Gyanpeeth College of Engineering, Karjat.	Mr. Bhavik Sudhra	Self	M.B. ENTERPRISES	Control Panel Manufacturing	13/08/2018
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

Name of the Department	Number of PhD's Awarded
0	0

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	Mechanical Department	2	3.4
International	Electronics and Telecommunication	3	4.7
View File			

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
Mechanical Engineering	2
Electronics Telecommunication Engineering	6
Production Engineering	3
Science Humanities	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
Identifyin g key success factors of sustainabi lity in supply chain management for industry 4.0 using DEMATEL method	Prof.M.T.B hagawati	Springer Nature Singapore	2019	2	Springer Nature Singapore Pte Ltd	2
Wear Analysis of Charcoal, unprufied nanotubes and purified corbon nanotubes based metal matrix composite	Dr.V.J.Pil lewan	ELSEVIER	2018	1	Science Direct	1
Carbon to Carbon Nanotubes Synthesis Process: An experim ental and numerical study	Dr.V.J.Pil lewan	ELSEVIER	2018	1	Science Direct	1
View File						

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
Carbon to Carbon Nanotubes Synthesis Process:	Dr.V.J.Pil lewan	ELSEVIER	2018	1	1	Science Direct

An experimental and numerical study						
Wear Analysis of Charcoal, unprufied nanotubes and purified corbon nanotubes based metal matrix composite	Dr.V.J.Pil lewan	ELSEVIER	2018	1	1	Science Direct
Identifyin g key success factors of sustainabi lity in supply chain management for industry 4.0 using DEMATEL method	Prof.M.T.B hagawati	Springer Nature Singapore	2019	1	2	Springer Nature Singapore Pte Ltd
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
No Data Entered/Not Applicable !!!				
View File				

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
Rain Water Harvesting	KGCE NSS Unit	2	22
Tree Plantation at KGCE Ground	KGCE NSS Unit	8	55
One day Social Activity at Kotwalwadi Adivasi Vikas Kendra, Neral	ITSA/ IT Dept	1	37

Solid Waste Management	KGCE NSS Unit	2	23
Diaster Managment	KGCE NSS Unit	2	30
Cloth Bags Diatribution at Bhoirwadi	KGCE NSS Unit	4	56
Rally ON Road Safety	KGCE NSS Unit	4	70
7 Days NSS Residential Camp	KGCE NSS Unit	5	50
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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
Cleanliness Drive at Bhoirwadi	Appreciation Letter	Grampanchayat Tiware	63
Awareness and Distribution of Clothes Bags in Bhoirwadi Village	Appreciation Letter	Grampanchayat Savele	63
Cleanliness Drive at Jambhivali	Appreciation Letter	Grampanchayat Savele	50
Cleanliness Drive at Salokh	Appreciation Letter	Grampanchayat Savele	50
Cleanliness Drive at Barne, Tambas village	Appreciation Letter	Grampanchayat Savele	50
Rally on Road safety in karjat City	Appreciation Certificate	Regional Transport Office, Panvel	70
Play on Street Play	Appreciated by awarding trophy	Karjat Municipal Corporation, Karjat	30
View File			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Swachh Bharat	KGCE NSS Unit	Street Play Anti plastic Cloth Bags	4	60
Gender Issu	KGCE NSS Unit	Self Defence Awareness for Ladies	4	40
Swachh Bharat	KGCE NSS Unit	Cleanliness Drive in College	4	68

Swachh Bharat	KGCE NSS Unit	Cleanliness Drive at Bhoirwadi	4	63
View File				

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
Cross Platform Mobile Application Development (CPMD) with Microsoft Certifications by ATS Infotech Pvt., Ltd., Pune	44	Self	4
Industrial Training/Internship by Rubrics Softcon Pvt.Ltd., Pune	16	Self	31
Industrial Training/Internship by Rubrics Softcon Pvt.Ltd., Pune	16	Self	31
View File			

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
No Data Entered/Not Applicable !!!					
View File					

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
No Data Entered/Not Applicable !!!			
View File			

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
4950000	11001784

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

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
SOUL	Fully	Soul 2.0	2015

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	30182	10811983	230	118655	30412	10930638
Reference Books	1025	1025000	39	19129	1064	1044129
Journals	140	450000	54	153000	194	603000
e-Books	400	176397	85000	98021	85400	274418
e-Journals	195	817929	1617	331889	1812	1149818
CD & Video	1327	0	14	0	1341	0
Library Automation	1	30000	0	0	1	30000
Others (specify)	0	0	1	36580	1	36580
View File						

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
Prof. J. P. Patil	Computer Networks	http://moodle.kgcef.orum.co.in/course/v	07/01/2019

		iew.php?id6	
Prof. A. S. Kunte	Automata Theory	http://moodle.kgceforum.co.in/course/view.php?id3	07/01/2019
Prof. A. S. Kunte	Unix Lab	http://moodle.kgceforum.co.in/mod/folder/view.php?id62	14/01/2019
Dr. Anil Kale	Data Mining and BI	http://moodle.kgceforum.co.in/course/view.php?id5	14/01/2019
Prof. A. D. Palsodkar	Digital Forensic	http://moodle.kgceforum.co.in/course/view.php?id10	07/01/2019
Prof. A. S. Kunte	Intelligent System Lab/AI	http://moodle.kgceforum.co.in/course/view.php?id13	16/07/2018
Prof. A. S. Kunte	Internet Programming	http://moodle.kgceforum.co.in/course/view.php?id12	16/07/2018
Prof. A. S. Kunte/ Prof. P. B. Lad/ Prof. H. G. Dagade	Structured Programming Approach	http://moodle.kgceforum.co.in/course/view.php?id2	07/01/2019
Prof. P. R. Bhosale/ Prof. V. M. Kharche	Aptitude Test/ Discussion Forum	http://moodle.kgceforum.co.in/mod/quiz/view.php?id131	14/01/2019
View File			

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	661	23	437	36	32	15	39	100	89
Added	40	2	0	0	0	0	0	0	0
Total	701	25	437	36	32	15	39	100	89

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

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Prof. J. P. Patil	http://moodle.kgceforum.co.in/course/view.php?id=6
Prof. A. S. Kunte	http://moodle.kgceforum.co.in/course/view.php?id=3
Prof. A. S. Kunte	http://moodle.kgceforum.co.in/mod/folder/view.php?id=62

Dr. Anil Kale	http://moodle.kgceforum.co.in/course/view.php?id=5
Prof. A. D. Palsodkar	http://moodle.kgceforum.co.in/course/view.php?id=10
Prof . A. S. Kunte	http://moodle.kgceforum.co.in/course/view.php?id=13
Prof . A. S. Kunte	http://moodle.kgceforum.co.in/course/view.php?id=12
Prof . A. S. Kunte/ Prof. P. B. Lad/ Prof. H. G. Dagade	http://moodle.kgceforum.co.in/course/view.php?id=2
Prof. P. R. Bhosale/ Prof. V. M. Kharche	http://moodle.kgceforum.co.in/mod/quiz/view.php?id=131

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
2000000	6075582	1500000	1456004

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

The institute has developed a standard methodology for utilization maintenance of all physical, Academic support facilities available in the campus.

Laboratories (All Labs Computer Center)

- All laboratory in the institute are administered by department wise laboratory In-charge (a faculty).
- In case of any maintenance/repairs, the subject teacher has to inform the concerned Lab In-charge in written about the specific maintenance/repair needed for the equipment/instrument.
- The lab In-charge has to forward the application to Principal through Head of respective Department.
- Upon evaluating the specific problem, Principal forwards the application to Institute Maintenance Committee.
- Institute Maintenance Committee takes corrective action for minor maintenance/ repairs. In case of problem which is out of scope of In-house Maintenance Team, a vendor is appointed to resolve the same by calling quotations and further decision is made by Institute Level Purchase and Procurement Committee in consultation with management.

Utilization of support facilities:

- Requirement of the particular facility (e.g. seminar hall, laboratory, class room etc.) is to be forwarded by Head of Department to Principal/ Vice- Principal.
- The Principal/ Vice-Principal directs concern support facility in-charge to verify the availability of the existing resource and need of the facility demanded and accordingly permits the usage of the same.

Sport / Ground Maintenance

- A faculty has assigned the responsibility of Sports In-charge, who has to look sports accessories and supporting accessories of indoor and outdoor games.
- The Sports In-charge has to issue all sports equipment with proper consultation with Principal and the Management.

Maintenance of ground, sport kits and all consumable items are brought from outside vendor as per the requirement.

- Instructor of Gymnasium takes care of equipments and if there is need of any maintenance/ repairs then outline maintenance procedure will be followed.

House Keeping of classrooms, laboratories and the entire institute campus

- Institute has in-house house-keeping team which looks after all the cleanliness of the classrooms, laboratories and the entire institute campus.

IT Facilities

- Institute has

appointed dedicated team to maintain the IT facilities in the Institute which includes maintenance of computers, LCD Projectors, Printer, Scanner and other peripherals Electrical Maintenance • Institute electrical maintenance team takes care of all the electrical maintenance of the peripherals, equipments, infrastructure and power related resources available in the institute. Garden • Institute has employed a dedicated gardener who takes care of garden, lawn and the indoor plants placed at various locations in the institute. Canteen • Canteen committee is into functioning to take care canteen related issues including quality of food, price list, menu details and earmarked space for students, faculty and staff etc. This committee also makes frequent visits to canteen for ensuring good quality of food and service in canteen. Hostel • The institute is not having provision for hostel facility of its own but rented hostel facility for boys and girls students is available neighboring the campus to overcome locational disadvantage at affordable rate.

https://kgce.edu.in/wp-content/uploads/2020/03/Maintenance_Policy_procedure.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Institutional Financial Relief	13	324412
Financial Support from Other Sources			
a) National	Scholarship from Government Sources	710	13412339
b) International	0	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 implementation	Number of students enrolled	Agencies involved
No Data Entered/Not Applicable !!!			
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
No Data Entered/Not Applicable !!!					
View File					

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

0	0	0
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5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
No Data Entered/Not Applicable !!!					
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
No Data Entered/Not Applicable !!!					
View File					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	1
CAT	1
GRE	2
Any Other	5
View File	

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

Activity	Level	Number of Participants
No Data Entered/Not Applicable !!!		
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
View File						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

As per the directions of the Director Student Welfare, University of Mumbai, every year institute level Student Council is formed. The Students Council consists of following members: 1. Secretary 2. Cultural Representative 3. Sports Representative 4. Ladies Representative 5. NSS Representative 6. Class Representatives In addition to above posts, institute designates two additional posts namely i) Technical Head, ii) Administrative Head for the smooth

conduction of institute level activities. The main objective of forming the student council is to develop the leadership qualities in students. The other objective of student council is to arrange and host social, extra-curricular and Co-curricular activities in the institute. The council promotes and coordinates various cultural and sports activities in the annual function "Spring Fiesta". The cultural activity includes arranging the events like Antakshari, Fashion Show, Drama, Debate, Singing Competition, Dance Competition, Marathi Vangmay Mandal etc. The Sports activities are Cricket, Kabaddi, Football, Carom, Chess, Kho-kho, Dodge ball and Throw ball etc. In all the above events students participate and showcase their talent. The student council also arranges technical festival named as "HyperKube", in which various technical activities are arranged like robotics, technical paper presentation, LAN gaming, aqua booster and many more. Students are also actively involved in various other institute level committees like Grievance Redressal and Anti Sexual Harassment Committee, Anti Ragging Committee, Library Committee, Cultural Committee, Sports Committee, Hostel and Canteen Committee, Institute Website Update Committee, Student's Council, Women Internal Complaint Committee/Woman Development Cell, Institute Bulletin Committee, Technical Fest Committee and IQAC etc. Ultimately, student council establishes and nurtures a healthy and co-operative environment in the institute, which helps in overall development of all students.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni Association is established on 26th January 2005 and registered in 2010 with registration number MH45/2010 (Raigad). All passed out students of the institute become life member of alumni association. The association helps in building up the network of the alumni. In last 24 years more than 8000 students have graduated from KGCE. Many of them are working at India and abroad in the well reputed organization. The senior alumni members those who are working at higher post in the industry are backbone for the development of KGCE. They are contributing the KGCE by various means, like to conduct technical seminars, to recommend KGCE students for the placements and to give the feedback and suggestions for the improvement of the institute. Alumni association acts as the bridge between alumni and the institute. The association organizes the alumni meet annually. The meet gives platform to alumni for giving suggestions through formal or informal interactions.

5.4.2 – No. of enrolled Alumni:

304

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

40000

5.4.4 – Meetings/activities organized by Alumni Association :

03

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)

1. Organizing Spring Fiesta 2K19 The institute organizes decentralized activity "Spring Fiesta" a sports cultural activity. a) The Principal issues a notice to all departments informing to start the process for forming the college level

Students' Council. b) The posts in the student council are also mentioned along with eligibility criterion. • After receiving the applications with all supporting documents, the candidates (students) are shortlisted displayed on Notice board. • A notification from the Principal indicating the list of faculty staff members to work as committee members for the selection of cultural, sports Ladies Representative is circulated. • The committee members conduct the interview following the guidelines selection procedure prescribed by the Institute/University. • The list of college level student's council is displayed notification for the selection of "Secretary" on college student's council is given. • Voting is conducted on ballot papers specially designed duty signed by the Principal and Co-ordinator of Students Support Welfare. • The result of the elections is displayed along with the number of votes for each candidate. The cultural sports Co-ordinators (Staff representatives) call a meeting with student's council for the formation of sub committees to divide finalize the events programs for 'Spring Fiesta" (Annual Function). Before transferring the funds from the college account the budget for the "Spring Fiesta" is finalized by the respective staff Co-coordinator Students' Council. The budget is sent for the formal approval of the Principal. The Students' Council has a bank account where in the funds from the college account are transferred Students' Council takes the necessary decisions here after by forming sub committees for conduction of meetings for smooth functioning. The council takes the guidelines of the staff coordinators. The schedule for the Spring Fiesta is displayed and activities are conducted as per the schedule and leadership qualities are developed among students. 2. Program Academics and Administrative Activities controlled by Head and Faculty The Institute Level Academic Calendar is referred for preparation of the departmental Academic Calendar. The HOD circulates a notice, inviting subject choices and laboratory requirements from staff, for upcoming Semester. The H.O.D. allocates the responsibilities to the staff through a Departmental Notice/ Circular. The elective subjects' choices are invited from the students and assign the faculty accordingly. Lesson Plan for each subject, is taken by the HOD from the respective subject in- charges. The subject In-charge, decides the number of lectures for a particular topic, the depth required for each topic teaching methods to be used. Attendance record is displayed by the HOD after receiving the attendance report from the staff. The syllabus coverage report is taken from every subject In-charge before every Internal Assessment Test (IAT). After the Internal Assessment Test (IAT)-II, the final submission schedule is displayed for the students to submit their term work. The submission schedule is decided by the HOD in discussion with staff in the department meetings.

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

Partial

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	Admission process is purely controlled and implemented by Directorate of Technical Education (DTE) Maharashtra through Centralized Admission Process (CAP). The eligibility is to qualify Common Entrance Test conducted by DTE Mumbai. Direct Second year admission is conducted by DTE Mumbai. The members of admission committee visit various schools and colleges to increase the awareness about different engineering

programs. The students and staff members are invited to visit different departments of the institute. The faculty members visited various Junior colleges and coaching classes to deliver the seminar on career guidance and empower the students to make decision about their future education.

Industry Interaction / Collaboration

The Training and Placement Officer and his team visit various companies for interaction and extending invitation for campus visits. The students get opportunities to interact with executives and entrepreneurs from various industries. The guest lectures from industry experts are arranged to improve industry interaction/ collaboration. It also comprises industry internships for the students, during vacation. The institute takes feedback of students from various recruiters to upgrade the quality of the students. The institute signed MOUs with different companies like Crystal Solution Private Limited, Treezee E solution Private Limited, Rao Associates, Rubrics, Precon Automation and System Private Limited for the placement of the students. The students are encouraged to work on real time industry projects. The Training and Placement cell provides placement opportunities for pass out students also by arranging on-campus and off-campus drives.

Curriculum Development

The Institute is affiliated to University of Mumbai and followed the syllabus and curriculum prescribed by the University. The experienced staff members of the institute are appointed in syllabus revision committee by University. The gaps between industry and academics, the recent advances in technology are identified. The opinions and suggestions of experts from various fields are considered. The gaps and recent trends are incorporated in the revised syllabus and forwarded to syllabus revision committee for final approval.

Teaching and Learning

Academic calendar is prepared by referring the academic calendar of university of Mumbai. It is made available for students on website of institute as well as on notice board. Each department prepares their own activity plan. The faculty member makes

their own lesson plan for the allotted subjects and provides course materials for the students. The course assignments are displayed and practical are performed in the laboratories. Mentoring and counseling of slow learners are part of teaching and learning process. Module wise questions and old university questions papers are discussed and made available on the institute website. The faculty members maintain the course file and academic record book for the allotted subjects. Guest lectures, seminars, workshops, Tech-Fest are organized for the students to enhance their practical knowledge. Extra lectures are arranged for S.E. direct admitted students and slow learners'. Continuous progressive assessment of the students with respect to practical, assignments, tutorials, course project, mini projects etc. is carried out during the semester. The feedback system is implemented and conducted by the department. The suggestions and analysis of feedback is conveyed to higher authorities for corrective measures.

Examination and Evaluation

The institute conducts two Internal Assessment Tests of 20 marks each. It includes theory, numerical and design/application questions. The average marks of both the tests are considered as an Internal Assessment test marks in theory course. Institute follows the continuous evaluation scheme for evaluation of practical's, assignments, mini projects, course projects, case study etc. Term work assessment is based on subject scheme and performance of the student. End semester theory examination and practical/ oral examination as per the schedule of University of Mumbai is conducted for each program. Information regarding the revaluation of answer sheets and verification of marks is displayed on notice board and website by the examination section of the institute.

Research and Development

Research and Development cell of institute monitors the research activities carried by the students and faculty. The cell constantly encourages to faculty and students and provides financial support to attend various activities like seminars, workshops,

guest lectures, orientation programs, STTP FDP etc. Training and Placement cell takes care of skill development and entrepreneurship development among the students by organizing various programmes. The faculty members and students are applying for funds from the University of Mumbai for their research projects under minor research scheme. The Institute encouraged the faculty for pursuing higher education and grants, study leave, duty leaves whenever applicable.

Library, ICT and Physical Infrastructure / Instrumentation

The infrastructure of institute includes seminar hall of capacity 250 audience equipped with ICT facility. The class rooms, office, laboratories are equipped with necessary hardware and software. The institute has also Central Library, Communication Laboratory, Internet, Wi-Fi and Girl's common room facilities. Institute library is automated with Soul 2.0 software designed and developed by INFLIBNET center based on the requirement of Institute. The Institute has collaboration with IIT Mumbai central library. Students have open access for e-books and NPTEL videos for extra learning. The institute provides the adequate ICT facilities, Wi-Fi, LAN and smart boards for effective teaching and learning. The institute is under the CCTV surveillance.

Human Resource Management

The Head of department provides the requirement of human resource according to load prescribed by the University to the Principal. The Principal forwards the requirement and takes approval from the Management. There are two types of recruitments, one is through USC (University Selection Committee) and other is at the college level (ad-hoc appointments) against the sanctioned vacancies.

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

E-governance area	Details
<p>Planning and Development</p>	<p>The annual budget of the department is received from the respective head of department. The Head of the department after discussion with departmental committee prepared the annual budget and submit it to the higher authority. The Management committee comprising of teaching and non-teaching representative discusses the financial</p>

	<p>matter regarding grants received and needs of departments so as to plan and budget.</p>
Administration	<p>The day to day administration of the institute dealing with students, faculty and staff members is partially computerized. It includes online admission, examination form filling, important circulars and messages conveyed to students and parents etc.</p>
Finance and Accounts	<p>The budget estimates and audited statements are prepared regularly. The internal and external audits are carried out to ensure effective and efficient use of financial resources. There is a proper allocation and utilization of the annual budget. It includes the internal and external financial audits.</p>
Student Admission and Support	<p>DTE does the admission process as per the norms of AICTE, Government of Maharashtra rules and regulations. The admission is carried out through CAP rounds. The students from diverse backgrounds are eligible for scholarship and free ships as per the government rules. The institute supports the students throughout the course duration through grooming them with aptitude/ soft skills. The institute supports them financially for projects. The students also get financial support for sports and cultural activities at other institutes. The payment of student fee is also received through NEFT/ RTGS mandates. The financial weak students are allowed to pay fees by the installments.</p>
Examination	<p>The examination scheme is provided by University of Mumbai. University currently offers choice based grading system of examination where in the students have choice to select department level and institute level electives during 3rd and 4th year. The institute Conduct centralized two internal assessment test in each semester. The examination cell has facility to receive the online papers from university during theory exams. Information regarding results revaluation of answer sheets and verification of marks is displayed on notice board and website by the exam cell of Institute.</p>

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	Prof .P. R. Bhosale	TEQIP-III Sponsored Start- Up Conclave 2019 at Sardar Patel College of Engineering, Mumbai	Start-Up Conclave 2019 SPCE	3000
2018	Prof. R. S. Meshram	Faculty Development Program at A.P.Shah College of Engineering and Technology, Thane	AICTE	600

[View File](#)

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)
2018	Python Inf ormative Workshop	--	24/08/2018	24/08/2018	17	0
2018	Introducti on to Rapid Prot otyping	Introducti on to Rapid Prot otyping	29/09/2018	29/09/2018	6	9
2018	Safety Ins trumentati on System in Submarine	--	06/10/2018	06/10/2018	18	0
2019	SIS in Process Industry	--	15/02/2019	15/02/2019	22	0
2019	--	Hands on Training on CNC milling Machine	16/02/2019	16/02/2019	0	9

2019	Android Application Development	--	07/03/2019	07/03/2019	15	0
View File						

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
Orientation Programme	23	05/07/2018	25/01/2019	01
Refresher Programs	1	02/07/2018	07/07/2018	06
Workshop	7	02/08/2018	04/11/2018	03
Short Term Training Program	1	24/06/2018	29/06/2018	06
Faculty Development Program	5	06/06/2018	08/06/2018	02
View File				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
32	34	125	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1. Provident Fund 2. Medical Insurance of Rs.1, 00,000/- with major contribution (60) in its premium. 3. Leaves (Casual, Earned, Medical, Vacation) as per University norms. 4. Subsidized Bus Transport Facility 5. Maternity leaves for female staff.	1. Provident Fund 2. Medical Insurance of Rs.1, 00,000/- with major contribution (60) in its premium. 3. Leaves (Casual, Earned, Medical, Vacation) as per University norms. 4. Subsidized Bus Transport Facility 5. Maternity leaves for female staff.	1. Government scholarships. 2. Awards for meritorious achievers. 3. Subsidized Bus Transport Facility 4. Book bank scheme at nominal charge. 5. Group insurance. 6. Funds for project

6.4 – Financial Management and Resource Mobilization

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

The budget estimates and audited statements are prepared regularly. The internal and external audits are carried out to ensure effective and efficient use of financial resources. There is a proper allocation and utilization of the annual budget. Institution Internal Audit Internal financial audit is the continuous process and accounts officer mainly handle it. Internal audit is carried out annually. During the internal audit, the auditors may give few

suggestions related to some of the finance and stock-related records, giving opportunity to the institute to address and rectify the same. The Institute has appointed internal auditors which belong to the Rahul Dharkar college of Pharmacy Research Center which is under Konkan Gyanpeeth Trust from academic year 2018-19 onwards. Institution External Audit Every year a group of external auditors comprising a team of chartered accountants perform the auditing of the institutes financial records and book as per guidelines of the income tax department. For external audit Management has appointed chartered accountant Mr. V. A. Vaidya of Vaidya Associates Karjat, who takes care about external audit at the end of every financial year.

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
Go-Cart Team Exclusive Participation at Jaipur	45000	Project Exhibition and participation
View File		

6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	1. Local Inspection Committee of University of Mumbai 2. External Nominated Resource Persons	Yes	Interdisciplinary departmental head and faculty
Administrative	Yes	1. Local Inspection Committee of University of Mumbai 2. External Nominated Resource Persons	Yes	Interdisciplinary departmental head and faculty

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

The institute conduct a orientation program for first year engineering students. The newly admitted students and their parents makes aware of engineering curriculum, syllabus, and examination pattern of the university along with rules and regulations of the institute. The parent's teachers meeting are held at least once in a semester by respective department. 1. The parents are updated regarding the efforts taken by the institute for the progress of their ward. 2. Parents provide their valuable suggestions for the improvement of facilities/academic functioning and other inputs for the overall

development of student and institute. 3. The feedback from the parents are noted and conveyed to the higher authority for improvement.

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

1. A seminar on, "Awareness of investment in Mutual Funds." on 18-07- 2018 2.A seminar on "Naturopathy on 09-02-2019 3.A seminar on, "Awareness of First Aid" on 23/03/2019

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

1. To invite talk on guidance for competitive examinations and career counseling by experts through training and placement cell and department level student bodies. 2. To develop and implement strategic plan for next five years of the institute. 3. To revise code of conduct handbook for various stack holders and monitoring institutional academic and administrative activities through it.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Conduction of orientation program for first year engineering students	16/04/2019	01/01/2018	01/01/2018	210
2018	Organizing Soft skill and Aptitude training by Amplitude Technology, Karjat	16/04/2019	19/07/2018	09/03/2019	88
2018	Organizing of communication skill, Aptitude training and group discussions by Campus Credential	16/04/2019	01/08/2018	23/03/2019	273
2018	Renovation of library and reading section infr astructure	08/08/2018	18/09/2018	07/01/2019	1126

2018	Provision of smart/digital interactive board facility for effective teaching learning	08/08/2018	20/10/2018	20/10/2018	66
2018	Health check-up camp by Unicare Health Center	08/08/2018	11/08/2018	11/08/2018	89

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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
Spring Fiesta(2k19)	29/01/2019	31/01/2019	110	58
Sports Activities	17/01/2019	28/01/2019	90	36
Garaba Celebration	17/10/2018	17/10/2018	162	89
Hyperkube-19	28/03/2019	29/03/2019	172	53
Student Council	26/12/2018	15/01/2019	10	7

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
Percentage of power requirement of the College met by the renewable energy sources Average Power Consumption: - 16774.2 kWh per month Details of LED bulbs in use: - 20 LED Lamps of 18 W each, 8 LED lamps 9 W each, 22 Tube Lights each of 100 W Light energy consumption met by LED bulbs: 463.216 kWh per month Percentage of Annual Lighting Power requirements met through LED bulbs: 2.76

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	No	0
Ramp/Rails	Yes	0
Braille Software/facilities	No	0
Rest Rooms	Yes	0
Scribes for examination	No	0

Special skill development for differently abled students	No	0
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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
No Data Entered/Not Applicable !!!							
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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)
Human Resource Manual	10/08/2018	This Manual is to discriminate policies and procedures that will govern the management of personnel involved at different levels in the Institute. These policies and procedures extend from the recruitment of the different categories of employees, defining their roles and responsibilities. This Manual also defines the terms of employment and conditions of service of employees engaged for different post. The Manual is meant to institutionalize an organizational culture which respects basic human values and practices that promote team spirit, shared responsibility and participatory functioning. It is expected that employees strictly adhere to the rules and regulations spelled out in this document.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Freshers Party	01/10/2018	01/10/2018	220

Farewell (Comp/IT/EXTC/MECH)	16/04/2019	30/04/2019	178
Convocation	09/03/2019	09/03/2019	189
Workshop on Self Defence management	16/10/2018	16/10/2018	40
Seminar on Environmental Awareness and Solid and Liquid management	12/10/2018	12/10/2018	110
Seminar on Responsibilities of Woman Development Cell	22/01/2019	22/01/2019	52
Holi Celebration	20/03/2019	20/03/2019	69
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Plastic Free campus Plastic Free campus is a program that aims to measurably reduce plastic pollution in college campus, with a special focus on the reduction and ultimately the elimination of plastic bottles, plastic straws, utensils, and plastic food packaging. Moreover, the plastic cups dishes and bags are replaced by paper cup and paper dishes. First year students are made aware of hazards of plastics to the environment through the subject Environmental Studies and a visit to plastic waste treatment plant developed by Karjat municipal council Karjat (Raigad) is organized by institute to see the conversion of the plastic waste into tar. NSS volunteers staff has arranged the Street play, rally in the nearby area and distributed cloth bags to students as well as peoples of Karjat. 2. Green landscaping with trees and plants: Fortunately institute is located in a green zone of Raigad district. However tree plantation and maintenance is the major practice of the institute to maintain the pristine, purity and aesthetic beauty of the institute to provide a congenial atmosphere for the academic and non-academic pursuits. Lawn is equipped with sprinkler system reduce water wastage amp less consumption of electricity for regular watering. The range of plants and trees available and planted in and around the campus are nurtured by gardeners. 3. Usage of LED bulbs The benefits of using LED bulbs in the premises arises increased in energy efficiency, lower electric bills, a longer bulb life, and a better and safer light source overall. 4.Paperless Office Most of the documents are stored in office in digital format. Students as well as the staff data and the important documents are managed and stored in the computers by using various softwares. Notice or any documents are sent to the staff members using institute website, what's app, messenger and E-mail instead of circulating hard copy. LCD TVs are provided at key locations over which various institute related Notices, circulars and important information are displayed. 5.Walk, Bicycle ,Bike or college Transport when possible Institute provides their students and employees, common transport bus facility instead of their own vehicles. Few of the students staff are carpooling/sharing, bicycle as trying to cut down on driving can help the environment and save a lot of gas money as well.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Beat Practice: I 1. Title of the Practice: Value Added Training Programs

Imparted by the Institute 2. Objectives of the Practice: Train the students to meet the growing demands of corporate sector and thereby to increase the employability of the students through campus placement. 3. The Context: The Institute is affiliated to University of Mumbai and follows its curriculum and academic structure designed by the University. Obviously the pace of updating the syllabus in response to the needs of industry cannot be maintained. The majority of the students admitted in institute are lacking in communication skills and soft skills since the institute is located in rural area of Raigad District. All this contributed to lower selection rate in recruitment drives of various companies. Institute identified where improvement was needed: i. Students lack in aptitude skills. ii. Students are weak in communication skills. iii. Students also lack in basic technological inputs. iv. Lack of awareness among students about importance of aptitude tests. To improve upon the above the new policy was planned and implemented by the institute. 4. The Practice: The policy consisted of the methodology and schedule of imparting various inputs to the students in order to improve the performance of students in recruitment drives. The inputs were subdivided into systematically design training modules catering to communication skills, domain knowledge and soft skills. In order to make the students aware of the importance of various skills i.e. aptitude, communication, soft skills and technical skills, counselling sessions were conducted with collaboration of Campus Credential, Thane and Amplitude Technology, Karjat. A representative schedule of inputs to be provided to students at various Evidence of Success: The success rate in aptitude test / screening test was found improved in recruitment drive of various companies. 5. Problems Encountered and Resources Required: • One of the major problems faced was the availability of time. Giving these extra inputs as per the planned schedule was difficult to adjust in the academic schedule. • Another challenge was to evoke the response of the students for the activity scheduled in extra time. • Need of additional financial resources to impart these training was another hurdle. Best Practice: II 1. Title of the Practice: Extension and Outreach programmes conducted through Institute NSS Cell. 2. Objective of the Practice: To promote extension and Outreach programmes in the neighborhood community 3. The Context: To provide the opportunities to inculcate the qualities among the students to understand social consciousness and problems of communities. These activities/programmes sensitizing the students to social issues and develops belongingness to the welfare activities towards the society. NSS program Coordinator conduct regular meet ups with volunteers and plans forthcoming activities. 4. The Practice: This objective is achieved through a NSS Cell established in 2015 with 50 volunteers under the NSS Unit of University of Mumbai. The NSS unit conducts various activities/programmes like environmental protection, cleanliness drive, tree plantation and various awareness activities related to road safety, plastic ban, disaster management and distribution of cloth bags in Bhoirwadi village nearby Karjat, Dist. Raigad. NSS unit adopted a village Savele Group Grampanchayat and 07 days (5th to 11th January 2019) residential camp was organized to promote social awareness among the tribal community. During the camp, students motivate to understand the problems of rural life and try to nurture the habitat. The awareness programs and sessions by experts on the themes like health awareness, personal hygiene, literacy, awareness related to superstitions, gender equality, women empowerment, female feticide, disaster management to name a few. 5. Evidence of Success: The letter of appreciation from Sarpanch of the village was also received to NSS cell regarding the same. By performing various activities/programmes for the community in the neighborhood of Karjat, the NSS cell received appreciation in the form trophy from Municipal Corporation Karjat on 26th January 2019. 6. Problems Encountered and Resources Required: It is difficult to convince the people and change their mind set. They are reluctant to involve in active participation. It finds difficult to arrange funds and appropriate resource person.

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

<https://kgce.edu.in/wp-content/uploads/2020/03/7.2-Final.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

Institutional Distinctiveness The vision statement of the institute is "To evolve as an institute that will produce eminent graduate engineers with social sensitivity". This institute is started twenty years ago by founder Late Shri. P. N. Dharkar with the vision as social development of rural area. While starting the institute in this rural area like Karjat before 20 years founder of this institute decided to give the priority for the education of the students in this area. It has been observed that number of students taking technical education like engineering is increasing every year from last twenty years. Students are encouraged to participate in extra-curricular and Co-curricular activities. Students gets sensitized to social issues and holistic development through extension and outreach programmes/activities conducted for community nearby Karjat, District Raigad. In this process, an innovative approach of teaching-learning of technical subjects of the latest development is adopted and implemented. Students have taken active part in various technical competitions though institute. The continuous evaluation system is followed for assessing the performance of student in each course. Attainment levels are decided by the institute in achieving Course Outcomes, Program Objectives and Program Educational Objectives. The students undergo internship and take field/in-house project related to their area of interest. Good communication skill becomes a major and important aspect in the program of global business. Special care has been taken to build a language lab. The art of communication in technical English which has become an important aspect is taught by good faculty with international approach. It covers both oral and written communication along-with personality development are taught in a friendly way or that students are mentally and physically prepared for any kind of job in the international market. In addition to this special training programs on Soft-skill, Aptitude Training and Group Discussion are conducted through external agencies. E-learning resource are made available through digital section of library. Taking care of need of future some courses are taught through Google Classroom and Moodle. It has been observed that students are more eager to learn the subject through LMS.

Provide the weblink of the institution

<https://kgce.edu.in/wp-content/uploads/2020/03/7.3-Final.pdf>

8.Future Plans of Actions for Next Academic Year

- To organize orientation/induction program for newly admitted first year students (Fresher's) and their parents.
- To conduct external and internal Academic and Administrative Audit (AAA) of the institute.
- To continue the practice of organizing value addition, additional innovative guest lectures and carrier oriented training programmes.
- To identify the best practices to be followed.
- To provide financial assistance in the form of registration fee to the faculty for participation in conferences/seminars/workshops/FDP etc.
- To enhance social compatibility of the students by giving better opportunity of social interaction through activities/programmes of NSS.