

# ANNUAL QUALITY ASSURANCE REPORT

2019 – 2020



**Government College of Engineering Vidyanagar, Karad**

Dist. Satara, Maharashtra(India) – 415124

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## Part – A

### AQAR for the year: 2019- 2020

<b>1. Details of the Institution</b>					
<b>Name of the Institution</b>			Government College of Engineering Karad		
<b>Address</b>			Vidyanagar, Karad , Dist. Satara		
<b>City/Town</b>			Karad, Dist. Satara		
<b>State</b>			Maharashtra		
<b>Pin Code</b>			415124		
<b>Institution e-mail address</b>			<a href="mailto:principal@gcekarad.ac.in">principal@gcekarad.ac.in</a>		
<b>Contact Nos.</b>			91-2164- 272415(P), 271713		
<b>Name of the Head of the Institution</b>			Dr. A. T. Pise		
<b>Tel. No. with STD Code</b>			91-2164- 272415(P), 271713, Fax: 91 2164 271713		
<b>Mobile</b>			9422526362		
<b>Does the Institution function from own campus</b>			Yes		
<b>2 . Institutional Status</b>					
<b>Autonomous Status (Provide date of Conformant of Autonomous Status)</b>			2015-16 (30/06/2016)		
<b>Type of Institution</b>			Co-education		
<b>Location</b>			Rural		
<b>Financial Status</b>			State Government		
<b>Name of the IQAC co-ordinator/Director</b>			Dr. U. V. Patil		
<b>IQAC e-mail address</b>			<a href="mailto:deanacad@gcekarad.ac.in">deanacad@gcekarad.ac.in</a>		
<b>Mobile no.</b>			9403090395		
<b>Registered Email</b>			<a href="mailto:principal@gcekarad.ac.in">principal@gcekarad.ac.in</a>		
<b>Alternate Email</b>			<a href="mailto:patil_uv@yahoo.com">patil_uv@yahoo.com</a> / <a href="mailto:deanacad@gcekarad.ac.in">deanacad@gcekarad.ac.in</a>		
<b>3. Website Address</b>					
<b>Web-link of the AQAR:(Previous Academic Year)</b>			<a href="http://gcekarad.ac.in/uploaded_files/AQAR_18-19_table_separateupdated_1615364159.pdf">http://gcekarad.ac.in/uploaded_files/AQAR_18-19_table_separateupdated_1615364159.pdf</a>		
<b>4. Whether Academic Calendar prepared during the year if yes, whether it is uploaded in the institutional website: Weblink</b>			Yes <a href="http://www.gcekarad.ac.in/uploaded_files/Academic_Calender_2019_20.pdf">http://www.gcekarad.ac.in/uploaded_files/Academic_Calender_2019_20.pdf</a>		
<b>5 . Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity	
NAAC is not done hence NBA cycles are reported.				Period From	Period To
				30/06/2016	30/06/2019
Branch	Course			NBA 1 Cycle	NBA 2 Cycle
Civil Engineering	UG			2007-2012	2015-30 June 2019

Mechanical			2007-2013	2015-30 June 2019
Elect			2007-2014	2015-30 June 2019
ENTC			NA	2015-30 June 2019
IT			NA	
Construction Management	PG			2015-30 June 2019
Structural Engineering				2015-30 June 2019
Heat Power Engineering				2015-30 June 2019
Production Engineering				2015-30 June 2019
Electrical Power System				2015-30 June 2019
<b>6 . Date of Establishment of IQAC</b>			<b>NAAC Letter dated 14<sup>th</sup> June 2016</b> First Meeting of IQAC is on 19 <sup>th</sup> Dec 2016	

<b>7 . Internal Quality Assurance System</b>				
Quality initiatives by IQAC during the year for promoting quality culture				
Item /Title of the quality initiative by IQAC				
1. Implementation and utilization of smart classroom 2. Initiative for IOT and AI/ML lab 3. Improvement in laboratory practices 4. Scope for project sponsorship for 6 months in industry 5. Participation of students in National level project competition				
<b>8 . Provide the list of Special Status conferred by Central/ State Government UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.</b>				
Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
<a href="http://gcekarad.ac.in/uploaded_files/19-20_RPS.MODROB_funding_1615356993.pdf">http://gcekarad.ac.in/uploaded_files/19-20_RPS.MODROB_funding_1615356993.pdf</a>				

<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	<b>Yes</b>
Upload latest notification of formation of IQAC	<a href="http://www.gcekarad.ac.in/uploaded_files/2019-2020_GCEK_IQAC_composition_1615034303.pdf">http://www.gcekarad.ac.in/uploaded_files/2019-2020_GCEK_IQAC_composition_1615034303.pdf</a>
<b>10. Number of IQAC meetings held during the year</b>	(2019-20 :- 4 meetings)
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	Institute facilitate and support for all activities
<b>12. Significant contributions made by IQAC during the current year (maximum five bullets)</b>	<ul style="list-style-type: none"> <li>• Implementation and utilization of smart classroom</li> <li>• Initiative for IOT and AI/ML lab</li> <li>• Improvement in laboratory practices</li> <li>• Scope for project sponsorship for 6 months in industry</li> </ul>

	<ul style="list-style-type: none"> <li>• Participation of students in National level project competition</li> </ul>
<b>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</b>	
<b>Plan of action</b>	<b>Achievements/ Outcomes</b>
Conduction of FDP/STTP in New trends in technology	FDPs- 20 and beneficiaries- 1402
Increasing the testing and consultancy	Total consultancy- Rs15,779,941
FDP attended by faculty in other institutions/organizations	FDPs- 33 and beneficiaries- 111
Patenting	Total filed - 21,Awarded - 3
Preparation of the Annual Quality Assurance Report (AQAR) to be submitted to Principal based on the quality parameters.	AQAR has been prepared for year 2018-19 and process of preparation of AQAR for 19-20 is done .
<b>14. Whether AQAR was placed before statutory body ?</b>	<b>No</b>
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	<b>No</b>
<b>16. Whether institutional data submitted to AISHE:</b>	<b>Yes</b>
Date of Submission	
<b>17. Does the Institution have Management Information System ?</b>	<b>Yes</b>
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The data of faculty/ courses assigned to faculty and corresponding registered students has been stored in Management Information System (MIS). All theory and practical examination marks are entered in MIS. MIS stores and presents the overall result to each student individually. Online feedback of course delivery from each faculty is taken from every student at the end of semester through MIS as well as Moodle. Effective governance will be ensured through the process of automation by implementing intranet and MIS/ERP software in all administrative and academic processes.

## Part – B

<b>Criteria I- Curricular Aspects</b>			
<b>1.1 Curriculum Design and Development</b>			
1.1.1 Program for which syllabus revision was carried out during the academic year			
Name of Program	Program Code	Program Specialization	Date of Revision
BTech	600519110	Civil Engineering	25/05/19
BTech	600529310	Electrical Engineering	25/05/2019(Academic Council 19-20)
BTech	600524610	Information Technology	07/02/2020
BTech	600561210	Mechanical Engineering	Second revision S.Y.B Tech (Mech) 01/07/2019 B. Tech Final Year (Industry mode) 01/07/2019
BTech	600537210	E & TC	26/04/2019
BTech	600524110	MCA	25/05/2019
MTech	600521010	Construction Management (Civil)	25/05/19
MTech	600521210	Structural Engineering (Civil)	25/05/19
MTech	600559610	Heat Power Engineering (Mechanical)	Second revision of M.Tech 01/07/2019
MTech	600560610	Production Engineering (Mechanical)	Second revision of M.Tech 01/07/2019
MTech	600529210	Power Systems (Electrical)	25/05/2019(Academic Council 19-20)
MTech	600524210	Computer Science and Engineering	Newly Introduced in 2019-20
MTech	600560110	Design Engineering	Newly Introduced in 2019-20
1.1.2 Programs/Courses focused on Employability/Entrepreneurship/Skill development during the academic year			
Program	Program Specialization	Date of Introduction	Course
BTech	All Specialization	CTP - 13 to 24 December 2019  Employability test- 27 to 31 August 2019	Corporate Training Program, Employability test, General Proficiency, AMCAT Test, Industrial Visits, Six month internship in Industry/Research Institute, Industry Expert Lectures
MTech	All Specialization		
Guest lecture/Expert lectures conducted by departments <a href="http://gcekarad.ac.in/uploaded_files/2019-20_guest-expert_lectures_1615357120.pdf">http://gcekarad.ac.in/uploaded_files/2019-20_guest-expert_lectures_1615357120.pdf</a>			
<b>1.2 Academic Flexibility</b>			
1.2.1 New Programs/Courses introduced during the academic year			
Program/Course	Program Specialization	Date of Introduction	
BTech	NIL		
MTech	NIL		
600524210	Computer Science and Engineering	2019	
600560110	Design Engineering	15/07/2019	
1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year .			
Name of programs adopting CBCS	Program Specialization	Date of implementation of CBCS/Elective Course System	

BTech	Civil Engineering	Open/Core electives/Interdisciplinary electives
BTech	Electrical Engineering	Open/Core electives/Interdisciplinary electives
BTech	Information Technology	Open/Core electives/Interdisciplinary electives
BTech	Mechanical Engineering	Open/Core electives/Interdisciplinary electives
BTech	E & TC	Open/Core electives/Interdisciplinary electives
BTech	MCA	Open/Core electives/Interdisciplinary electives
MTech	Construction Management (Civil)	Open/Core electives/Interdisciplinary electives
MTech	Structural Engineering (Civil)	Open/Core electives/Interdisciplinary electives
MTech	Heat Power Engineering (Mechanical)	Open/Core electives/Interdisciplinary electives
MTech	Production Engineering (Mechanical)	Open/Core electives/Interdisciplinary electives
MTech	Power Systems (Electrical)	Open/Core electives/Interdisciplinary electives
MTech	Computer Science and Engineering	Open/Core electives/Interdisciplinary electives
MTech	Design Engineering	

### 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
Professional Electives as mentioned on Institute website(B.Tech Mechanical)		B.Tech Mechanical
EL-1: ME1726-Operation Research	01/07/2019	22
EL-1: ME1746- Adv. IC Engines	01/07/2019	43
EL-2: ME1717-Ind. Automation & Robotics	01/07/2019	65
EL-3: ME1814-Casting & Welding Processes		08
EL-3: ME1844-Engg Economics & Financial Mangt	01/12/2019	53
MOOCs course for Industry Mode Students	01/12/2019	04
Professional Electives as mentioned on Institute website(Civil Forth year)		B.Tech Civil
1. Remote sensing	2019-20	13
ASA		55
2. Industrial waste water treatment		14
Advanced Design of concrete structures		34
3. Repairs and rehabilitation of structures		10
Advanced construction techniques		38
Professional Electives as mentioned on Institute website(Electrical)	2019-20	B.Tech Electrical
Ele-2-EE1823-Wind and Solar Power		46
Ele-3-EE1824-Power Plant Engineering		46
MOOC course For industry Mode Students		25
Open Electives as mentioned on Institute website OE621: Industrial Automation	01/12/2019	70 Students From T.Y/ B.Tech Civil, Electrical, IT, Electronics were enrolled
Open Electives as mentioned on Institute website(Electrical) OE631-Industrial Electrical System	2019-20	61 Students from T.Y B.Tech Civil, Mechanical, IT, Electronics were enrolled

#### 1.3.2 Field Projects / Internships under taken during the year

Project/Program Title	Program Specialization	No. of students enrolled for Field Projects / Internships
BTech	All Specialization	Civil- 114, Civil: - 19(Industry Mode) Mechanical-84 Electrical-151 E & TC-123 IT-255,16(Industry Mode) MCA :- 25 700+ students are registered on portal for internship Total offers - 82 Total - Research Projects:- 24
MTech	All Specialization	NIL

## 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 )

Students are required to give feedback for courses regarding the teaching process once in a semester. Online feedback of course delivery from each faculty is taken from every student at the end of semester through MIS as well as moodle. Some of the parameters included in a feedback form are lesson planning, course evaluation, coverage of course content, basic knowledge of a course, usage of audio-visual tools, etc. It mainly focuses on faculty/ instructor's performance in conducting a particular course. The purpose of the feedback questionnaire is to gather information on the learning experience, as well as students' responses to the course and the faculty. The questions reflect subjective perceptions of students on various aspects of the course and the faculty involved in the course. The information provided is useful for the faculty as well as to the higher authorities in the ongoing efforts to enhance the quality of education at the Institute. This data is analyzed to improve the course delivery, and thus to attain course/program outcomes. The feedback is treated as confidential. The responses of students is communicated to the concerned faculty through the Head of the Department. The course teachers whose performance indicators are low; they are counseled by Heads of respective departments.

## 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	Civil Engineering	60	Admission process is centrally managed by state govt.	73
BTech	Electrical Engineering	60		73
BTech	Information Technology	60		72
BTech	Mechanical Engineering	60		75
BTech	E & TC	60		72
BTech	MCA	30		30
MTech	Construction Management (Civil)	25		12
MTech	Structural Engineering (Civil)	25		20

MTech	Heat Power Engineering (Mechanical)	25		00
MTech	Production Engineering (Mechanical)	25		5
MTech	Power Systems (Electrical)	25		12
MTech	Computer Science and Engineering	18		01
MTech	Design Engineering	18		16

## 2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019-20	FE(all dept)-365 SE(all dept)-327 TE(all dept)-344 BE(all dept)-339	FY(all dept)-96 SY(all dept)-123 TY(MCA)-27	57 E & TC:- 03,Civil-05,Geology-01,App.Mech-04,Mech-13,Elect.-11,IT-10,MCA-04,Phy,chem,maths-6		57

## 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
E &TC: -03 Total- 57 E & TC:- 03,Civil-05,Geology-01,App.Mech-04,Mech-13,Elect.-11,IT-10,MCA-04,Phy,chem,maths-6	95% appr. LCD Projectors, Smart Board, Multi media system, Digital Pad, Webcam, Peripherals (Cisco webex platforms, computers, laptops, wi-fi etc)	100%	03 21 Digital Boards	01 Total- 11	100% NPTEL Video Lectures, Moodle, e-library facility, MOOCs / Swayam / NPTEL courses

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

Mentoring and counselling system is implemented for technical and overall student development for four year UG courses. Mentors are allotted in the first year for 20 student group. Respective Department allot mentors from second year onwards for the group of 20 to 25 students. They often meet students to ask their problems (both technical and personal) and monitor their performance. Faculty advisor meets the students frequently and discusses various issues including class room lectures, laboratory performances, participation of seminar / conferences and technical event, any academic difficulty faced and career development. Thus, they try to resolve the problems which students face during their graduation studies.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
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(FE to BE) BTech-1375 (FY-SY) Mtech-162 (FY- TY) MCA-84	Regular - 57 Contractual, Adjunct and Visiting – 64	Only with regular staff 1:24 With all staff 1:12
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## 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
UG – 118 PG - 10	UG- 57 PG- 00	UG – 61 PG- 00	02	19

### 2.4.2 – Honors and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognized 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
2019-20	Dr.Y.M.Ghugal (applied mech)	Professor	1.Recipient of outstanding Reviewer Award from Elsevier Publisher, UK., 2019 2. Fellow of Institution of Engineers (India)
2019-20	Dr.V.S.Patil(maths)	Associate Professor	Project Evaluator for Interdisciplinary Internship 'Ideas for New Normal', G S F C University, Vadodara, India.

Awards and recognition received are available on the website with individual faculty resume.

## 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
BTech	All Courses	2019-20	Odd Sem: November 25 to December 7, 2019 Even Sem: April 28 to May 08, 2019	Odd Sem: December 21,2019
MTech	All Courses			Even Sem: May 30, 2020

### 2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Enquired in exam cell—no complaints		

Almost nil and which are of minor nature are taken care by board of examination and discipline committee constituted time to time under the head ship of Hon. Principal.

## 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 web link)

YES. Process of evaluation of outcome and mapping to PEO is discussed in IQAC and it will be finalized with due corrections if any into the academic council. With the corrections if any suggested by academic council members will be implemented in next academic year.

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
600519110	BTech	Civil Engineering	67	67	100
600529310	BTech	Electrical Engineering	71	71	100
600524610	BTech	Information Technology	64	64	100
600561210	BTech	Mechanical Engineering	65	65	100
600537210	BTech	E & TC	69	69	100
600524110	BTech	MCA	26	26	100
600521010	MTech	Construction Management (Civil)	24	21	87.50
600521210	MTech	Structural Engineering (Civil)	21	20	95.24
600559610	MTech	Heat Power Engineering (Mechanical)	21	20	95.24
600560610	MTech	Production Engineering (Mechanical)	09	01	11.11
600529210	MTech	Power Systems (Electrical)	18	16	88.89
600524210	MTech	Computer Science and Engineering	01	01	100
600560110	MTech	Design Engineering	16	16	100

## 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)

1. Course Exit Survey
2. Program exit survey
3. MIS Feedback
4. Moodle Feedback
5. Complaint redressed system

(Data Available with department and dean Academics)

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

#### Yes (TEQIP + Institute Funding )

Name of the teacher getting seed money

Dr. S. P. Deshmukh (one Proposal costing Rs. 3.25 lakh). Minor activity proposal from faculty is sanctioned by the Principal on case to case basis and only major proposals are discussed in the TEQIP funding committee.

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
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Dr. Y.M.Ghugal (applied mech)	1.Recipient of outstanding Reviewer Award from Elsevier Publisher, UK., 2019 2. Fellow of Institution of Engineers (India)	Elsevier Publisher Institution of Engineers (India)
Dr. S. J. Wagh	Fellow IETE	
Details regarding awards/fellowship/recognitions are available in the faculty resume on the departmental website.		

<b>3.2 – Resource Mobilization for Research</b>				
3.2.1 – Research funds sanctioned and received from various agencies, industry and other organizations				
Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	90 days	TEQIP	Max Rs 2000 per batch for 15 batches	Nil (Due to pandemic)
Major Projects	360 Days	TEQIP	Max 20,000 for Major Project (6 to 10 groups) & Max 50,000 for Dissertation, Max. Rs. (all aspiring & disserving students)	For major Projects Nil due to Pandemic @ Rs. 10,00,000 for Dissertation
<a href="http://gcekarad.ac.in/uploaded_files/19-20_seed_money_for_major_minor_1615357013.pdf">http://gcekarad.ac.in/uploaded_files/19-20_seed_money_for_major_minor_1615357013.pdf</a>				
3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years				
03 RPS / 14 Teachers 1 RPS – Dr. A. T. Pise, 2. RPS – Dr. R. K. Shrivastava ....(Sanctioned 23 Lakh) 3. RPS – Dr. S. P. Deshmukh ...(Sanctioned 24 Lakh)				

<b>3.3 – Innovation Ecosystem</b>		
3.3.1 – 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
MATLAB and its Applications in Civil Engineering & Science	Civil Engineering	27-30 April, 2020
Research Opportunities in Electrical Engineering	Electrical Engineering	7-16 May 2020
Machine & Deep Learning and its Applications in Engineering & Science	Information Technology	16 -20 May, 2020
Synergogy: An innovative Model for Knowledge Creation	Information Technology	2/12/2019-6/12/2019
Data Science Methodology	Information Technology	6/1/2020-10/1/2020
Design Thinking for Innovation	Information Technology	30/3/2020-31/3/2020
Digital Forensics and Security Research	Information Technology	25/4/2020 to 29/4/2020
Workshop on Python	E & TC	31st July 2019 to 01st August 2019
Workshop on Software Testing		27th September 2019 to 28th September 2019
Workshop on Basic Fundamental to Advanced		28th September 2019 to 02nd October 2019

MATLAB & Simulink		
Workshop on Robotics		22nd December 2019 to 23rd December 2019
One Day Industrial Training Program on Data Analytics TEQIP-III	MCA	13/07/2019
One Week FDP on "Bioinspired Algorithms in Engineering Optimization"	MCA	16th December to 21st December 2019
One Week FDP on "Machine Learning and Artificial Intelligence"	MCA	10th June to 14th June 2019

There is lot of data available so attached herewith the excel document

[http://gcekarad.ac.in/uploaded\\_files/STTP-FDP-workshop\\_conducted\\_by\\_GCEK\\_19-20\\_1615357234.pdf](http://gcekarad.ac.in/uploaded_files/STTP-FDP-workshop_conducted_by_GCEK_19-20_1615357234.pdf)

### 3.3.2 – 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
Details regarding awards/fellowship/recognitions are available in the faculty resume on the departmental website.				

### 3.3.3 – No. of Incubation center 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
Yes	Center for Innovation, Incubation and startups	GCEK		To facilitate, promote and nurture entrepreneurship	
	1. Expert Lecture on “3D Animation, Visualisation and Gaming Technology”				15/10/2019
	2. 3D Game and Virtual Reality Workshop				12/10/2019
	3. Basics of 3D Printing – Workshop by Rio 3D Printers				31/1/2020
	4. Integration of IOT and AR/VR – Workshop by PTC, Pune				27/1/2020

## 3.4 – Research Publications and Awards

### 3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded/No of students
Civil Engineering	1 submitted/03
Electrical Engineering	11
Information Technology	09
Mechanical Engineering	5 submitted/12
Applied Mechanics	05
Mathematics	02

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

Type	Department	Number of Publication	Average Impact Factor (if any)/Total Publications
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International Journal	Civil Engineering Mechanical Engineering Electrical Engineering E & TC Information Technology General Science MCA	09 11 13 01 00 01 00	Total-35
International Conference	Civil Engineering Mechanical Engineering Electrical Engineering E & TC Information Technology General Science MCA	02 02 03 00 03 00 03	Total-13
National Journal	Civil Engineering Mechanical Engineering Electrical Engineering E & TC Information Technology General Science MCA	02 00 01 00 00 00 01	Total-04
National Conference	Civil Engineering Mechanical Engineering Electrical Engineering E & TC Information Technology General Science MCA	05 03 02 01 04 02 03	Total-20

3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year	
Department	Number of Publication
Civil Engineering	Details for publications is as given in 3.4.2
Electrical Engineering	
Information Technology	01
Mechanical Engineering	<ul style="list-style-type: none"> <li>• Book chapter on ‘Connecting Rod’ in Design &amp; Development of heavy duty Diesel Engines, Energy, Environment &amp; Sustainability – Author Mr. P. R. Wani</li> <li>• Book chapter on ‘Critical fasteners, highly loaded Bolted Joints’ in Design &amp; Development of heavy duty Diesel Engines, Energy, Environment &amp; Sustainability – Author Mr. P. R. Wani</li> <li>• Book chapter on ‘Crankshaft’ in Design &amp; Development of heavy duty Diesel Engines, Energy, Environment &amp; Sustainability– Author Mr. P. R. Wani</li> <li>• One Book Chapter in Advances in Mechanical Engg, Springer Inc., Singapore –Author Dr. A. R. Acharya &amp; Sameer Gajghate</li> </ul>
No. of Publications: 14	

3.4.4 – Patents published/awarded during the year			
Patent Details	Patent status	Patent Number	Date of Award
FDML-Fitness: Fitness Function Derived Using Machine Learning and Deep Learning, Prof. N. B. Chaphalkar	Filed	202041007977	
UC-Tool: Car Door Unlocking Mechanism Without Key Prof. N. B. Chaphalkar	Filed	202011007267	
A device for controlling microwave intensity 1. Anil R. Acharya 2. Ashok T. Pise 3. Hawaldar Shubham Sunil 4. Chavan Vipul Ganesh 5. Mali Bhushan Bhaskar 6. Biradar Vaishnavi Baswaraj 7. Patil Avdoot Anandrao 8. Bedre Rushikesh Sudhir 9. Shriram Hanuman Satish	Published	202021020690A	19/06/2020 (publication date)
Microwave stove for cooking in open atmosphere 1. Anil R. Acharya 2. Ashok T. Pise 3. Hawaldar Shubham Sunil 4. Chavan Vipul Ganesh 5. Mali Bhushan Bhaskar 6. Biradar Vaishnavi Baswaraj 7. Patil Avdoot Anandrao 8. Bedre Rushikesh Sudhir 9. Shriram Hanuman Satish	Published	202021020688A	19/06/2020 (publication date)
Artificial non-stick film on toilets, urinal and wash basins 1. Mr. Bhushan Bhaskar Mali 2. Dr. Sandeep A. Thorat 3. Mr. Rushikesh Sudhir Bedre 4. Miss Vaishnavi Baswaraj Biradar 5. Mr. Jay Pandurang Waghmode 6. Mr. Vipul Ganesh Chavan 7. Mr. Sushnat Hanumant Rao Patil 8. Mr. Milind Dattarey Killedar 9. Dr. Ganesh S. Jadhav	Published	202021004724	06/03/2020 (publication date)
Microwave water heater 1. Pise Ashok Tukaram 2. Acharya Anil Ramchandra 3. Hawaldar Shubham Sunil 4. Patil Avdoot Ananadrao 5. Shriram Hanuman Satish 6. Bajare Shivam Sanjay 7. Musmade Rutuja Rajendra	Published	202021020689 A	19/06/2020 (publication date)
<a href="http://gcekarad.ac.in/uploaded_files/19-20_PATENT_1615356975.pdf">http://gcekarad.ac.in/uploaded_files/19-20_PATENT_1615356975.pdf</a>			

3.4.5 – Bibliometric of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index					
Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citation excluding self-citation
	IEEE			GCEK	

<http://gcekarad.ac.in/DisplayPage.aspx?page=ciagam>  
[http://gcekarad.ac.in/uploaded\\_files/h\\_index\\_electrical\\_1615357198.pdf](http://gcekarad.ac.in/uploaded_files/h_index_electrical_1615357198.pdf)  
[http://gcekarad.ac.in/uploaded\\_files/Civil\\_citations\\_data\\_1615357163.pdf](http://gcekarad.ac.in/uploaded_files/Civil_citations_data_1615357163.pdf)

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science )

Name of Author	Title of journal	Year of publication	h- Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citation
				GCEK	

<http://gcekarad.ac.in/DisplayPage.aspx?page=ciagam>  
[http://gcekarad.ac.in/uploaded\\_files/h\\_index\\_electrical\\_1615357198.pdf](http://gcekarad.ac.in/uploaded_files/h_index_electrical_1615357198.pdf)  
[http://gcekarad.ac.in/uploaded\\_files/Civil\\_citations\\_data\\_1615357163.pdf](http://gcekarad.ac.in/uploaded_files/Civil_citations_data_1615357163.pdf)

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

Number of Faculty	International	National	State	Local
			-	-

Lot of data is available for every department so attached herewith the excel sheet link  
[http://gcekarad.ac.in/uploaded\\_files/2019-20\\_Conf\\_attended\\_faculty\\_1615357081.pdf](http://gcekarad.ac.in/uploaded_files/2019-20_Conf_attended_faculty_1615357081.pdf)

**3.5 – Consultancy**

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated ( amount in rupees )
Civil Engineering	Third Party Inspection of civil works undertaken by Vitta, Tasgaon, Khanapur, Karad Nagarparishad	Nagarparishad of Vitta, Tasgaon, Khanapur, Karad Central Railway, Satara Office	3.5 lacks each on an average 21240/-
Civil Engineering	Raj Path Infracon Pvt Ltd. Pune	Raj Path Infracon Pvt Ltd. Pune	10,620/-
		Shri Sunil Lad, Government Registered Contractor, Kolhapur	15,045/-
Civil Engineering	Soil Testing	Geotechnical Engineering Lab	442058/-
Civil Engineering	Proof Checking of Sewage Treatment Plant Design	DAS Offshore Pvt. Ltd.	150000/-
Electrical	King Catcher Champ(Solar Light TRAP)	Palvi Industry	5900
	Chaff Cutter Machine	KPT Sales & Services pvt ltd	5000
	40 KV rooftop solar system	Banvadi Grampanchayat	23600
Mechanical	10- June-2019:- Gym Equipments	Deejo Combines Kolhapur	Rs. 3641/-
	26-02-2020:-Sanitary napkin, Insanitiser	Satara Zilla Parishad (Education Department)	Rs. 3520/-

	3- March- 2019- Gym Equipments	Beacon Industries, Satara	RS. 2242/-
	20- July- 19:- Chaffcutter	Quality Steel works, Patan	Rs. 5000/-
	23-July-19:- Gym Equipments	Beacon Industires, Satara	Rs. 6726/-
	23- July-2019:- Gym Equipments	Sumit Sports, Pune	Rs. 6726/-
	23- July-2019:- Gym Equipments	Spavy Fitness Satara	Rs. 6726/-
	23- July-2019:- Gym Equipments	Dipesh Fabricators	Rs. 7080/-
	23- July-2019:- Gym Equipments	Deejo Combines Kolhapur	Rs. 6726/-
	22-Dec-2019:-Practical ATD Lab	Yashoda Technical Campus, Satara	Rs. 15340/-
MCA	Project Purchase consultancy	Zilla Parishad Satara	Rs.5,000
MCA	Pension Software Purchase Consultancy	Zilla Parishad Satara	Rs.5,000
MCA	GPF software purchase Consultancy	Zilla Parishad Satara	Rs.5000
MCA	Computer and Printer Purchase Consultancy	Zilla Parishad Satara	Rs.5000
MCA	Smart TV Purchase Consultancy	Zilla Parishad Satara	Ongoing
MCA	All-in-One Desktop computer purchase Consultancy	Zilla Parishad Satara	Rs.4000
MCA	All in one computer consultancy	Zilla Parishad Satara	Rs.9280
MCA	Laptop Purchase Consultancy	Zilla Parishad Satara	Rs.17,223
MCA	Desktop computer purchase Consultancy	Zilla Parishad Satara	Rs.4,000
MCA	Desktop computer purchase Consultancy	Zilla Parishad Satara	Ongoing
MCA	Desktop computer purchase Consultancy	Zilla Parishad Satara	Ongoing
Information Technology	02	Panchgani Giristhan Municipal Corporation	27,844/-

[http://gcekarad.ac.in/uploaded\\_files/19-20\\_Consultancy\\_1615356928.pdf](http://gcekarad.ac.in/uploaded_files/19-20_Consultancy_1615356928.pdf)

### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) department	Title of the program	Agency seeking /training	Revenue generated ( amount in rupees )	Number of trainees
Civil Engineering				
Electrical Engineering				
Information Technology	00	00	00	00
Mechanical Engineering	NIL			
E &Tc	00	00	00	00
MCA				

### 3.6 – Extension Activities



3.6.1 – Number of extension and outreach programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/NCC/Red cross/Youth Red Cross (YRC ) etc., during the year				
Title of the activities	Organizing unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities	
Blood Donation Camps	GCEK/NSS	10	NSS volunteers and FY/SY students	
Tree Plantation	GCEK/NSS	10	NSS volunteers and FY/SY students	
Cleanliness campaign	GCEK/NSS	10	NSS volunteers and FY/SY students	
Voter Registration Camp & Poster Presentation	GCEK/NSS	10	NSS volunteers and FY/SY students	
World NSS Day	GCEK/NSS	10	NSS volunteers and FY/SY students	
Plastic free campus	GCEK/NSS	10	NSS volunteers and FY/SY students	
Swachh Bharat Abhiyan	GCEK/NSS	10	NSS volunteers and FY/SY students	
3.6.2 – 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	
3.6.3 – Students participating in extension activities with Government Organizations, Non-Government Organizations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year				
Name of the scheme	Organizing unit/Agency /collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities

3.7 – Collaborations					
3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year					
Nature of activity/Particulars	Participant	Source of financial support	Duration/Grant Details		
AICTE	All Departments	AICTE			
RPS		RPS			
MODROB		MODROB	21,01,334.00		
UNNAT BHARAT		UNNAT BHARAT			
SWACH BHARAT		SWACH BHARAT			
STATE GRANTS		STATE GRANTS	16,40,61,700.00		
TEQIP		TEQIP	3,43,47,033.60		
<a href="http://gcekarad.ac.in/uploaded_files/19-20_RPS.MODROB_funding_1615356993.pdf">http://gcekarad.ac.in/uploaded_files/19-20_RPS.MODROB_funding_1615356993.pdf</a>					
3.7.2 – 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
Corporate Training Program,		Damsel Enterprise,	13 Dec 2019	24 Dec.2019	All department students

Employability test, Six month internship in Industry/Research Institute, Industry Expert Lectures		Ahswamedh Sapces Pune,Shareen Auto, Posit Source, pune, Principal Global Services, pune,Paranjpe, Dhoot,DAS	27 Aug 2019	31 Aug 2019	
3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year					
Organization	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs		
TELEMET, Jaipur	17/09/2019	Training on fundamentals tool of advance MATLAB and simulink	55		
Spartasoft Technology Solution	02/07/2019	Training on Recent trends in VLSI design technology using EDA simulation tools	69		
		Training on Practical Integrated Antennas- Designing, Analysis and Simulation	76		
Space Development Nexus-SDNx New Delhi	25/11/2019	Internship Program on Interstellar Telecommunication System, Model Rocketry and Drone Technology	61		
Rio 3D	10th Dec 2019	To Understand latest technology like 3D Printing. Students make industry ready in different domain.			
Red Hat India Private Limited	20th Dec 2019	Programs to promote Red Hat Products Expert Lectures on Red Hat Programs			
College of Engineering Pune and Govt. College of Engineering, Karad	7 <sup>th</sup> Day of July 2017 (Valid for 3 years)	Academic, students Career and research Co-operation between all their departments for implementation of TEQIP	All M. Tech Students		
Walchand College of Engineering Sangli and Govt. College of Engineering, Karad	12 <sup>th</sup> Day of August 2017 (Valid till March 2021 / or closer of TEQIP)	Academic, students Career and research Co-operation between all their departments for implementation of TEQIP	All M. Tech Students		
Veer mata Jijabai Technological Institute, (VJTI, Mumbai) and Govt. College of Engineering, Karad	1 <sup>st</sup> Day of Feb 2017 (valid for 3 years)	To promote and enhanced academic interaction, share and implement best practices for enhancing quality of teaching learning process, conduct FDP, Training program, provide internship opportunity to students, help in developing laboratories, reference material, laboratory manual	All students and faculties		

		etc.	
Krishna Institute of Medical Sciences “Deemed to be University”, Karad & Govt. College of Engineering, Karad	14 <sup>th</sup> Day of Dec, 2018 (Valid for 3 Years)	Organize Technical Competition, conferences, workshops seminars etc Develop Laboratories, research centers, internships etc	All students and faculties
Centre for Wind Energy Technology (C-WET) & SRRA Site owner for setting up Solar Radiation Resource Assessment (SRRA) station	13 <sup>th</sup> Day of May, 2011	To collect solar Radiation Data in Satara District	Teachers: 01 Lab Assist: 01 Peon:03 (in rotation)
Thinkcell learning Solutions Pvt. Ltd. (Formerly GATEFORUM Educational Services Pvt. Ltd. 409, 4 <sup>th</sup> Floor, Ashoka chambers, S. P. road, Secundarabad 500003 & Govt. College of Engineering, Karad	7 <sup>th</sup> day of August, 2019	Provide GATE Coaching & Study material	All Final Year B. Tech (Mech.) students
Deltiin India Tech Pvt.ltd	13/08/2020	Arranging training Programs, Workshops, certificate courses for students Industrial Training for faculties	150
Lean Campus Startups	09/08/2020	Lean Campus Startups is a new age Entrepreneurship and startup Support platform for todays students who want to gain meaningful opportunities in Startup Space.	60
Gyanteerth	15/09/2020	Arranging pre-placement training for students	108
CodeNautics	03/10/19	Internship on Data Analytics with Machine Learning Learning Latest Industrial Trends	300

[http://gcekarad.ac.in/uploaded\\_files/2019-20\\_MOU\\_1615357142.pdf](http://gcekarad.ac.in/uploaded_files/2019-20_MOU_1615357142.pdf)

<b>CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES</b>	
<b>4.1 – Physical Facilities</b>	
4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year	
Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
432270000	208598751
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	Newly Created		
Classrooms with Wi-Fi OR LAN	Newly Created		
Seminar halls with ICT facilities	Newly Created		
Digital Boards	Newly Added		
<b>4.2 – Library as a Learning Resource</b>			
4.2.1 – Library is automated {Integrated Library Management System (ILMS)}			
Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
SLIM 9.0 software	Fully	9.0	
4.2.2 – Library Services			
Library Service Type	Existing	Newly Added	Total
Books / Volumes	Existing		74120
National Print Journals	Existing		130
e-Journals	Existing		1694
e-Books	Existing		2510
Book Bank Facility (for SC / ST Students and OBC/EBC/OPEN Students)	Existing		Available Set of 6 books
Reading Hall Seating Capacity(Plus Periodical Section)	Existing		150
Reprographic Facility	Existing		Available
NPTEL Facility	Existing		Available
Library Working Hours	Existing		9.00 a.m. to 7.00 p.m.
Total Nodes / Computers with Networking Facility	Existing		50 Nodes
Digital library :	Existing		60 computers
IIT Bombay Library Membership	Existing		
Online Public Access Catalogue Facility (OPAC)Campus wide connectivity on intranet	Existing		
Wi-fi & structured network facility	Existing		
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. A. B. Chaudhari	MOODLE	E Material	30-10-2019
Prof. N. M. Mule	MOODLE	E Material	07-09-2019
Prof. N. S. Deokule	MOODLE	E Material	12-11-2019
Prof. K. R. Pawar	MOODLE	Youtube, E Material	15-11-2019

Prof. C. P. Garware	MOODLE	E Material	03-06-2020
Prof. A. V. Sathe	MOODLE	E Material	19-11-2020
Prof. J. A. Adamane	MOODLE	E Material	14-02-2020
Department	No of Faculty Completed Online Course Delivered on SWAYAM (Regular + Contract)		
Civil	12		
Mechanical	14		
Electrical	11		
ENTC	5		
IT	12		
MCA	4		
G.Science. Maths	6		

<b>4.3 – IT Infrastructure</b>								
4.3.1 – Technology Upgradation (overall)								
Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)
Existing	500	Data Center	1 GBPS	50		20	125	Internet leased lines of 1 GBPS
4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)								
1GBPS								
4.3.3 – Facility for e-content								
Name of the e-content development facility			Provide the link of the videos and media center and recording facility					
YouTube Lecture series by			NPTEL					
YouTube Lecture series by			NPTEL					
Moodle Facility URL (Locally Hosted on College Server)			<a href="http://117.239.185.161/moodle/">http://117.239.185.161/moodle/</a>					
Digital Library URL (Locally Hosted on College Server)			<a href="http://172.16.1.39:81/">http://172.16.1.39:81/</a>					

<b>4.4 – Maintenance of Campus Infrastructure</b>			
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
Budget expenditure details for the institute are given in the following link <a href="http://gcekarad.ac.in/uploaded_files/19-20_4.4.1_budget_expenditure_1615356897.pdf">http://gcekarad.ac.in/uploaded_files/19-20_4.4.1_budget_expenditure_1615356897.pdf</a>			
4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maxi mum 500 words) (information to be available in institutional Website)			
It is common practice to appoint housekeeping staff and sundry labors for casual repairs of buildings every year. Petty contractors are appointed for			

some of the works by calling quotations for the works. Usually, equipment is maintained through AMC with suppliers. However, if the equipment is need for calibration or repairs any service provider is consulted to set it right.

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

Financial Support	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Dr. Punjabrao Deshmukh Vastigruh Nirvah Bhatta ( DTE ) <b>General</b>	1405 (Total)	₹ 1,37,52,337 (Grand Total)
Financial Support from Other Sources	Rajarshi Chhatrapati Shahu Mahraj Shikshan Shulkh Shishyavrutti Yojna ( <b>EBC</b> )		
a) National	Government of India Post-Matric (Scholarship) <b>SC</b>		
b)International	Post matric scholarship <b>OBC, SBC, VJNT</b>		
	Tuition fees and Examination fees to <b>OBC, SBC, VJNT</b>		
	Vocational Education Fee Reimbursement		

#### 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
Personal Counselling and Mentoring	Once/twice in a month per department	All the students	GCEK
Remedial coaching	As per students request esp. for weak students per dept.	Respective dept. students	GCEK
The Dias Club	Dais Session-1, Session-2	100,40	GCEK
	THE DAIS CLUB WORKSHOP	100	
	The Dais Conclave	160	
Aerobics & Zumba Club	Daily Session of aerobics and Zumba, Guest lecture by Tasnim Syiad	60 Student, Ladies faculty	GCEK
Yoga club	Daily Session of Yoga, 2. GUEST LECTURE BY Dr. Vijaya Kadam	50+ faculty	GCEK
Electrochasers club	Workshop on Python Programming 31st Aug. - 01st Sept.19	75	GCEK
	Tech fest event at I.I.T.,Bombay 06th October 2019	17	
	Workshop on Robotics 22th Dec.2019 -23th Dec.2019	51	
	Workshop on 3D Augmented Reality 14th -15th March 20	51	
Contriver club	Embedded C programming workshop by Nibban Enterprises, Kolhapur	61 SY Btech E&TC	GCEK
Divine club	A cleaning program in flood affected area 4/09/2019 at Shirol, Dist- Kolhapur	1000 (Shirol town)	GCEK
	Corona Virus and eco-friendly holi awareness program at Zilla Parishad School, Govare Tal- Karad on 13/03/2020	58	
House of Arts Club	TECHNOART 05/09/2019	62 Faculty+students	

		(all Branch)	
	MADHUBANI WORKSHOP 12/09/2019	2 coordinators and 29 students (from each branch)	
	Art Exhibition 22/02/2020	coordinators and 50 students	
Attached herewith the link soft skill/technical skill trainings conducted for students <a href="http://gcekarad.ac.in/uploaded_files/19-20_soft_skills_training_to_students_1615357032.pdf">http://gcekarad.ac.in/uploaded_files/19-20_soft_skills_training_to_students_1615357032.pdf</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the 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
MOOCS				
GATE coaching Academy (Video lecture software & GATE material is provided)	E &TC :- 69 All dept. students	E &TC:- 69 All dept. students	E & TC :- 11 Total GATE qualified- 49	E &TC :- 11 Total students placed- 242
<a href="http://gcekarad.ac.in/uploaded_files/2019-20_GATE_qualified_1615357102.pdf">http://gcekarad.ac.in/uploaded_files/2019-20_GATE_qualified_1615357102.pdf</a>				
5.1.4 – Institutional mechanism for transparency, timely redress 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 redress	
0	0		0	

<b>5.2 – Student Progression</b>					
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
39		239			
5.2.2 – Student progression to higher education in percentage during the year					
Year	Number of students enrolling into higher education	Program graduated from	Department graduated from	Name of institution joined	Name of program admitted to
2019-20		B.Tech	Civil Engineering		
2019-20	01	B.Tech	Electrical Engineering		
2019-20		B.Tech	Information Technology		
2019-20		B.Tech	Mechanical Engineering		
2019-20	04	B.Tech	E & TC Engineering		

<a href="http://gcekarad.ac.in/uploaded_files/19-20_student_progression_to_higher_studies_1615357057.pdf">http://gcekarad.ac.in/uploaded_files/19-20_student_progression_to_higher_studies_1615357057.pdf</a>		
5.2.3 – Students qualifying in state/ national/ international level examinations during the year ( eg: NET/SET/SLET/GATE /TOFEL//GMAT/CAT/GRE Civil Services/State Government Services )		
Items	Number of students selected/ qualifying	
GATE	E&TC- 11 Total GATE qualified- 49	
CAT		
GRE		
<a href="http://gcekarad.ac.in/uploaded_files/2019-20_GATE_qualified_1615357102.pdf">http://gcekarad.ac.in/uploaded_files/2019-20_GATE_qualified_1615357102.pdf</a>		
5.2.4 – Sports and cultural activities / competitions organized at the institution level during the year		
Activity	Level	Number of Participants
	National	
Sports Carnival	Institute	982
Music Classical Solo, Group Song, Western Solo etc.	District, Central	

<b>5.3 – Student Participation and Activities</b>						
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
2019	Athletics	National	22	07 Classical Solo		Kedar Sohani
2019	Music	National		Sugam Solo		Piyusha Kulkarni
5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)						
The student’s representatives serve in almost all academic and administrative bodies of the college such as the departmental board of studies, departmental associations and various clubs, student’s council, Anti Ragging Cell, Anti sexual harassment cell, Placement, and Career Guidance Cell, NSS, Gymkhana Committee, Library committee, etc. Role of Student Representatives Disseminate the information from the college administration to all students. Organize technical, non-technical and social events. Conduct Quiz Competitions on current affairs. Organize programs in NSS. Arrange study tour and Environmental Studies field trip. To maintain conducive and anti-ragging ambience in hostel and college premises. Any additional information regarding Student Support and Progression, which the institution would like to include. List of associations and clubs at Govt. College of Engineering, Karad-CESA (Civil Engineering Students Association), MESA (Mechanical Engineering Students Association),EESA (Electrical Engineering Students Association),ETSA(E & TC Student Association), ITSA (Information Technology Students Association) and MCASA (Master of Computer Applications Students Association)						

<b>5.4 – Alumni Engagement</b>
5.4.1 – Whether the institution has registered Alumni Association?
Yes
Yes, the college has a registered Alumni association. The Alumni association contributes actively to the welfare of the institution. The alumni meeting is organized once / twice a year by all the departments. Illustrious and prominent alumni are invited to deliver special lectures, motivating the students to



go for higher education and to find the means for job opportunities. All the departments have the alumni as members of their BOS. Their valid suggestions are taken into consideration in designing and updating the curriculum.
5.4.2 – No. of registered Alumni :
2019- 2400
5.4.3 – Alumni contribution during the year (in Rupees) :
25000
5.4.4 – Meetings/activities organized by Alumni Association :
1 every year

## **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 overall progress and development of the college are headed by the Governing body followed by the Director, Registrar, the Deans and the HOD's looking after the various portfolios. The College Development Committee, Finance Committee, and the Academic Council are Intermediary but important bodies that mentor the Director in taking decisions regarding institutional development, financial issues and Academic related implementations, respectively. However, all major decisions are ratified by the Administrative Council.

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
Teaching and Learning	The classroom teaching is well supported by smart boards, and LCD projectors. The academic calendar is strictly followed and monitored for delivering course contents define by every course teacher in course delivery plan. Penalty based attendance system is followed. Opportunity for students to learn at other institutes of repute is provided through credit transfer scheme. There is scope for industry oriented projects for both UG and PG students. Moodle is effectively used for effective teaching–learning. The inputs are taken from learners through feedback every semester and are used to address the issues related to teaching learning. Remedial classes during the semester and summer term are conducted. The industrial and field visits, expert lectures for contents beyond syllabus are organized regularly.
Curriculum Development	Regular revamping of curriculum through involvement of academicians and industry personnel. The process is monitored at various levels within department and institute. Outcome based, choice-based and student centric policies are given more thrust in curriculum design. More focus on professional and open electives. Internal academic audits with intradepartmental auditors are regularly conducted twice a year. Total credits and academic requirements recommended by AICTE model curriculum are strictly adhered to for both UG and PG programmes. Students encouraged undergoing courses available on SWAYAM

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

E-governance area	Details
Planning and Development	MIS, Moodle
Administration	MIS
Finance and Accounts	Tally

Student Admission and Support	MIS
Examination	Moodle

<b>6.3 – Faculty Empowerment Strategies</b>						
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	
2019-20	Prof. (Mrs) K. S. Gharge ID: 717051824 Valid from 01-07-2019 to 30-06-2020	--	SAE INDIA (Membership) 1/17 Ceebros Arcade, 2nd Floor, 3rd Cross, Kasturba Nagar, Adyar, Chennai 600020		Rs. 1298/-	
2019-20	Dr. U. V. Pise ID: 7190510230 Valid from 01-06-2019 to 31-05-2020	--	SAE INDIA (Membership) 1/17 Ceebros Arcade, 2nd Floor, 3rd Cross, Kasturba Nagar, Adyar, Chennai 600020		Rs. 1298/-	
2019-20	Prof. B. A. Konnur Prof. L. L. Kumarwad Prof. Sushant H. Patil Prof. A. B. Landage	Twinning Activity at Rajkiya Engineering College, Azamgarh	--		TA/DA	
2019-20	Dr. A. T. Pise Prof. B. S. Patil Prof. B. A. Konnur Prof. V. B. Raka	“Executive Training Programme on Art of Living” at International Center Art of Living, Kanakapura Road, Bangalore. Under Twinning Activity organized by Govt. College of Engg, Jalgaon & Govt. College of Engg, Kalahandi, Orisa	--		Air fare / TA DA	
2019-20	Prof. V. B. Raka	One day Training on “AISHE survey 2019-20” organized by Chatrapati Shahu Institute of Business Education & Research (CSIBER) & Statistical cell, SU Kolkapur	--		Rs. 800=00	
6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non-teaching staff during the year						
Year	Title of the professional development programme organized for teaching staff	Title of the administrative training program organized for non-teaching staff	From date	To Date	Number of Participants (Teaching staff )	Number of Participants (non-teaching staff)
2019-20		A Three day workshop on	17-oct 2019	19-oct	--	2 Non-Teaching , 20

		Injection Molding Machine		2019		M. Tech & B. Tech Students
2019-20	One week FDP on “Advances & Practices in Power Generation Systems” organized by Mechanical Dept, GCE Karad under TEQIP-III	--	9th Dec, 2019	13th Dec, 2019	45	--
2019-20	One week FDP on “Computational Tools & Techniques: MATLAB ANSYS” organized by Mechanical Dept, GCE Karad under TEQIP-III	--	27th April 2020	01st May 2020	40	--
2019-20	One Week online FDP on “Outcome Based Education: A Step towards Excellence” Under Margdarshan Scheme of AICTE, New Delhi Organised by Govt. CoE, karad	--	11th May 2020	15th May 2020	4000	--
2019-20	One Week online FDP on “Applications of Finite Element Analysis (FEA) & CFD using Ansys” organized by Mechanical Dept, GCE Karad under TEQIP-III	--	13th June 2020	17th June 2020	2100	--

There is lot of data available so attached herewith the excel document

[http://gcekarad.ac.in/uploaded\\_files/STTP-FDP-workshop\\_conducted\\_by\\_GCEK\\_19-20\\_1615357234.pdf](http://gcekarad.ac.in/uploaded_files/STTP-FDP-workshop_conducted_by_GCEK_19-20_1615357234.pdf)

6.3.3 – No. of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs during the year

Title of the professional Development programme	Number of teachers who attended	From Date	To date	Duration
One week STTP on “Advanced Engineering Optimization Through Intelligent Techniques” Organized by Mechanical Dept, Sardar Vallabhbhai National Institute of Technology, Surat	Prof. (Mrs) M. H. Yadav	25th Nov 2019	29th Nov 2019	One Week

One week FDP on “Synergogy: An Innovative Model for Knowledge Creation” organized by IT Dept, GCE Karad & Rajkiya College of Engg, Azamgarh (UP) (under Twining activity of TEQIP-III)	Prof. (Mrs) S. S. Jadhav	2nd Dec 2019	6th Dec 2019	One Week
One week STTP on “Advanced Engineering Optimization Through Intelligent Techniques” Organized by Mechanical Dept, Sardar Vallabhbhai National Institute of Technology, Surat	Prof. (Mrs) M. H. Yadav	25th Nov 2019	29th Nov 2019	One Week
NPTEL Online certification Course on “effective Writing” offered by IIT, Roorkee	Prof. (Mrs) M. H. Yadav	Jan 2020	Feb 2020	4 Week
TEQIP online certification course on “Digital Transformation in Teaching Learning Process” offered by IIT, Mumbai	Dr. R. K. Shrivastava Dr. U. V. Pise Prof. (Mrs) M. H. Yadav Prof. (Mrs) S. S. Jadhav Prof. Sushant H. Patil	6th April 2020	22nd April 2020	Two Weeks
One week online FDP on “Nanotechnology & its Applications in Mechanical Engg” Organized by Mechanical Dept, K.D.K. College of Engineering,	Prof. V. B. Raka	25th June 2020	1st July 2020	One Week

Nagpur				
Three day online workshop on “Importance of Mathematics in science and Engineering” Organized by PES’s CoE, Phaltan	Prof. N. V. Sali	20th June 2020	22nd June 2020	3 Days
One week online FDP on “Research Opportunity in Advanced Manufacturing Processes” organized by Mechanical Dept, Bharati Vidyapeeth CoE, Pune	Prof. Sushant H. Patil	22nd June 2020	28th June 2020	One Week
“Internet of Things (IoT)” Organized by IIT Bombay	Dr. P. M. Joshi Prof. U. S. Patil	24 Feb 2020	28 Feb 2020	One Week
Advances and Practices in power generation systems	Prof. K. K. More Prof. S.A. Morkhade	09/12/2019	13/12/2019	One Week
“Digital Transformation in Teaching Learning Process”, Organized by IIT Bombay	Prof. K. K. More Prof. S.A. Morkhade	14/02/2020	06/03/2020	Two week FDP Online mode
“Digital Transformation in Teaching Learning Process”, Organized by IIT Bombay	Dr. S. K. Patil Prof. S. K. Mahindrakar	6th April 2020	22nd April 2020	Two week FDP Online mode
Computational Tools and Techniques: MATLAB ,ANSYS, Jointly organised by GCE,Karad and Rajkiya	Prof. K. K. More Prof. S.A. Morkhade	27/04/2020	01/05/2020	One Week FDP through Online mode

Engineering College, Azamgarh, UP				
Accreditation to Engineering & Professional Ethics, organized by GCE Nagpur	Dr. S. K. Patil	8th July 2020	12th July 2020	Online FDP

There is lot of data available so attached herewith the excel document

[http://gcekarad.ac.in/uploaded\\_files/STTP-FDP-workshop\\_conducted\\_by\\_GCEK\\_19-20\\_1615357234.pdf](http://gcekarad.ac.in/uploaded_files/STTP-FDP-workshop_conducted_by_GCEK_19-20_1615357234.pdf)

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

Teaching		Non-teaching		
Permanent	Full Time/Part Time	Permanent	Full Time/Part Time	
57	Full Time- 57, Visiting, Adjunct- 64	Class 2 – 02 Class 3 – 62 Class 4 - 37		

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Staff Welfare Fund	Staff Welfare Fund	Student Welfare Fund

Link is attached herewith

[http://gcekarad.ac.in/uploaded\\_files/EAP\\_plan\\_for\\_IQAC\\_1615357180.pdf](http://gcekarad.ac.in/uploaded_files/EAP_plan_for_IQAC_1615357180.pdf)

Approved AICTE AQIS application details are as follows :-

AQIS Application Id	AQIS Schemes	Faculty Id	Faculty Name	Academic Year
1-7124223851	RPS – Research Promotion Scheme	1-4195682031	Dr. Suhas Deshmukh	2019-20
1-6334020604	MODROB - Aspiring Institutions	1-3228184217	Dr. Sanjiv Wagh	2019-20

#### 6.4 – Financial Management and Resource Mobilization

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

Yes. The college has been appointing internal and external auditors annually. The external auditor is a statutory auditor. The internal auditor makes quarterly balance sheets. The statutory audit or carries out half-yearly and yearly audits. In addition to this for the grant related fund provided by the state government, a separate audit is carried out by the regional office of the Directorate of Technical Education and by “Audit General (AG)” of the state government.

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/ Grants received in Rs.	Purpose
Data will be available with Finance department		

6.4.3 – Total corpus fund generated

#### 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	Agency
Academic	Yes	University Affiliation Committee NBA expert committee		Yes	HOD
Administrative	Yes	External Auditor, TEQIP Auditor, University Affiliation Committee NBA expert committee		Yes	Director and Registrar
6.5.2 – Activities and support from the Parent – Teacher Association (at least three)					
1. During First Year Students Induction Program, Parents are invited and addressed in orientation session.2. Parent-Teacher Meet is conducted each year and feedback from parents is collected.3. Parents are invited on Graduation Day Function.					
6.5.3 – Development programmes for support staff (at least three ) Reports are available with department. Support staff is deputed for training program through TEQIP					
6.5.4 – Post Accreditation initiative(s) (mention at least three )					
6.5.5 – Internal Quality Assurance System Details					
a) Submission of Data for AISHE portal		YES (All India Survey for Higher Education, MHRD)			
b) Participation in NIRF		Yes			
c) ISO certification		No			
d) NBA or any other quality audit		Yes			
6.5.6 – Number of Quality Initiatives undertaken during the year					
Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019-20	Data will be available at IQAC Cell				(Refer point 6.2.2,6.3.3 into the report)

## **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 program	Period from	Period To	Number of Participants(Male, Female)
GUEST LECTURE BY Dr.Vijya Kadam	6th October 2019	6th October 2019	50 Students , Faculty
Daily Session of Yoga	4th Feb2020	4th Feb2020	50 Students , Faculty
Daily Session of aerobics and Zumba	2/09/2019	2/11/2019	50 Students , Faculty
CAKE Making Workshop	10th Feb 2020		50 Students , Ladies Faculty

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

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

The institute has implemented solar technology for generating alternate nonconventional sources of electricity of 100K Wh proposal send to MEDA which will be connected to the Electricity board grid. All hostels are with Solar water heating system. Wind Mill for 1 KW on PG building Solar roof Top .

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Staff- 02, Students- 02
Provision for lift	Yes	Students fess concession

Ramp/Rails	Yes	
Scribes for examination	Yes	

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

7.1.5 – Human Values and Professional Ethics		
Title	Date of publication	Follow up (max 100 words)
Chapter 16. Discipline and Conduct		Any act of misconduct by any stakeholder of the institute is considered violating institute ethical and professional culture, and is subjected to disciplinary action. Such cases have to face an investigation or enquiry and the action taken by the Disciplinary committee is recorded and implemented. A few cases related to unethical practices in examinations and student misbehavior have been handled by the relevant committee and action taken is documented.

7.1.6 – Activities conducted for promotion of universal Values and Ethics			
Activity	Duration From	Duration To	Number of participants
The courses for ethics and human values are conducted in TEQIP activities. In the curriculum a new course on “Values and Ethics for Engineers” has been added and it’s a compulsory course to students.			
7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)			
<ol style="list-style-type: none"> <li>1. The rich vegetation within the campus facilitates a lower temperature (3-4°C) in the campus as compared to the external campus temperature.</li> <li>2. The campus is well protected and is a home to various domesticated animals, rabbits, birds of various species and reptiles thus exhibiting balance in the ecosystem.</li> <li>3. Use of Plastic is strictly banned in the campus.</li> <li>4. Solar Lighting on the streets within the campus is implemented.</li> <li>5. The college caters to accommodate approximately 765 students in 254 rooms distributed over 5 hostels, about 30 families of the faculty/staff staying in staff quarters which are exclusively maintained by the college.</li> <li>6. Institute developed Eco-friendly and energy efficient campus by implementing Rain water harvesting, Recycling of resources, Solar roof tops for major buildings,</li> <li>7. Waste to energy, Biogas plants, Sewage treatment plant (STP), etc.</li> </ol>			

7.2 – Best Practices
7.2.1 – Describe at least two institutional best practices
<ol style="list-style-type: none"> <li>1. Implementation and utilization of smart classroom</li> <li>2. Initiative for IOT and AI/ML lab</li> <li>3. Improvement in laboratory practices</li> <li>4. Scope for project sponsorship for 6 months in industry</li> <li>5. Participation of students in National level project competition</li> </ol>
Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
The file is uploaded for best practices on the institute website.



**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

1. Research and consultancy
2. Patenting
3. Selection of students in UPSC/MPSE
4. Increase in placement in last 3 years with good package to students

Provide the web-link of the institution

**8 .Future Plans of Actions for Next Academic Year**

1. Revamping of curricula to suit CBCS
2. Increasing the collaborative projects with renowned industries, institutions
3. Increasing the patenting and initiating the startups
4. Providing E-learning management system for evaluation, assessment and monitoring
5. Increasing the quality publications and international patenting
6. Bringing center of excellence in Agro Industries