

# ANNUAL QUALITY ASSURANCE REPORT

2017 –2018



**Government College of Engineering Vidyanagar, Karad**

Dist. Satara, Maharashtra(India) – 415124

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## Part – A

### AQAR for the year: 2017- 2018

1. Details of the Institution					
Name of the Institution		Government College of Engineering Karad			
Address		Vidyanagar, Karad , Dist. Satara			
City/Town		Karad, Dist. Satara			
State		Maharashtra			
PinCode		415124			
Institution e-mail address		<a href="mailto:principal@gcekarad.ac.in">principal@gcekarad.ac.in</a>			
Contact Nos.		91-2164- 272415(P), 271713			
Name of the Head of the Institution		Dr. A. T. Pise			
Tel. No. with STDC Code		91-2164- 272415(P), 271713, Fax: 91 2164 271713			
Mobile		9422526362			
Does the Institution function from own campus		Yes			
2 . Institutional Status					
Autonomous Status (Provide date of Conformant of Autonomous Status)		2015-16 (30/06/2016)			
Type of Institution		Co-education			
Location		Rural			
Financial Status		State Government			
Name of the IQAC co-ordinator/Director		Dr. U. V. Patil			
IQAC e-mail address		<a href="mailto:deanacad@gcekarad.ac.in">deanacad@gcekarad.ac.in</a>			
Mobile no.		9403090395			
Registered Email		<a href="mailto:principal@gcekarad.ac.in">principal@gcekarad.ac.in</a>			
Alternate Email		<a href="mailto:patil_uv@yahoo.com">patil_uv@yahoo.com</a> / <a href="mailto:deanacad@gcekarad.ac.in">deanacad@gcekarad.ac.in</a>			
3. Website Address					
Web-link of the AQAR:(Previous Academic Year)					
4. Whether Academic Calendar prepared during the year		Yes			
if yes, whether it is uploaded in the institutional website: Weblink		<a href="http://www.gcekarad.ac.in/uploaded_files/Academic_Calender_2017-18_for_Sem-I_&amp;_II_Autonomous_1613993075.pdf">http://www.gcekarad.ac.in/uploaded_files/Academic_Calender_2017-18_for_Sem-I_ &amp; II Autonomous 1613993075.pdf</a>			
5 . Accreditation Details					
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.Revamping of curriculum and syllabus 2.Research, Development and consultancy 3. FDP/STTP conduction and deputation 4. Networking and Initiative for data canter 5. Center of excellence 6.Initiative for students training to enhance the employability				
<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/17-18_RPS,MODROB_funding_1615312305.pdf">http://gcekarad.ac.in/uploaded_files/17-18_RPS,MODROB_funding_1615312305.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/2017-2018_GCEK_IQAC_composition_1615034340.pdf">http://www.gcekarad.ac.in/uploaded_files/2017-2018_GCEK_IQAC_composition_1615034340.pdf</a>
<b>10. Number of IQAC meetings held during theyear</b>	(2016-17 :- 6 meetings) (2017-18 :- 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 ofthe 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>• Upgradation of leased line from 100MBPS to 300MBPS and Bandwidth management and threat management software (cyberoam)</li> <li>• Implementation of data center and computing facility worth of 1.5crore</li> <li>• Framing reforms in academics and examination system by</li> </ul>

	<p>implementing MIS</p> <ul style="list-style-type: none"> <li>• Evaluation of training need analysis of students for better employment</li> <li>• Training on Patent filing and quality publications</li> <li>• Conduction of FDP/STTP in New trends in technology</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>
Proposed to enhance Upgradation of leased line from 100MBPS to 300MBPS and purchase of Bandwidth management and threat management software (cyberoam)	Purchasing and installation of cyberoam management software is done successfully and deployed for usage. 100MBPS Bandwidth is distributed to all department around 600 users
Implementation of data center and computing facility worth of 1.5crore	Installation of all data center component is performed and it is in operation. Students are getting computing facility and supported for online resources
Conduction of FDP/STTP in New trends in technology	Nine FDPs are conducted and 666 participants were present
Preparation of the Annual Quality Assurance Report (AQAR) to be submitted to Principal based on the quality parameters.	AQAR format is downloaded but data collection was key issue hence not completed. IQAC coordinator is changed hence AQAR is not fully complete .
<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	18/03/2017 (Academic Council 17-18)
BTech	600529310	Electrical Engineering	18/03/2017 (Academic Council 17-18)
BTech	600524610	Information Technology	8/7/2017
BTech	600561210	Mechanical Engineering	Third Year B.Tech (15/07/2017)
BTech	600537210	E & TC	18/07/2017
BTech	600524110	MCA	09/09/2017
MTech	600521010	Construction Management (Civil)	18/03/2017 (Academic Council 17-18)
MTech	600521210	Structural Engineering (Civil)	18/03/2017 (Academic Council 17-18)
MTech	600559610	Heat Power Engineering (Mechanical)	18/03/2017 (Academic Council 17-18)
MTech	600560610	Production Engineering (Mechanical)	18/03/2017 (Academic Council 17-18)
MTech	600529210	Power Systems (Electrical)	18/03/2017 (Academic Council 17-18)
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		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/2017-18_guest-expert_lectures_1615312722.pdf">http://gcekarad.ac.in/uploaded_files/2017-18_guest-expert_lectures_1615312722.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	
1.2.2 Programs 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)	

### 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(Mechanical)		Mechanical
Elective1: Automobile Engg	15/07/2017	75 students of B.E (Mech)
Elective2: TQM (BE Mech, University syllabus)	01/12/2017	75 students of B.E (Mech)
Professional Electives as mentioned on Institute website(Electrical)		Electrical
Elective1-FACTS		72 students of B.E (Elect)
Elective2- Electrical maintenance and electrical energy audit.(University Pattern)		72 students of B.E (Elect)

#### 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- 70 Mechanical-72 Electrical-70 E &TC-72 IT-71 MCA- All TY (25) 700+ students are registered on portal for internship Total internships – 335 Mechanical- 67 industries,125 students Total - Research Projects:- 08
MTech	All Specialization	PG Civil-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	ProgrammeSpecialization	Number of seats available	Number of Application received	Students Enrolled
BTech	CivilEngineering	60	Admission process is centrally managed by state govt.	63
BTech	Electrical Engineering	60		62
BTech	Information Technology	60		63
BTech	Mechanical Engineering	60		60
BTech	E & TC	60		64
BTech	MCA	30		29
MTech	Construction Management (Civil)	25		22
MTech	Structural Engineering (Civil)	25		25
MTech	Heat Power Engineering (Mechanical)	25		22
MTech	Production Engineering (Mechanical)	25		11
MTech	Power Systems (Electrical)	25		24

### 2.2 – Catering to Student Diversity

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

Year	Number of studentsenrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachersavailable in the institution teaching only UG courses	Number of fulltime teachersavailable in the institutionteaching only PG courses	Number of teachers teaching both UG and PG courses
2017-18	FE(all dept)-312 SE(all dept)-349 TE(all dept)-366 BE(all dept)-385	FY(all dept)-104 SY(all dept)-76 TY(MCA)-24	56 E & TC:- 01,Civil-05,Geology-01,App.Mech-04,Mech-14,Elect.-11,IT-10,MCA-04,Phy,chem,maths-6		56

### 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 usingICT (LMS, e-	ICT Tools and resources	Number of ICT enabled	Number of smart classrooms	E-resources and techniques used

	Resources)	available	Classrooms		
E &TC:-01 Total-56 E & TC:- 01,Civil-05,Geology-01,App.Mech-04,Mech-14,Elect.-11,IT-10,MCA-04,Phy,chem,maths-6	70% appr.	70% appr. LCD Projectors, Multimedia system	00	00	80% appr. NPTEL Video Lectures, Moodle, e-library facility
<b>2.3.2 – Students mentoring system available in the institution? Give details. ( maximum 500 words)</b>					
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		
(FE to BE) BTech-1412 (FY-SY) Mtech- 180 (FY- TY) MCA- 83	Regular - 56 Contractual, Adjunct and Visiting – 57		Only with regular staff 1:25 With all staff 1:12.5		

<b>2.4 – Teacher Profile and Quality</b>				
<b>2.4.1 – Number of full time teachers appointed during the year</b>				
No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty WithPh. D
UG – 100 PG - 10	UG- 60 PG- 00	UG – 40 PG- 00	-	16
<b>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)</b>				
Year of Award	Name of full timeteachers receivingawards fromstate level,National level, International level	Designation	Name of the award, fellowship, received fromGovernment or recognized bodies	
2017-18	Dr. P. M. Khodke (State Level)	Principal	Best Teacher award by GoM	
2017-18	Dr.A.T.Pise	Professor	Taken charge as Principal	
2017-18	Dr.V.S.Patil	Associate Professor	Best Faculty Award-2018, GRABS Educational Charitable Trust, Chennai,India Fellow, Indian Academic Research Association, India.2017	
2017-18	Dr.A.R.Acharya	Associate Professor	Ph D Awarded	



2017-18	Dr.S.V.Patil	Associate Professor	Ph D Awarded
2017-18	Prof. A.A. Bhondwe	Assistant Professor	Coordinator ISRO-Indian Institute of remote sensing (IIRS)
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

Program Name	Program Code	Semester/ year	Last date of the last semester-end/ yearend examination	Date of declaration of results of semester end/ year-end examination
BTech	All Courses	2017-18	Odd Sem: 11 Dec. to 20 Dec.2017 Even Sem: April 30 to May 12, 2018	Odd Sem: December 26,2017 Even Sem: May 24, 2018
MTech	All Courses			

### 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

Program Code	Program Name	Program Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
600519110	BTech	CivilEngineering	73	67	91.78
600529310	BTech	Electrical Engineering	76	69	90.78
600524610	BTech	Information Technology	72	68	94.44
600561210	BTech	Mechanical Engineering	77	75	97.40
600537210	BTech	E & TC	64	62	96.87
600524110	BTech	MCA	28	28	100
600521010	MTech	Construction Management (Civil)	18	18	100
600521210	MTech	Structural Engineering (Civil)	16	16	100
600559610	MTech	Heat Power Engineering (Mechanical)	16	15	93.75

600560610	MTech	Production Engineering (Mechanical)	12	11	91.67
600529210	MTech	Power Systems (Electrical)	12	12	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 web link)

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

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
	Dr.V.S.Patil	Fellow, Indian Academic Research Association, India.2017		

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

### 3.2 – Resource Mobilization for Research

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	30,000
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)	14,00,000

[http://gcekarad.ac.in/uploaded\\_files/17-18\\_seed\\_money\\_for\\_major\\_minor\\_1615312361.pdf](http://gcekarad.ac.in/uploaded_files/17-18_seed_money_for_major_minor_1615312361.pdf)

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

01 RPS / 14 Teachers

1 RPS – Dr. A. T. Pise

### 3.3 – Innovation Ecosystem

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
Foundation skill in IT	Civil Engineering	21/09/2017 to 26/09/2017
Advance in Applied Mathematics to Engineering	Mathematics	11/12/2017 to 22/12/2017
Machine Learning Data Science using-Python and Programming	Information Technology	11/12/2017 to 15/12/2017
Analytics and Experimental Methods in Vibration	Mechanical Engineering	26/02/2018 to 02/03/2018
Internship-IoT and MLAI	E & TC	15 <sup>th</sup> May 2018 to 30 <sup>th</sup> May 2018
Internet of Things and Mechatronics, Hands on Training on Raspberry-PI	MCA	25/06/2018 to 30/06/2018
Two Days Industrial Training Program for Students on Python, Zeppelin and R TEQIP-III	MCA	2-3 September 2017
Amazon EWS	Information Technology	8/12/2017 to 11/12/2017
Intelligent Computing for Future Internet	Information Technology	19th to 20th jan.2018
Red Hat Certification Training	Information Technology	8/12/2017 to 18/12/2017

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

[http://gcekarad.ac.in/uploaded\\_files/STTP-FDP-workshop\\_conducted\\_by\\_GCEK\\_17-18\\_1615312957.pdf](http://gcekarad.ac.in/uploaded_files/STTP-FDP-workshop_conducted_by_GCEK_17-18_1615312957.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
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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 CIIS	Center for Innovation, Incubation and startups	MOU with Millennium minds an NGO working to promote Business and start-up activities in the institute		To facilitate, promote and nurture entrepreneurship	
	1.Expert talk on Building Vision for Startups, Linking purpose to the Business, Business model creation and Blue ocean strategy				23/8/2017
	2. Representation at National Start Up SUMMIT Organised By AICTE				15/10/2017
	3.Entrepreneurship Orientation and Incubation Program with Millennium minds				8/1/02018
	4. Satara Entrepreneur meet at Government College of engineering Karad				3/2/2018

<b>3.4 – Research Publications and Awards</b>			
<b>3.4.1 – Ph. Ds awarded during the year</b>			
Name of the Department		Number of PhD's Awarded/No of students	
Civil Engineering		01	
Electrical Engineering		11	
Information Technology		-	
Mechanical Engineering		08	
MCA		00	
<b>3.4.2 – Research Publications in the Journals notified on UGC website during the year</b>			
Type	Department	Number of Publication	Average Impact Factor (if any)/Total publications
International Journal	Civil Engineering	18	Total-45
	Mechanical Engineering	11	
	Electrical Engineering	14	
	E & TC	00	
	Information Technology	01	
	GScience	01	
	MCA	00	
International Conference	Civil Engineering	07	Total-32
	Mechanical Engineering	08	
	Electrical Engineering	05	
	E & TC	02	
	Information Technology	05	
	GScience	01	
	MCA	04	
National Journal	Civil Engineering	03	Total-05
	Mechanical Engineering	01	
	Electrical Engineering	00	
	E & TC	00	
	Information Technology	00	
	GScience	01	
	MCA	00	
National Conference	Civil Engineering	04	Total-23
	Mechanical Engineering	05	
	Electrical Engineering	05	
	E & TC	01	
	Information Technology	03	
	GScience	04	
	MCA	01	

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	Nil		
Mechanical Engineering	Book on Applied Numerical Methods, Nirali Pub. Pune by Dr. A. R. Acharya & Others. No. of Publications: 22		
3.4.4 – Patents published/awarded during the year			
Patent Details	Patent status	Patent Number	Date of Award
BLOOD WARNMERDr.S.P.Deshmukh.	Filed	Application no-2017210024	
Machine Health Monitoring SystemDr.S.P.Deshmukh	Filed	Application no-201721003774	
Multi DOF Manual Precision positioning Mechanism with Motion AmplificationDr.S.P.Deshmukh	Filed	Application no-201721034464A	
<a href="http://gcekarad.ac.in/uploaded_files/17-18_PATENT_1615312218.pdf">http://gcekarad.ac.in/uploaded_files/17-18_PATENT_1615312218.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
				GCEK	
<a href="http://gcekarad.ac.in/DisplayPage.aspx?page=ciagai">http://gcekarad.ac.in/DisplayPage.aspx?page=ciagai</a>					
<a href="http://gcekarad.ac.in/uploaded_files/h_index_electrical_1615312861.pdf">http://gcekarad.ac.in/uploaded_files/h_index_electrical_1615312861.pdf</a>					
<a href="http://gcekarad.ac.in/uploaded_files/Civil_citations_data_1615312775.pdf">http://gcekarad.ac.in/uploaded_files/Civil_citations_data_1615312775.pdf</a>					
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 citation excluding self-citation
				GCEK	
<a href="http://gcekarad.ac.in/DisplayPage.aspx?page=ciagai">http://gcekarad.ac.in/DisplayPage.aspx?page=ciagai</a>					
<a href="http://gcekarad.ac.in/uploaded_files/h_index_electrical_1615312861.pdf">http://gcekarad.ac.in/uploaded_files/h_index_electrical_1615312861.pdf</a>					
<a href="http://gcekarad.ac.in/uploaded_files/Civil_citations_data_1615312775.pdf">http://gcekarad.ac.in/uploaded_files/Civil_citations_data_1615312775.pdf</a>					

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				
<a href="http://gcekarad.ac.in/uploaded_files/2017-18_Conf_attended_faculty_1615312658.pdf">http://gcekarad.ac.in/uploaded_files/2017-18_Conf_attended_faculty_1615312658.pdf</a>				

<b>3.5 – Consultancy</b>				
3.5.1 – Revenue generated from Consultancy during the year				
Name of the Consultant department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated ( amount in rupees )	
Civil Engineering	Environmental Engineering	Nagar ParishadKarad(client name)	21,36,817	
	Geotechnical Engineering	N.A.	8,16,263	
	Transportation Engineering	Nagar ParishadMangalveda,Solapur,testing and consultancy of 4villages	1,00,320	
	Geology	N.A.	6,33,135	
Electrical Engineering	Milking MachinePerformance testing	KPT Industry	10000	
	Kadegaon Nagarpanchayat	Kadegaon Nagar panchayat	25000	
Mechanical Engineering	VishvadhanAgrovetIndustries,P honix Solar system Pvt.Ltd. Etc.	Total count- 43	126941	
Applied mechanics		Total 86 companies	225144	
MCA	Project Purchase consultancy	ZillaParishadSatara	Rs.24,928	
MCA	Desktop Computer Purchase consultancy	ZillaParishadSatara	Rs.24,896	
<a href="http://gcekarad.ac.in/uploaded_files/17-18_Consultancy_1615312076.pdf">http://gcekarad.ac.in/uploaded_files/17-18_Consultancy_1615312076.pdf</a>				
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				
E & Tc				
MCA				

<b>3.6 – Extension Activities</b>			
3.6.1 – Number of extension and outreach programs conducted in collaboration with industry, community andNon- 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 DonationCamps	GCEK/NSS	06	NSS volunteers and FY/SY students 47
Tree Plantation	GCEK/NSS	06	NSS volunteers and FY/SY students
Cleanliness campaignat	GCEK/NSS	06	NSS volunteers and FY/SY students

YashwantraoChavan Samadhi karad				
Voter Registration Camp & Poster Presentation	GCEK/NSS	06	NSS volunteers and FY/SY students	
Jivanvidya Mission guidance	GCEK/NSS	06	NSS volunteers	
Ecofriendly Ganesh rally	GCEK/NSS	06	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 studentsBenefited	
3.6.3 – Students participating in extension activities with Government Organizations, Non-GovernmentOrganizations 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
UnnatBharatAbhiyan	GCEK	Visit to Jambhali village	01	05 PG students, Around 30 B.Tech students
		Village Kondhve from SataraTahasil is adopted under SansadAdarsh Gram Yogana(SAGY).		
		Visit to Dhamner, Tal. Koregaon		
		Visit to Bidal, Tal. Man		
		Visit to Nidhal, Tal.- Khatav		

### 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
AICTE	All Departments	AICTE	
RPS		RPS	15,81,794
MODROB		MODROB	2,55,000
UNNAT BHARAT		UNNAT BHARAT	4,50,000
SWACH BHARAT		SWACH BHARAT	
STATE GRANTS		STATE GRANTS	10,97,56,815
TEQIP		TEQIP	39,38,966

[http://gcekarad.ac.in/uploaded\\_files/17-18\\_RPS.MODROB\\_funding\\_1615312305.pdf](http://gcekarad.ac.in/uploaded_files/17-18_RPS.MODROB_funding_1615312305.pdf)

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, Employability test, Six month internship in Industry/Research		NPMotors,ShreeRefrigeration,Vijay Engineering Works,Karad,Projects and Motors Limited.(KPML), Larsen & Toubro LimitedHem motors,KirloskarOil Engines	18 June 2017	27th June 2017	All department students (aptitude test trainingof Globarena)

Institute, Industry Expert Lectures		Ltd.(KOEL),Crompton Greaves Ltd,Bharat Electronics Limited,LAXMI PUMPS PVT LTD KOLHAPUR,BHARAT FORGE PVT LTD SATARA ROAD,FINOLEX INDUSTRIES, RATNAGIRI			
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	
MOU with INDO German Tool Room,Aurangabad(IGTRA)		30 <sup>th</sup> Day of Dec, 2017	To jointly conduct the short term courses in the area of Tool Design, CAD /CAM / CAE, CNC Programming & Machining, Low Cost automation, Robotics / Mechatronics etc	All M.Tech (Prod) Students & Few Final Year B.Tech (Mech) students	
MOU with Globarena Technologies Private Limited		15 <sup>th</sup> Day of May, 2017	Providing pre-placement training to GCEK students who are preparing for placement in college campus,	No of students Benefited: 70	
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)	
Globarena Technologies Pvt. Ltd, East Block 605 to 612, 6 <sup>th</sup> floor Swarnajayanthi Complex, Ameerpet, Hyderabad & Govt. College of Engg, Karad		15 <sup>th</sup> Day of May, 2017	Providing pre-placement training to GCEK students who are preparing for placement in college campus,	No of students Benefited: 70	
Vastustruct, Engineers and Structural Consultants, Kolhapur and Govt. College of Engineering, Karad		7 <sup>th</sup> day of August 2017	For the Internal Interaction and Research Projects in Technical Education		
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	
VeermataJijabai Technological Institute, (VJTI, Mumbai)		1 <sup>st</sup> Day of Feb 2017 (valid for 3 years)	To promote and enhanced academic interaction, share and	All students and faculties	



and Govt. College of Engineering, Karad		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 etc.	
Experts Hub, Chennai	27/04/2018	Internship on IoT& MLAI	104
<a href="http://gcekarad.ac.in/uploaded_files/2017-18_MOU_1615312748.pdf">http://gcekarad.ac.in/uploaded_files/2017-18_MOU_1615312748.pdf</a>			
<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	
301810000		211260432	
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		Mechanical Dept. 2 Classrooms with LCD Facility	
Classrooms with Wi-Fi OR LAN		Mechanical Dept. 2 Classrooms with Wi-Fi and LAN Facility	
Seminar halls with ICT facilities		Mechanical Dept. 1 Golden Jubilee Seminar Hall with LCD, Wi-Fi, LAN, White Board, Black Board, AV System facility, Seating capacity 60 seats	
<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
SLIM 9.0 software		fully	9.0
4.2.2 – Library Services			
Library Service Type		Existing	Newly Added
Books / Volumes		Existing	57982
National Print Journals		Existing	65
e-Journals		Existing	2862
e-Books		Existing	2284
Book Bank Facility (for SC / ST Students and OBC/EBC/OPEN Students)		Existing	

Reading Hall Seating Capacity(Plus Periodical Section)	Existing		130
Reprographic Facility	Existing		
NPTEL Facility	Existing		
Library Working Hours	Existing		Time- 8.00 a.m. to 8.00p.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			
4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG - Pathshala CEC (UnderGraduate) 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
Department		No of Faculty Completed Online Course Delivered on SWAYAM (Regular+ Contract)	
Civil		5	
Mechanical		3	
Electrical		2	
ENTC		0	
IT		0	
MCA		0	
G.Science. Maths		0	

### 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)
Existing	150	Data Center-10	155MBPS	50		20	80	Internet leased lines of 155MBPS

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

155 Mbps

#### 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)	http://172.16.1.39:81/
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#### 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
--	--	--	--

Budget expenditure details for the institute are given in the following link

[http://gcekarad.ac.in/uploaded\\_files/17-18\\_4.4.1\\_budget\\_expenditure\\_1615312017.pdf](http://gcekarad.ac.in/uploaded_files/17-18_4.4.1_budget_expenditure_1615312017.pdf)

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. PunjabraoDeshmukhVastigruhNirvah Bhatta( DTE ) <b>General</b>		
Financial Support from Other Sources	RajarshiChhatrapatiShahuMahrajShikshanShulkhShishyavruttiYojna( <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>		

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/No.of activities involved
PersonalCounselling andMentoring		All the students	
Remedial coaching		Respective dept. students	
The Dias Club			10
Robo club			7
Yoga club			4

Electro chasers club			4
Contriever club			5
Divine club			2
SPIC MACAY			
Attached herewith the link soft skill/technical skill trainings conducted for students <a href="http://gcekarad.ac.in/uploaded_files/17-18_soft_skills_training_to_students_1615312481.pdf">http://gcekarad.ac.in/uploaded_files/17-18_soft_skills_training_to_students_1615312481.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: -73 All dept. students	E &TC: -73 All dept. students	E &TC: -02 Total GATE qualified-52	E &TC: -02 Total students placed- 151

[http://gcekarad.ac.in/uploaded\\_files/2017-18\\_GATE\\_qualified\\_1615312698.pdf](http://gcekarad.ac.in/uploaded_files/2017-18_GATE_qualified_1615312698.pdf)

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

## 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
56		158			

### 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
2017-18		B.Tech	Civil Engineering		
2017-18		B.Tech	Electrical Engineering		
2017-18		B.Tech	Information Technology		
2017-18		B.Tech	Mechanical Engineering		
2017-18	02	B.Tech	E & TC Engineering		

[http://gcekarad.ac.in/uploaded\\_files/17-18\\_student\\_progression\\_to\\_higher\\_studies\\_1615314914.pdf](http://gcekarad.ac.in/uploaded_files/17-18_student_progression_to_higher_studies_1615314914.pdf)

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	Total GATE qualified-52	
CAT		
GRE		
<a href="http://gcekarad.ac.in/uploaded_files/2017-18_GATE_qualified_1615312698.pdf">http://gcekarad.ac.in/uploaded_files/2017-18_GATE_qualified_1615312698.pdf</a>		
5.2.4 – Sports and cultural activities / competitions organized at the institution n level during the year		
Activity	Level	Number of Participants
16 different sports	National	129 students were participated in zonal and few of them also selected for Inter zonal tournament
ZEST 2017		31 students
VasantKridaMahotostav		01
SPUNK		01

### 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 forSports	Number of awards forCultural	Student ID number	Name of the student
2017-18	Chess (Men) team	National	1st place in Zonal Sports			OmkarKumbhar (TE Civil)
	Cricket (Men) team		4th place in Zonal Sports			
	Handball (Men)		4th place in Zonal Sports			
	Table-Tennis team for west zone SPUNK 2017					AjinkyaRajendraBhosale
	Zest 2018		1st place			SonalSangade

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 ambiance 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)

### 5.4 – Alumni Engagement

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 :
2017 – 1800
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 500words)

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 industryoriented 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 teachinglearning. 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 withindepartment 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 recommendedby AICTE model curriculum are strictly adhered to for both UG and PGprograms. Students encouragedundergoing 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

### 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
2017-18	Prof. V. B. Raka	One day workshop on “New Point Based Local Enquiry Committee (LIC) report format for University affiliated colleges” organized by KIT’s College of Engg, Kolhapur&Shivaji University, Kolhapur	--	Rs. 900=00
2017-18			NA	

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)
2017-18	Virtual lab		16/09/2017	16/09/2017	30	
2017-18	Machine Learning Data Science using–Python and Programming		11/12/2017	15/12/2017	45	
2017-18	Internet of Things and Mechatronics, Handson Training on Raspberry-PI		25/06/2018	30/06/2018	49	
2017-18	Developing Basic Competencies in Laboratory				120	

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

[http://gcekarad.ac.in/uploaded\\_files/STTP-FDP-workshop\\_conducted\\_by\\_GCEK\\_17-18\\_1615312957.pdf](http://gcekarad.ac.in/uploaded_files/STTP-FDP-workshop_conducted_by_GCEK_17-18_1615312957.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 program	Number of teachers who attended	From Date	To date	Duration
Three days workshop on “Process flow and Heat transfer Modeling” organized by Dhio Center of Excellence Bangalore	Prof. A. K. Jha	27 <sup>th</sup> July 2017	29 <sup>th</sup> July 2017	3 Days
Two days state level workshop on “Research Opportunity in Condition Monitoring and Fault Diagnosis of Machine Tools” organized by department of Mechanical Engineering JSPMs RajarshiShahu College of Engineering, Pune, under QIP program, SPPU, Pune	Prof. S. H. Patil	8 <sup>th</sup> Sep 2017	9 <sup>th</sup> Sep 2017	2 Days
One week “Faculty induction Program” organized by NPIU in collaboration with COE, Pune under TEQIP –III	Prof. M. H. Yadav Prof. Swati S. Jadav	27 <sup>th</sup> Nov 2017	2 <sup>nd</sup> Dec 2017	One week
One day workshop on “Teaching Methodologies in subject noise and vibration” organized by department of Mechanical Engineering under Lead college Activity, Shivaji University, Kolhapur, on 22 December 2017	Prof. M. H. Yadav	22 Dec 2017	22 Dec 2017	One day
Two weeks faculty development Programme on “Advances in Applied mathematics to Engineers” organized by Department of Mathematics, under TEQIP - III	Prof. G. S. Dhende Prof. V. B. Raka Prof. Swati S. Jadav Prof. S. H. Patil	11 th Dec 2017	22 <sup>nd</sup> Dec 2017	Two Weeks
Teaching Training Workshop for Student	Prof. S. K. Patil	15/09/2017	17/09/2017	3 Day



Induction, organized by IIT Varanasi	Prof. U. S. Patil			
Academic And Examination Reforms in Technical Institutes	Dr. U. V. Patil Prof. U. S. Patil	18/12/2017	22/12/2017	One week
Faculty Induction Program organized by COE Pune	Prof. K. K. More Prof. S.A. Morkhade Prof. P. R. Jadhav	27/11/2017	02/12/2017	One week
Advances in Applied Mathematics to Engineering organized by GCE Karad	Prof. S.A. Morkhade	11/12/2017	22/12/2017	Two week
Enhancing Information Technology Education organized by NIT Goa	Prof. P. R. Jadhav	11/12/2017	16/12/2017	One week

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

[http://gcekarad.ac.in/uploaded\\_files/STTP-FDP-workshop\\_conducted\\_by\\_GCEK\\_17-18\\_1615312957.pdf](http://gcekarad.ac.in/uploaded_files/STTP-FDP-workshop_conducted_by_GCEK_17-18_1615312957.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
56	Full Time- 56, Visiting, Adjunct- 57	Class 2 – 01 Class 3 – 59 Class 4 – 38	

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\\_1615312824.pdf](http://gcekarad.ac.in/uploaded_files/EAP_plan_for_IQAC_1615312824.pdf)

Approved AICTE AQIS application details are as follows :-

AQIS Application Id	AQIS Schemes	Faculty Id	Faculty Name	Academic Year
1-3567792500	FDP – Faculty Development Program	1-472181491	Dr. SuchitaHirde	2017-18
1-3561836172	RPS – Research Promotion Scheme	1-472079427	Dr. Ashok Pise	2017-18

## 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		

<b>6.5 – Internal Quality Assurance System</b>					
6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?					
Audit Type	External			Internal	
	Yes/No	Agency		Yes/No	Agency
Academic	Yes	UniversityAffiliationCommittee NBA expert committee		Yes	HOD
Administrative	Yes	ExternalAuditor, TEQIP Auditor, UniversityAffiliationCommittee 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 programs 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
2017-18	1)Upgradation of leased line 2) Need of data center 3) Need of full proof MIS for all sections 4)Training need analysis for enhancing skills 5) Motivation to promote Patent filing 6) Initiative to arrange FDP/STTP in				Discussed in meeting for point no 1,2,3 Point no 4,5,6- many workshops are conducted in house and faculties and support staff is deputed to undergo the training (Refer point 6.2.2,6.3.3 into the report)

	New trends in technology				
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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 program organized by the institution during the year)

Title of the program	Period from	Period To	Number of Participants(Male, Female)
Self Defense Workshop	18 <sup>th</sup> Sept.2017	18th September 2017	
Guest Lecture on “Challenges before women in Administration”	8th march 2018	8th march 2018	
“Mehandi and Nail Art Competition	9 march 2018	9 march 2018	
Drawing and Hand-Craft Exhibition	11th march 2018	11th march 2018	
Workshop on Zumke and Bangle Making	5th march 2018	5th march 2018	

#### 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 100KWh 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 Students fess concession
Provision for lift	Yes	
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.
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>

<b>7.2 – Best Practices</b>
7.2.1 – Describe at least two institutional best practices
<ol style="list-style-type: none"> <li>1. Research, Development and consultancy</li> <li>2.FDP/STTP conduction and deputation</li> <li>3. Networking and Initiative for data center</li> <li>4. Center of excellence</li> <li>5.Initiative for students training to enhance the employability</li> </ol>
<b>7.3 – Institutional Distinctiveness</b>
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
The institution is well known for testing/consultancy laboratory in Civil Engineering in Govt. and Non-Govt.Organizations. Quality publications in the institute and participation of faculties in FDP/STTP
<b>8 .Future Plans of Actions for Next Academic Year</b>
<ol style="list-style-type: none"> <li>1.Implementation of WiFi throughout the campus</li> <li>2.Flexibility in curriculum for industrial sponsorship</li> <li>3.Increasing the patent filing</li> <li>4.Development of laboratories with new advancement in technology</li> </ol>