ANNUAL QUALITY ASSURANCE REPORT

2018 – 2019

Government College of Engineering Vidyanagar, Karad
Dist. Satara, Maharashtra(India) – 415124
Tel.: 91-2164- 272415(P), 271713
Fax: 91- 2164- 271713
Web Site: http://www.gcekarad.ac.in

Email : principal@gcekarad.ac.in

Part – A

AQAR for the year: 2018- 2019

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**
Pin Code	**415124**
Institution e-mail address	**principal@gcekarad.ac.in**
Contact Nos.	**91-2164- 272415(P), 271713**
Name of the Head of the Institution	**Dr. A. T. Pise**
Tel. No. with STD 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	**deanacad@gcekarad.ac.in**
Mobile no.	**9403090395**
Registered Email	**principal@gcekarad.ac.in**
Alternate Email	**patil_uv@yahoo.com/deanacad@gcekarad.ac.in**

3. Website Address

Web-link of the AQAR:(Previous Academic Year)	http://gcekarad.ac.in/uploaded_files/AQAR_17-18_table_separateupdated_1615358760.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes, whether it is uploaded in the institutional website: Weblink	http://www.gcekarad.ac.in/uploaded_files/Academic_Calendar_2018-19.pdf

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				2007-2010	2015-30 June 2019

Elect					2007-2010	2015-30 June 2019
ENTC					NA	2015-30 June 2019
IT					NA	
Construction Management						2016-30 June 2019
Structural Engineering						2016-30 June 2019
Heat Power Engineering	PG					2016-30 June 2019
Production Engineering						2016-30 June 2019
Electrical Power System						2016-30 June 2019

6 . Date of Establishment of IQAC	**NAAC Letter dated 14th June 2016** First Meeting of IQAC is on 19th Dec 2016

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7 . Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture

Item /Title of the quality initiative by IQAC

1. Improvement in quality publication

2. Rise in consultancy testing

3. Wifi networking and MIS implementation

4. FDP/STTP conduction and deputation

5.Student club activities to improve the skills

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
http://gcekarad.ac.in/uploaded_files/18-19_RPS,MODROB_funding_1615352986.pdf				

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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	http://www.gcekarad.ac.in/uploaded_files/2018-2019_GCEK_IQAC_composition_1615034321.pdf
10. Number of IQAC meetings held during the year	(2018-19 :- 4 meetings)
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	Institute facilitate and support for all activities
12. Significant contributions made by IQAC during the current year (maximum five bullets)	• Improvement in quality publication • Rise in consultancy testing • Wifi networking and MIS implementation • FDP/STTP conduction and deputation • Student club activities to improve the skills

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year	
Plan of action	**Achievements/ Outcomes**
Development and application of quality benchmarks/parameters for the various academic and administrative activities of the institution.	Meeting are going on on various parameters and deciding the benchmarks for it.
Conduction of FDP/STTP in New trends in technology	FDPs- 13 and beneficiaries-1092
FDP attended by faculty in other institutions/organizations	Training Programs- 52, Faculty beneficiaries- 163
Increasing the testing and consultancy	Total consultancy- Rs- 11,764,719
Preparation of the Annual Quality Assurance Report (AQAR) to be submitted to Principal based on the quality parameters.	AQAR has been prepared for year 2017-18 and process of preparation of AQAR for 18-19 is done .
14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Date of Submission	
17. Does the Institution have Management Information System ?	Yes
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

Criteria I- Curricular Aspects			
1.1 Curriculum Design and Development			
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	18/05/18
BTech	600529310	Electrical Engineering	18/05/2018 (Academic Council 18-19)
BTech	600524610	Information Technology	04/04/2019
BTech	600561210	Mechanical Engineering	Final Year B.Tech (15/07/2018)
BTech	600537210	E & TC	29/11/2017
BTech	600524110	MCA	18/05/18
MTech	600521010	Construction Management (Civil)	18/05/18
MTech	600521210	Structural Engineering (Civil)	18/05/18
MTech	600559610	Heat Power Engineering (Mechanical)	F.Y.M. Tech 15/07/2018
MTech	600560610	Production Engineering (Mechanical)	F.Y.M. Tech 15/07/2018
MTech	600529210	Power Systems (Electrical)	18/05/2018(Academic Council 18-19)
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	13-24 Dec.2018 27-31 Aug.2018	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 http://gcekarad.ac.in/uploaded_files/2018-19_guest-expert_lectures_1615353113.pdf			

1.2Academic Flexibility		
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)	Open/Core electives/Interdisciplinary electives

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/Year	Number of Students Enrolled
Professional Electives as mentioned on Institute website (Civil)	Forth year 2018-19	(Civil)
1. Remote sensing		42
Advanced structural analysis		37
Advanced design of concrete structures		48
Advanced engineering geology		31
Repairs and rehab of structures		48
Advanced construction techniques		31
Professional Electives as mentioned on Institute website(Electrical)		(Electrical)
El-2:EE823Wind and Solar Power		80
El-3: EE834-Neural Network		34
El-3 :EE814 Restructured Power System		46
Professional Electives as mentioned on Institute website (Mechanical)		(Mechanical)
EL-1: TQM		18
El-1: Adv. IC Engines		26
EL-1: Design of Pressure Vessels	(01/07/2018)	33
EL-2: Ind. Automation & Robotics		63
EL-2: M/c Tool Design	(01/12/2018) for B.Tech (Mechanical)	14
OE621: Industrial Automation	(01/12/2018)	69 students from T.Y. B.Tech Civil, Electrical, IT, & E&TC branches were enrolled
OE631-Industrial Electrical System		60 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- 68 Mechanical-66 Electrical-70 E & TC-70 IT-69 700+ students are registered on portal for internship Research Projects:- 17
MTech	All Specialization	No Internship

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 Program	Program Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Civil Engineering	60	Admission process is centrally managed by state govt.

Reason for extra seats filled than the sanctioned Intake from GOI (J & K), Direct admitted at Second year | 65 |
BTech	Electrical Engineering	60		66
BTech	Information Technology	60		64
BTech	Mechanical Engineering	60		63
BTech	E & TC	60		63
BTech	MCA	30		26
MTech	Construction Management (Civil)	25		24
MTech	Structural Engineering (Civil)	25		25
MTech	Heat Power Engineering (Mechanical)	25		21
MTech	Production Engineering (Mechanical)	25		09
MTech	Power Systems (Electrical)	25		18

2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018-19	FE(all dept)-321 SE(all dept)-382 TE(all dept)-344 BE(all dept)-385	FY(all dept)-97 SY(all dept)-108 TY(MCA)-25	55 E & TC:- 01,Civil-05,Geology-01,App.Mech-04,Mech-13,Elect.-11,IT-	Required faculties as per rule. No of PG Course: ME 3, Civil 2, EE 1, IT 1. Professors: 07	55

| | | 10,MCA-04,Phy,chem,maths-6 | Associate Professors: 14
Assistant Professors: 05 | |

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), El earning 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:- 01,Civil-05,Geology-01,App.Mech-04,Mech-13,Elect.-11,IT-10,MCA-04,Phy,chem,maths-6	85% appr.	70% approx. LCD Projectors: 50, Smart Board= 22, Multimedia system,	02	22	85% appr. 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
(FE to BE) Btech-1432 (FY-SY) Mtech-205 (FY-TY) MCA-80	Regular - 55 Contractual, Adjunct and Visiting – 63	Only with regular staff 1:25 With all staff 1:12

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 **(Contractual Faculties)**	No. of faculty With Ph. D
UG – 100 PG - 10	UG- 55 PG- 00	UG – 45 PG- 00	63	15

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
2018-19	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)

			3. Received Best Paper Award for a paper "A New Higher Order Shear Deformation Theory for bending Analysis of Isotropic and Orthotropic Plates with Linear Thermal Loading". Authored by Sandhya K. Swamy and Ghugal, Y.M. Presented in *International Conference on Innovative Realms in Civil Engineering* (IRICE-2018), 24-25 January 2018. Organized by KDK College of Engineering and IE (I) Nagpur Local Centre, Nagpur.
2018-19	Dr.V.S.Patil(maths)	Associate Professor	1. District Liaison Officer-Satara District, MHT-CET 2018 2.Best Faculty Award - 2018, GRABS Educational Charitable Trust, Chennai, India 3. Best Researcher Award - 2018, Indian Academic Researchers Association, Tiruchirappalli.
2018-19	Dr. R. K. Shrivastava (National Level)	Professor in Mechanical	Academician Award
2018-19	Dr. S. H. Pawar	Associate Professor	Ph.D. Awarded
2018-19	Dr. S. K. Patil	Associate Professor	Ph.D. Awarded
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/ year end examination	Date of declaration of results of semester end/ year- end examination
BTech	All Courses	2018-19	Odd Sem: December 10 to 27, 2018 Even Sem: April 30 to May18, 20l9	Odd Sem: January 9-1-2019 Even Sem: May 28, 20l9
MTech	All Courses	2018-19		

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	Civil Engineering	79	78	98.73
600529310	BTech	Electrical Engineering	80	77	96.25
600524610	BTech	Information Technology	76	75	98.68
600561210	BTech	Mechanical Engineering	77	74	96.10
600537210	BTech	E & TC	73	70	95.89
600524110	BTech	MCA	25	25	100.00
600521010	MTech	Construction Management (Civil)	23	21	91.30
600521210	MTech	Structural Engineering (Civil)	26	24	92.31
600559610	MTech	Heat Power Engineering (Mechanical)	24	23	95.83
600560610	MTech	Production Engineering (Mechanical)	13	13	100
600529210	MTech	Power Systems (Electrical)	20	19	95.00

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

Dr. S. P. Deshmukh (One Proposal costing Rs 3.50 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
	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. Pise A.T.	FIE		Institute of Engineer India
	Dr. Kumathekar	FIE		Institute of Engineer India
	Dr.V.S.Patil(maths)			

	Prof.A.A.Bhondawe			
	Dr.P. M. Joshi and Prof.Uma Patil			
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/18-19_seed_money_for_major_minor_1615353005.pdf

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

03 RPS / 13 Teachers
1. RPS – Dr. A. T. Pise,
2. RPS – Dr. R. K. Shrivastava(Sanctioned 23 Lakhs)
3. RPS – Dr. Suhas Deshmukh (Sanctioned 19.5 Lakhs)

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
Augmented Reality & Virtual Reality	Information Technology	30th to 31st Mar. 2019
Android Development	Information Technology	9th to 10th Mar. 2019
Ethical Hacking & Digital Forensics	Information Technology	7th to 8thfeb. 2019
Advance Java Programming	Information Technology	30th to 31st Mar. 2019
Data Structures & Algorithms	Information Technology	9th Aug. 2018
IoM. IOT for Healthcare Application	Information Technology	17/12/2018 to 22/12/2018
Fundamentals and application of computational fluid dynamics	Mechanical Engineering	02/04/2019 to 06/04/2019
Internship-Data Science & Analytics	E & TC	25th Dec. 2018 to 29th Dec. 2018
Workshop on SQL		20th January 2019 to 21st January 2019
Internship on "Machine Learning and Artificial Intelligence"		17th April 2019 to 21st April 2019
Internship on "Internet of Thing"		24th May 2019 to 28th May 2019
Four Days Industrial Training Program for Students on Machine Learning and Android	MCA	18/8/2018- 19/8/2018 and 26/8/2018-27/8/2018
One Week STTP on "Enhancing Teaching Learning Process and Research Skills"	MCA	29th October 2018 to 2nd November 2018
Two Days Workshop for Students on " To enhance the knowledge and technical skills of students required in software industries"	MCA	23rd March 2018 to 24th March 2018.
One Day Industry Expert Lecture for Students on " Basic and advance study in an Embedded Studies	MCA	2nd April 2018
There is lot of data available so attached herewith the excel document http://gcekarad.ac.in/uploaded_files/STTP-FDP-workshop_conducted_by_GCEK_18-19_1615353254.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			
	1.Lecture on Innovation & Creativity by Dr. R. B. Kulkarni 2. Lecture on entrepreneurship By Namdeorao Jadhav			To facilitate, promote and nurture entrepreneurship	25/5/2018 10/7/2018

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 (data insufficient for awarded)
Civil Engineering	03
Electrical Engineering	11
Information Technology	09
Mechanical Engineering	12
Applied Mechanics	05
Mathematics	02
MCA	01

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
International Journal	Civil Engineering Mechanical Engineering Electrical Engineering E & TC Information Technology General Science MCA	15 18 09 00 01 00 00	Total-43
International Conference	Civil Engineering Mechanical Engineering Electrical Engineering E & TC Information Technology General Science MCA	05 04 05 01 05 01 02	Total-23
National Journal	Civil Engineering Mechanical Engineering Electrical Engineering E & TC Information Technology General Science MCA	02 01 00 00 01 00 00	Total-04
National	Civil Engineering Mechanical Engineering	03 06	Total-25

Conference	Electrical Engineering	04		
	E & TC	01		
	Information Technology	05		
	General Science	03		
	MCA	03		

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	01 book " Drives and Control" By Prof. S. K. Mahindrakar
Information Technology	Data not available
Mechanical Engineering	
MCA	03
Other Department	

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Sensor-Less XYZ Scanner for precision Application Dr.S.P.Deshmukh	Filed	Application no-201621027261A	
A Valed Opposed Piston Linear Compressor Dr.S.P.Deshmukh	Filed	Application no-201623007432	
System to measure strength of text based CAPTCHA Dr. A. M. Sapkal.	Filed	Application no. 934/MUM2013, CBR no. 3658	
VEC: Vehicle exhaust controller Prof. N. B. Chaphalkar	Filed	Application no-201821015632	
ICG-system : Intelligent garbage collection system Prof. N. B. Chaphalkar	Filed	Application no-01821029064	
A Mechanism to Conveniently Release Footrest in Vehicles Dr.S.P.Deshmukh	Filed	Application no-201621025659	
IBA-system: Intelligent biometric authentication system user can transfer the amount to registered account no Prof. N. B. Chaphalkar	Filed	Application no-201821029061	
ICG-system: Intelligent garbage collection system Prof. N. B. Chaphalkar	Filed	Application no-01821029064	
TBS-system: Third level biometric app security system Prof. N. B. Chaphalkar	Filed	Application no- 20181103464	
Continuous flow vermi-reactor for fast track urban solid waste treatment Prof. N. B. Chaphalkar	Filed	Application no- 201811034642	
WPC-tiles: Waste plastic convert into a colors tiles Prof. N. B. Chaphalkar	Filed	Application no-201821042787	
Itsc-system : Intelligent tire air indication, speed control system Prof. N. B. Chaphalkar	Filed	Application no-201821042800	
P-button: Panic button provides information through light, radio signal and other required signal Prof. N. B. Chaphalkar	Filed	Application no-201821042817	
At-air: Automatic tire air filed and air pressure display system	Filed	Application no-201821049322	

http://gcekarad.ac.in/uploaded_files/18-19_PATENT_1615352966.pdf

** Total 14 patents filed during academic year 2018-19

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=ciagak

http://gcekarad.ac.in/uploaded_files/h_index_electrical_1615353204.pdf

http://gcekarad.ac.in/uploaded_files/Civil_citations_data_1615353162.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=ciagak

http://gcekarad.ac.in/uploaded_files/h_index_electrical_1615353204.pdf

http://gcekarad.ac.in/uploaded_files/Civil_citations_data_1615353162.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/2018-19_Conf_attended_faculty_1615353073.pdf

3.5 – Consultancy			
3.5.1 – Revenue generated from Consultancy during the year			
Name of the Consultant(s) department	Name of faculty/consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Prof. B. A. Konnur	Highway Materials Testing at Transportation Engineering Laboratory	-
	Prof. S. V. Joshi	consultancy services to Karad, Vita and Tasgaon Nagar Parishad	4,00,000/-
	Prof. S. S. Yadav	Transportation Engineering Lab (Bitumen Testing)	5,00,000/-
	Prof. A. H. Kulkarni	Non-Government (Private) - Vestas Wind Technology Pvt. Ltd., Patan	20,000/-
Electrical Engineering	TPI of Straitening water supply scheme with turbine LT panel and starter	Nagarpalika Patan	47467
	TPI of Supply of Electrical Actuator , panel board for automation of ESR	Nagarpalika Karad	65290
	TPI of supply and installation of volves with installation	Nagarpalika Karad	69489
Information Technology	00	00	00
Mechanical Engineering	Prof. S. H. Patil	Shrikrushna Fabrication Nerle	3540

	Dr. S. P. Deshmukh	D. S. Engineering Pune	3540
	Prof. N. V. Sali/ Prof. K. S. Gharge	Nagarparishad Rahimatpur	15207
	Prof. D. V. Ghadge	Beacon Industries Satara	3540
E& TC	00	00	00
MCA	CCTV AMC Consultancy	Zilla Parishad Satara	Rs. 4,000
MCA	Video Conferencing Unit purchase Consultancy	Zilla Parishad Satara	Rs.4,000
MCA	CCTV unit purchase consultancy	Zilla Parishad Satara	Rs. 4,000
MCA	Desktop Computer Purchase onsultancy	Zilla Parishad Satara	Rs.5,000
MCA	Desktop Computer Purchase consultancy	Zilla Parishad Satara	Rs.4,000
MCA	Purchase of software system for Namuna 1 to 8 consultancy	Zilla Parishad Satara	Rs. 5,000
MCA	Structure cabling for ZP satara Administrative Building Consultancy	Zilla Parishad Satara	Rs.20,000
MCA	Arth Sulabh Pranali Consultancy	Zilla Parishad Satara	Rs.20,000
MCA	Laptop,Printer& networking equipment purchase for Marali study centre. Taluka patan.dist satara	Zilla Parishad Satara	Rs.50,000
MCA	LED,Screen,Speaker etc unit purchase consultancy	Zilla Parishad Satara	Rs.4,000
MCA	Project Purchase Consultancy	Zilla Parishad Satara	Rs.5000

http://gcekarad.ac.in/uploaded_files/18-19_Consultancy_1615352923.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				
Mechanical Engineering				

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	7	NSS volunteers and FY/SY students

Tree Plantation	GCEK/NSS	7	NSS volunteers and FY/SY students
Cleanliness campaign	GCEK/NSS	7	NSS volunteers and FY/SY students
Voter Registration Camp & Poster Presentation	GCEK/NSS	7	NSS volunteers and FY/SY students
World NSS Day	GCEK/NSS	7	NSS volunteers and FY/SY students
Plastic free campus	GCEK/NSS	7	NSS volunteers and FY/SY students
Swachh Bharat Abhiyan	GCEK/NSS	7	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
Unnat Bharat Abhiyan	GCEK	For cluster 4 villages under Unnat Bharat Abhiyan 1.Meeting with DPC 2. Visit to Dhamner village, Tal: Ko-regaon 3.Visit to Bidal Village Tal: Man and Nidhal village Tal: Khatav 4.Visit to Jambhali village Tal: Wai	UBA coordinators-01	03 PG students Around 30 BTech students
	GCEK			

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	
Hostel for Sc/ST		Hostel for Sc/ST	2 cr.
UNNAT BHARAT		UNNAT BHARAT	
SWACH BHARAT		SWACH BHARAT	
STATE GRANTS		STATE GRANTS	12,47,63,722.00
TEQIP		TEQIP	3,39,48,700.40

http://gcekarad.ac.in/uploaded_files/18-19_RPS,MODROB_funding_1615352986.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	Duration From	Duration To	Participant

			details			
Corporate Training Program, Employability test, Six month internship in Industry/Research Institute, Industry Expert Lectures				13 Dec.2018 27 Aug 2018	24 Dec.2018 31 Aug 2018	

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
Sparta soft Technology Solution	16/08/2018	Training on Recent trends in VLSI design technology using EDA simulation tools	70
Sparta soft Technology Solution	16/08/2018	Training on Practical Integrated Antennas- Designing, Analysis and Simulation	70
The rural, Pune and age matics, Dubai	24/12/2018	Internship on data science and analytics	28
Experts Hub, Chennai	03/05/2018	Internship on IoT	82
Krishna Institute of Medical Sciences Deemed University Karad	14 December 2018	1.Health information sharing for project and combined projects in IT and medicine. 2.Different surveys in medical science and IT 3. Organize blood donation and health check-up camps 4. Start consultancy, research and training for health related electronics and mechanical devices 5.Develop curriculum and course for mutually helpful contents	
iLeadership Tech Systems infinityX	17 January 2019	Seminar, Placement and Guest Lecture Academic projects Short term internships for students and faculties	
MOU with INDO German Tool Room, Aurangabad(IGTRA)	30th 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
College of Engineering Pune and Govt. College of Engineering, Karad	7th 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	12th 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	All M. Tech Students

	TEQIP		
Veermata Jijabai Technological Institute, (VJTI, Mumbai) and Govt. College of Engineering, Karad	1st 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 etc.	All students and faculties
Prygma Information System Pvt. Ltd	15/09/2018	Technology Training & Sharing, Internship	30(MCA)
Indexial Solutions Pune	27/05/ 2019	Internship on IoT, Machine Learning and Data Analytics	
Thinkcell Learning Solutions Pvt. Ltd.	19/06/2019	Training related to Gate exams	
http://gcekarad.ac.in/uploaded_files/2018-19_MOU_1615353139.pdf			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
360100000	256027430

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

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SLIM 9.0 software	Fully	9.0	

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
Books / Volumes	Existing		68202
National Print Journals	Existing		81
e-Journals	Existing		1262

e-Books	Existing		2284
Book Bank Facility (for SC / ST Students and OBC/EBC/OPEN Students)	Existing		Available
Reading Hall Seating Capacity(Plus Periodical Section)	Existing		150
Reprographic Facility	Existing		Available
NPTEL Facility	Existing		Available
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	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. N. M. Mule	MOODLE	E Material	20-11-2018
Prof. N. S. Deokule	MOODLE	E Material	10-04-2019
Prof. K. R. Pawar	MOODLE	Youtube, E Material	05-03-2019
Prof. A. V. Sathe	MOODLE	Youtube, E Material	26-10-2018
Prof. J. A. Adamane	MOODLE	E Material	28-01-2019
Department		No of Faculty Completed Online Course Delivered on SWAYAM (Regular+ Contract)	
Civil		5	
Mechanical		2	
Electrical		4	
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	250	Data Center	300MBPS		50	20	120	Internet leased lines of 300MBPS

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

300 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)	http://117.239.185.161/moodle/
Digital Library URL (Locally Hosted on College Server)	http://172.16.1.39:81/

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/18-19_4.4.1_budget_expenditure_1615352904.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. Punjabrao Deshmukh Vastigruh Nirvah Bhatta (DTE) **General**	1,440 (Total)	₹ 1,69,83,739 (Grand Total)
Financial Support from Other Sources	Rajarshi Chhatrapati Shahu Mahraj Shikshan Shulkh Shishyavrutti Yojna **(EBC)**		
a) National	Government of India Post-Matric (Scholarship) **SC**		
b)International	Post matric scholarship **OBC, SBC, VJNT**		
	Tuition Fee & Exam Fee for Tribal Students (Free ship)		
	Maintenance Allowance for student Studying in professional courses		

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	The Dais Talk	150 Beneficiary	GCEK
	The Dais Competition	80	
	TEDxGCEK	100	
Aerobics & Zumba Club	Daily Session of aerobics and Zumba, Guest lecture by Mr. Nitin Chandanshive, INDUCTION programme	Girl Student (50) , Ladies faculty	GCEK
Yoga club	Daily Session of Yoga, Herb plantation	50 + faculty	GCEK
Electrochasers club	"Workshop on SQL" 20th January 2019 to 21st January 2019	51	GCEK
	"Internship on Internet of Things" 24th May 2019 to 28th May 2019	69	
Contriever club			GCEK
Divine club	Street Play on 09/10/2018	500 citizens of Goware	GCEK
	Digital Literacy on 12/10/2018	55 Beneficiary	
	Visit to school and take different competitions on 09/02/2019	35 Beneficiary	
Word worth club	Quotation and Purchase order for the first batch of books 22/03/2018		GCEK
	Interaction and book distribution 15/07/2018	2 coordinators and 20 students (from each branch)	
Attached herewith the link soft skill/technical skill trainings conducted for students http://gcekarad.ac.in/uploaded_files/18-19_soft_skills_training_to_students_1615353028.pdf			

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 GATE qualified- 51	E &TC: -02 Total students placed- 151
http://gcekarad.ac.in/uploaded_files/2018-19_GATE_qualified_1615353093.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					
Name of	Number of students	Number of students			

organizations visited	participated	placed			
44		160			

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
2018-19		B.Tech	Civil Engineering		
2018-19	03	B.Tech	Electrical Engineering		
2018-19		B.Tech	Information Technology		
2018-19		B.Tech	Mechanical Engineering		
2018-19		B.Tech	E&TC		
2018-19	01	BTech	Information Technology	BINGHAMTON University	Computer Science MS

http://gcekarad.ac.in/uploaded_files/18-19_student_progression_to_higher_studies_1615353050.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	E&TC- 02,Total GATE qualified- 51
CAT	E&TC- 02
GRE	E&TC- 02

http://gcekarad.ac.in/uploaded_files/2018-19_GATE_qualified_1615353093.pdf

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	11

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Table Tennis(Men)	National	3rd place in Inter Zonal Tournament			Ajinkya Rajendra Bhosale
2018	Volleyball (Men)		Qualified			
2018	Chess (Men)		1st place in Zonal Sports			Omkar Kumbhar (TE Civil)
2018	Handball (Men)		4th place in Zonal Sports			
2018	Cricket (Men)		4th place in Zonal Sports			

2018	basketball (girls)		Selected for Ashvamedh Krida Mahotostav			Snehal Gaikwad
2018	Athletics 200 Mtr		1st place			Sonal Sangade
2018	Athletics 800 Mtr		Women 1st place			Jyoti Waghmare
2019	TShirt Design Competition Aavishkar 2k19	National	1	Winner	17141247	Rushikesh Chaudhari
2019	Avishkar, Pinnacle	National	1	Winner	17141126	Pragati Sharma

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 :

2018- 2100

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 programs. 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

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	support
7th – 9th Sept, 2018	Prof. V. S. Jadhav	"4th World Summit on Accreditation: Challenges & Opportunities in Outcome Based Accreditation" organized by NBA at THE Ashok Hotel, New Delhi	--	Plane fare + DA
16th – 17th May, 2019	Prof. N. V. Sali	Two Day workshop on "Web-Based PMS Software" organized at BVB's Sardar Patel CoE, Andheri (W), Mumbai	--	TA+DA
2018-19	Dr. U. V. Pise ID: 7180510163 Valid from 01-04-2018	--	SAE INDIA (Membership) 1/17 Ceebros Arcade,	Rs. 1298/-

| | to 31-03-2019 | | 2nd Floor, 3rd Cross, Kasturba Nagar, Adyar, Chennai 600020 | | | |

6.3.2 – Number of professional development / administrative training programs organized by the Colleges for teaching and non-teaching staff during the year

Year	Title of the professional development program 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)
2018-19	Enhancing Teaching Learning Process and Re-search skills		29/10/ 2018	1/11/ 2018	91	
2018-19	Developing Basic Competencies in Laboratory		4/02/ 2019	8/02/ 2019	120	
2018-19	Art of Living		27/07/ 2019	29/07/ 2019	51	
2018-19	Ethical Hacking & Digital Forensics		7/2/ 2019	8/2/ 2019	60	

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

http://gcekarad.ac.in/uploaded_files/STTP-FDP-workshop_conducted_by_GCEK_18-19_1615353254.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
One Week STTP on "Enhancing Teaching Learning Process & Research Skills" jointly organized by MCA & Mechanical Dept, Govt College of Engg Karad & IT Dept, REC Azamgarh, UP (Under Twining activity of TEQIP-III)	Dr. A. R. Acharya Prof. G. S Dhende Prof. Swati S. Jadav Prof. Shushant H. Patil	29th Oct. 2018	2nd Nov 2018	One Week
10 Days International Winter Academia IWA-2018 organized by Mechanical Dept, GCE Karad & Rajkiya College of Engg, Azamgarh (UP) (under Twining activity of TEQIP-III)	Prof. V. S. Jadhav Dr. A. R. Acharya Prof. N. V. Sali Prof. V. B. Raka Prof. (Mrs) M. H. Yadav Prof. Swati S. Jadav Prof. Shushant H. Patil Prof. P. R. Wani Prof. V. H. Karande Prof. A. K. Jha	13th Dec, 2018	21st Dec, 2018	10 days
One week FDP on "Improvement of Technical Education System and Industry Institute Interaction" organized by DTE	Prof. P. R. Wani	21st Jan, 2019	25th Jan, 2019	5 Days

Mumbai				
One week MDP on "Professional Development Training" Organized by IIM, Indore, M. P. (TEQIP-III)	Dr. U. V. Pise	28th Jan 2019	01st Feb 2019	One Week
One Week STTP on "Fundamentals & Applications of Computational Fluid Dynamics (CFD)" organized by Mechanical Dept, GCE Karad & Rajkiya College of Engg, Azamgarh (UP) (under Twining activity of TEQIP-III)	Prof. (Mrs) S. S. Jadhav Prof. N. V. Sali	2nd April 2019	6th April 2019	One Week
MDP on "Professional Development Skills" Organized by IIM, Kozhikode, Kerala (TEQIP-III)	Prof. N. V. Sali	18th June 2019	22nd June 2019	One Week
Enhancing Teaching Learning Process and Research Skills, organized by GCE Karad	Dr. S. H. Pawar Prof. S. K. Patil Prof. S. V. patil Prof. U. S. Patil	29/10/2018	02/11/2018	One Week
Digital Image Processing hands on with Software and Hardware platforms	Prof. K. K. More Prof. S.A. Morkhade	04/06/2018	09/06/2018	One Week
Technical Education Quality Improvement Program, organized by IIM Visakhapatnam	Dr. S. H. Pawar	15/07/2019	19/07/2019	One Week
Internet of Things & Mechatronics: Hands-on Training on Raspberry-PI	Prof. S. K. Mahindrakar Prof. U. S. Patil	25/06/2018	29/06/2018	One Week
IoMT: IoT and Medical technologies	Prof. S. K. Mahindrakar	11/12/2018	15/12/2018	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_18-19_1615353254.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
55	Full Time- 55, Visiting, Adjunct- 63	Class 2 – 01 Class 3 – 62 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_1615353181.pdf

Approved AICTE AQIS application details are as follows :-				
AQIS Application Id	**AQIS Schemes**	**Faculty Id**	**Faculty Name**	**Academic Year**

| 1-4182281867 | MODROBS - Modernisation & Removal of Obsolescence | 1-3572786883 | Dr. Uday kumar Patil | 2018-19 |
| 1-4149117386 | RPS – Research Promotion Scheme | 1-3570908773 | Dr. Ramakant Srivasatava | 2018-19 |

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 region al 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 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
2018-19	1) Motivation to promote Patent filing 2) Initiative to arrange FDP/STTP in				(For point 1,2 refer 6.2.2,6.3.3 into the report) Discussed into the meeting for implementation of WiFi

	New trends in technology 3)Need of WiFi in all departments 4) Initiative to start some new student club activities in AI, CV, SpiceMacay, Foreigh language etc and competitive exam club				Dean Students and coordinators has initiated the activities to upgrade the skills of students (refer point 5.1.2)

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the program	Period from	Period To	Number of Participants (Male, Female)
Daily Session of Yoga	8th July 2018		50 Students , Ladies Faculty
Celebrating Navaratri Ustav	10th October 2018	12th October 2018	
Daily Session of aerobics and Zumba	2/09/2018	2/11/2018	50 Students , Ladies Faculty
Guest lecture by Mr. Nitin Chandanshive	17th January 2019	17th January 2019	50 Students , Ladies Faculty
Guest Lecture by Dr.Savita Mohite	12 0ctober 2018	12 0ctober 2018	
Organizing Festival on International women's day.	8th march 2019	10th march 2019	
Movie Marathon	8th march 2019	8th march 2019	
Interactive Session	9th march 2019	9th march 2019	
Food Festival	10th march 2019	10th march 2019	
Sand Art Workshop	16th march 2019	16th march 2019	

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 iwill 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. Faculty, Women ,

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)
1. The rich vegetation within the campus facilitates a lower temperature (3-4 °C) in the campus as compared to the external campus temperature.
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.
3. Use of Plastic is strictly banned in the campus.
4. Solar Lighting on the streets within the campus is implemented.
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.
6. Institute developed Eco-friendly and energy efficient campus by implementing Rain water harvesting, Recycling of resources, Solar roof tops for major buildings,
7. Waste to energy, Biogas plants, Sewage treatment plant (STP), etc.

7.2 – Best Practices
7.2.1 – Describe at least two institutional best practices
1. Improvement in quality publication
2. Rise in consultancy testing
3. Wifi networking and MIS implementation
4. FDP/STTP conduction and deputation
5.Student club activities to improve the skills
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.Good placement performance
2.Excellent facility for 3D printing and support of center of excellence
3.Research
4.Testing and consultancy
8 .Future Plans of Actions for Next Academic Year
1. Providing excellent soft skill training to students to enhance the employability
2. Initiative for startup cell innovation-incubation center
3. Efforts to put more participation of students in competitive exams, project competitions and GATE exam through different club's activities