



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

Part A	
<b>Data of the Institution</b>	
<b>1. Name of the Institution</b>	GOVERNMENT COLLEGE OF ENGINEERING JALGAON
Name of the head of the Institution	Prof. Dr. R. D. Kokate
Designation	Principal (in-charge)
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02872281522
Mobile no.	9767423528
Registered Email	principal.gcoejalgaon@dtmaharashtra.gov.in
Alternate Email	princoej@rediffmail.com
Address	NH 6 IN FRONT OF GOVT ITI
City/Town	JALGAON
State/UT	Maharashtra
Pincode	425001

<b>2. Institutional Status</b>					
Autonomous Status (Provide date of Conformant of Autonomous Status)	17-Apr-2014				
Type of Institution	Co-education				
Location	Urban				
Financial Status	state				
Name of the IQAC co-ordinator/Director	Prof. (Dr.) Mahendra J. Sable				
Phone no/Alternate Phone no.	02872281522				
Mobile no.	9850375970				
Registered Email	mjsable6671@gmail.com				
Alternate Email	principal.gcoejalgaon@demaharashtra.gov.in				
<b>3. Website Address</b>					
Web-link of the AQAR: (Previous Academic Year)	<a href="https://gcoej.ac.in">https://gcoej.ac.in</a>				
<b>4. Whether Academic Calendar prepared during the year</b>	Yes				
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://www.gcoej.ac.in/?page=NzQ=#parentVerticalTab2">https://www.gcoej.ac.in/?page=NzQ=#parentVerticalTab2</a>				
<b>5. Accrediation Details</b>					
				Validity	
Cycle	Grade	CGPA	Year of Accrediation	Period From	Period To
1	B+	2.67	2018	30-Nov-2018	29-Nov-2023
<b>6. Date of Establishment of IQAC</b>			04-Oct-2018		
<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	Date & Duration		Number of participants/ beneficiaries		

No Data Entered/Not Applicable!!!

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**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
Government College of Engineering Jalgaon	Technical Education Quality Improvement Programme of Government of India (TEQIP III)	National Project Implementation Unit (NPIU)	2018 1095	70000000
DTE Mumbai	Improvement of Technical Education System and Institute Interaction.	DTE Mumbai	2019 5	180000

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**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

1

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

**11. Whether IQAC received funding from any of the funding agency to support its activities during the year?**

No

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

- Facilitated to organize workshops/ Training for teachers and staff for qualitative improvement.
- Organized cultural, skill developmental events for students overall improvement.
- Facilities provided to the students by organising skill based training in areas of Amazon web Services, IoT, Python boot camp, etc
- Pedagogical training imparted to the faculties.
- Soft skill training and GATE coaching provided to the students.

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**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achivements/Outcomes
To organized workshops / FDP /conference	Organized workshop for students, faculty/staff under TEQIP III
To organize cultural events/ National level Competition	Organization of national level activities like Abhivyakti, Jallosh, Techno-vision, Techno-Arena,
Strengthening formal student mentoring program	More students approach for mentoring / counselling
Strengthening and improvement of library facilities.	Library facilities are constantly upgraded with E Books, digital library, and reference and text books.
Revision of curriculum as per AICTE model curriculum	Curriculum structure finalised as per AICTE guidelines and detail syllabus prepared for 1st year B. Tech and M. Tech programmes.
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**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

Year of Submission

2019

Date of Submission

04-Feb-2019

**17. Does the Institution have Management Information System ?**

Yes

If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)

For student registration and examination dedicated MIS at institute level is available There are various modules such as: 1) Admission form of students and updaton of related data. 2)Course registration..3) Examination registration 4) Declaration of results. 5) Result analysis.6) Students feedback and analysis 7) Declaration of list of eligible students for insemester and

final examination. Also for TEQIP III related activities separate MIS is available .

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	ME	-	01/08/2018
BTech	CO	-	01/08/2018
BTech	EE	-	01/08/2018
BTech	CE	-	01/08/2018
BTech	ET	-	01/08/2018
BTech	IN	-	01/08/2018

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Electrical Engineering	01/08/2018	EDP, Effective Technical Communication,	01/08/2018
BTech	Computer Engineering	01/08/2018	Programming with Python, EDP	01/08/2018
BTech	Mechanical Engineering	01/08/2018	Professional Elective Courses	01/08/2018
BTech	Instrumentation Engineering	01/08/2018	Professional Elective Courses	01/08/2018
BTech	Civil Engineering	01/08/2018	Professional Elective Courses	01/08/2018
BTech	Electronics and Telecommunication Engineering	01/08/2018	Professional Elective Courses	01/08/2018

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#### 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
PhD or DPhil	Electronics and Telecommunication Engg	23/06/2018

PhD or DPhil	Electrical Engineering	28/08/2018
PhD or DPhil	MechanicalEngineering	28/08/2018
PhD or DPhil	Instrumentation Engineering	28/08/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	CO	01/08/2018
BTech	CE	01/08/2018
BTech	ME	01/08/2018
BTech	IN	01/08/2018
BTech	ET	01/08/2018
BTech	EE	01/08/2018

### 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
INDUCTION PROGRAM	01/08/2018	266
<a href="#">View File</a>		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Mechanical Engineering	22
BTech	Civil Engineering	7
BTech	Electrical Engineering	55
BTech	Electronics and Telecommunication Engineering	25
BTech	Computer Engineering	9
BTech	Instrumentation Engineering	42
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### 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	No
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

## Feedback Obtained

Two feedbacks per semester are taken in standard format from three student representatives of each class about teaching learning process by Dean Student affairs and Principal of the institute. It is discussed in detail in the meeting of Head of the Departments and Deans and accordingly the corrective action is taken. Feedback is also taken from each student online through MIS at the end of each semester. Overall performance of each faculty and department can be analysed with the help of MIS. It is also discussed in detail in the meeting of Head of Departments and Deans and corrective action is taken Thus it helps for overall development/improvement of individual faculty members as well as institute in general.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
No Data Entered/Not Applicable !!!				
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### 2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1635	5	44	0	3

### 2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
47	45	3	12	7	4

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

There are 1640 students are enrolled for AY 2018-19 and 47 faculties on roll. Each faculty is assigned with 30-40 students and they are asked to mentoring for students until students get pass out from the college. One program for the mentors was also arranged to guide them. Mentors guide students regarding their problems. Also for future opportunities. Some times mentors assist students for choosing electives as per requirement of students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1640	47	1:35

## 2.4 – Teacher Profile and Quality

### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
99	47	52	0	10

### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr D S Chaudhari	Professor	DLitt
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## 2.5 – Evaluation Process and Reforms

### 2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
No Data Entered/Not Applicable !!!				
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### 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
0	3049	0

## 2.6 – Student Performance and Learning Outcomes

### 2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://www.gcoej.ac.in/>

### 2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
ME	BTech	MECH ENGG	79	78	98.73
ET	BTech	ELECTRONICS AND TELECOMMUNICATION ENGGAND	74	73	98.64
IN	BTech	Instrumentation Engg.	77	76	98.7
EE	BTech	Electrical	75	74	98.66



		Engg.			
CO	BTech	Computer Engg.	75	73	97.33
CE	BTech	Civil Engg.	70	67	95.71
ET	Mtech	M. Tech. (Electronics and Telecommunication Engg)	5	5	100
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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

[\\_https://gcoej.ac.in/?page=NzQ=#parentVerticalTab3\\_](https://gcoej.ac.in/?page=NzQ=#parentVerticalTab3)

## 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

No

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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
<b>No Data Entered/Not Applicable !!!</b>				
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### 3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
<b>No Data Entered/Not Applicable !!!</b>				
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0

### 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
1) To make or Create innovative ideas.	Electronics and Telecommunication Engg	03/12/2018
2) Patent filling and research publication and	Electronics and Telecommunication Engg	03/12/2018

research projects

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### 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
Best Research paper in International Conference	Prof. W. A. Gavhane	ICRIETMR, BKIT Kota, Rajasthan	25/12/2018	International

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### 3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
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No Data Entered/Not Applicable !!!

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## 3.4 – Research Publications and Awards

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

Name of the Department	Number of PhD's Awarded
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No Data Entered/Not Applicable !!!

### 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)
National	Civil Engg	5	3
National	Electronics and Telecommunication Engg	4	4
National	Instrumentation Engg	6	2.5

No file uploaded.

### 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 Engg	6
Electrical Engg	3
Instrumentation Engg	10
Electronics and Telecommunication Engg	13
Mechanical Engineering	1

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### 3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
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No Data Entered/Not Applicable !!!

No file uploaded.

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
An Effective Optimization-Based Neural Network for Musical Note Recognition	R. D. Kokate	Journal of Intelligent Systems	2019	2	Department of Instrumentation Engineering Government College of Engineering Jalgaon	2
Robust fast finite-time sliding mode control for industrial robot manipulators	G. M. Malwatkar	International Journal of Dynamics and Control	2019	2	Department of Instrumentation Engineering Government College of Engineering Jalgaon	2
Design of interval type-2 fuzzy precompensated PID controller applied to two-DOF robotic manipulator with variable payload	P. J. Gaidhane	ISA transactions	2019	9	Department of Instrumentation Engineering Government College of Engineering Jalgaon	9
A hybrid grey wolf optimizer and artificial bee colony algorithm for enhancing the performance of complex systems	P. J. Gaidhane	Journal of computational science	2018	9	Department of Instrumentation Engineering Government College of Engineering Jalgaon	9
Disturba	G. V.	IEEE Tra	2019	1		1

nce Observ er-Based Fuzzy Adapted S- Surface Controller for Spatial Trajectory Tracking of Autonomous Underwater Vehicle	Lakhekar	nsactions on Intelli gent Vehicles			Department of Instrum entation E ngineering Government College of Engineerin g Jalgaon	
Adaptive fuzzy expo nential terminal sliding mode controller design for nonlinear trajectory tracking control of autonomous underwater vehicle	G. V. Lakhekar	Internat ional Journal of Dynamics and Control	2019	5	Department of Instrum entation E ngineering Government College of Engineerin g Jalgaon	5
Review of Orthogonal Frequency Division M ultiplexin g for Wireless C ommunicati on	S. P. Mohani	Internat ional Research Journal of Engineerin g and Technology	2018	0	Department of Electro nics and Telecom. E ngineering Government College of Engineerin g Jalgaon	0
Impact of Climate Change on Runoff Generation in the Upper Godavari River Basin, India	V. R. Saraf	Journal of Hazardous, Toxic, and Radioactiv e Waste	2018	0	Department of Civil E ngineering Government College of Engineerin g Jalgaon	0
Simulation of Rainfall Runoff Process	V. R. Saraf	European Journal of Engineerin g Research and Science	2019	0	Department of Civil E ngineering Government College of	0

Using HEC-HMS Model for Upper Godavari Basin Maharashtra, India					Engineering Jalgaon	
A Survey on Agriculture Monitoring and Disease Identification System	H.D. Gadade	International Journal of Computer Science and Mobile Computing	2019	0	Department of Computer Engineering Government College of Engineering Jalgaon	0
<a href="#">View File</a>						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
<b>No Data Entered/Not Applicable !!!</b>						
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### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
<b>No Data Entered/Not Applicable !!!</b>				
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## 3.5 – Consultancy

### 3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

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

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
<b>No Data Entered/Not Applicable !!!</b>				
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## 3.6 – Extension Activities

### 3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities

No Data Entered/Not Applicable !!!

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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
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No Data Entered/Not Applicable !!!

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
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No Data Entered/Not Applicable !!!

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### 3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
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No Data Entered/Not Applicable !!!

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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
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No Data Entered/Not Applicable !!!

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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
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No Data Entered/Not Applicable !!!

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## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
75.62	75.62

#### 4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Others	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
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#### 4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Slim-21	Fully	3.0	2013

##### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	34782	13981854	806	568513	35588	14550367
Reference Books	642	1309790	6	9000	648	1318790
e-Books	772	0	0	0	772	0
e-Journals	275	643000	0	0	275	643000
Digital Database	1281	162600	0	0	1281	162600
Others (specify)	9	12240	0	0	9	12240
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##### 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			
No file uploaded.			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	743	8	1	7	1	1	8	1000	0
Added	110	0	0	0	0	0	0	0	0
Total	853	8	1	7	1	1	8	1000	0

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

1000 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
<b>No Data Entered/Not Applicable !!!</b>	

#### 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
60	54.5	7.2	5.5

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

Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. are prepared by respective deans/officials and same are forwarded to BoG for approval. After seeking financial approval with correction if any from BoG, the resolution is passed by the BoG. Same is used for implementation. Minutes of all BoG meetings are available on institute website  
(<https://gcoe.ac.in/?page=MTM#parentVerticalTab2>)

<https://gcoe.ac.in/?page=MTM=#parentVerticalTab2>

### CRITERION V – STUDENT SUPPORT AND PROGRESSION

#### 5.1 – Student Support

5.1.1 – Scholarships and Financial Support

Name/Title of the scheme	Number of students	Amount in Rupees
<b>No Data Entered/Not Applicable !!!</b>		
<a href="#">View File</a>		

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
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			



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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	GATE Registration fee reimbursement	380	0	55	0
2019	GATE Coaching fee reimbursement	55	0	55	0
2018	Employability test for students	0	1554	0	116
2018	Soft skill and Aptitude Training Program	0	175	0	116
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
1	1	30

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
No Data Entered/Not Applicable !!!					
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
No Data Entered/Not Applicable !!!					
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
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#### 5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
<b>No Data Entered/Not Applicable !!!</b>		
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### 5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Silver	National	0	1	15	Ansh Shriwa
2018	Silver	National	0	1	15	Chetan Kotwal
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#### 5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Students are always involved in different extracurricular activities through cultural committee consisting with the faculty and student members. Every year Student Council is formed which consist of 01 University Representative, 01 Cultural Secretary. 01 Sports Secretary, 02 ladies Representative and 02Caste Representative as per University act. Apart from this 01 Class Representative from each class is selected. As this institute got autonomous status in the year 2014, 03 students i.e 02 from UG and 01 from PG are working in Academic Council as amember. The institute has well-groomed teams and offers the facilities for all games and sports activities namely Athletics, Basketball, Chess, Cricket, Football, Kho- Kho, Kabaddi, Volleyball, offered by North Maharashtra University. Annual Sports conducted by college for a week in the month of January / February each year. Various events like Athletics, Basketball, Chess, Cricket, Football, Kho-Kho, Kabaddi, Volley Ball etc. are arranged for interdepartmental students and faculty members. Separate events for boys, girls and for staff are also conducted. Both indoor and outdoor games (viz Carrom, Chess, Football tournament, Cricket etc.) are played throughout the year. Also this institute is having sufficient space to conduct Annual social gathering, which also includes various committees, like Reception, Stage, Sound System, Refreshment, Dance, singing, Drama, Fishpond etc. For all these sub event 01 co-ordinator and 01 co-coordinator are selected. Institute organizes Technical programs every year viz Techno- Arena and Techno-Vision. Techno-Arena consists of various technical activities while Techno- Vision consists of technical paper presentation . Apart from this we also organize a Cultural Event viz- ABHIVYAKTI. For all these 03 events 01 co-ordinator and 01 co-coordinator are selected for each event and also for sub committees formed under these events. Every year a special committee is made for girls viz Yuvati Sabha , her 02 girls works as a co-ordinators, they conduct expert talk of well known ladies every year and conduct the programme of self defence for girls for which University provides necessary fund. Hostel committee is also formed in girls and boys , related to mess and discipline. Other Activities: Blood Donation Camp in the Campus every year. Industrial visit conducted by the Training and Placement Cell in association with the department for the students

of 3rd year. Cleanliness Campaign on 15th August Participation in intra or inter-departmental seminar /conference/ workshop, quiz and debate etc. Students also publish Departmental Technical Magazine and Newsletter. Fresher's welcome and farewells conducted by the Students Association of department. And Institute level programs include, Shivjayanti, cultural night etc. Students are motivated to conduct and participate in workshops, seminars etc. Students participate in industrial awareness camp conducted by the institute

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The alumni association of institute is registered under societies act and regularly functioning. Since its foundation it is contributing significantly towards the development of institution. The major activities conducted by association are 1. Continuous drive for membership registering, mentoring the members towards contribution through experience sharing, seeking help of members for campus placement of students. 2. Association regularly conducts industry alumni institute interaction programs, annual general body meetings etc. 3. Few of the alumni have established formal tie up with institute and conduct industry oriented STTPs to directly generate placement of outgoing students. 4. Outgoing students are assigned with group of alumni which help the students to seek employment. 5. Annually alumni association conducts Best Project Competition for final year students to uplift the innovation skills of students. 6. Alumni association consistently sponsors the student activities like Technoarena, Technovision and ISTE/IETE/TEQIP activities and conferences etc.

5.4.2 – No. of registered Alumni:

360

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

20400

5.4.4 – Meetings/activities organized by Alumni Association :

Every year two meetings are held. One industry alumini meets is conducted. Annually alumni association conducts Best Project Competition for final year students to uplift the innovation skills of students. Alumni association consistently sponsors the student activities like Technoarena, Technovision and ISTE/IETE/TEQIP activities and conferences etc.

#### 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)

- Financial power given to HoD's for the expenditure up to Rs 50000/- per year from year 2018-19. HoD's can spend this amount for the emergency maintenance of the equipment or purchase of lab or other equipment of departmental importance such as printer repair, petrol diesel, consumables required for laboratory and student projects etc.
- Budget preparation: While preparing budget of institute, bottom to top approach is adopted. HoDs of respective department prepare their own budget depending on the needs of the department and same is compiled at institute level and finally approved by BoG.

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
Library, ICT and Physical Infrastructure / Instrumentation	<ul style="list-style-type: none"><li>• The institution has the practice of wide use of ICT based environment at the academic and the administrative levels.</li><li>• The college is also a subscriber of IEEE, ASME, ASCI, Science Direct etc. and e-books are also made available.</li><li>• The college library provides computer based book searching.</li><li>• ICT facilities strengthened by procuring advanced software and hardware.</li></ul>
Research and Development	<ul style="list-style-type: none"><li>• Established university recognised research laboratories in five departments to strengthen research capabilities</li><li>• Advanced and sophisticated instruments/software are purchased under TEQIP.</li><li>• Financial assistance is given to the faculty members enrolled for the Ph. D. Programme.</li></ul>
Human Resource Management	<ul style="list-style-type: none"><li>• The management firmly believes in participative decision-making and functioning. Conscious efforts have been taken by the management for the involvement of all elements of the system in institutional process.</li><li>• Numbers of committees are formed every year for various functions and activities of the college. The members in various committees are rotated every year so that the involvement of staff in various activities like Abhiviyakti, Technovision, Jallosh and TechnoArena activities increases.</li><li>• The active staff members are encouraged to play lead roles in various, functions /activities / events. Good blend of senior and junior staff members formed in the committees, with the objective of experience sharing and team building, helps in successful completion of task.</li><li>• The teaching and non-teaching staff members are deputed to participate in various training programmes in order to upgrade themselves.</li><li>• The college deposes the newly recruited faculty members for an induction programme.</li></ul>
Industry Interaction / Collaboration	<ul style="list-style-type: none"><li>• The college has initiated various collaborative activities with different</li></ul>

academic / research institutions and industries, few linkages were established. • Various Labs of the College is referred to and used by some of the local industries for testing and RD work.

Admission of Students

• Admissions to the various programmes are made on the basis of merit through CAP Centralised admission Process a Govt of Maharashtra Portal for admissions to engineering. • During the admission process, the faculty and experts provide help, support and advice to the students regarding various programme options available to them.

Curriculum Development

The Government College of Engineering, Jalgaon (M.S.) established in the year 1996 witnessed a phenomenal growth during its graceful existence for past 21 years. Having begun from mere 03 disciplines with intake of 180 students the college presently rolls over 1600 students. It imparts engineering educations at UG level in six disciplines viz. Civil, Mechanical, Electrical, Electronics Telecommunications, Instrumentation and Computer Engineering. It also offers a post graduate course in Electronics Telecommunication (Digital Systems). It attained an autonomous status w.e.f. academic year 2014-15. Following up timely guidelines of AICTE and UGC, the college academic council has defined its structure and curriculum for various undergraduate and postgraduate level engineering programs. The design of entire curriculum is done with a focus on meeting the mission and vision of institute. To cover the global aspect of vision, for process of designing the curriculum, the college has involved and valued the opinions of assorted stakeholders, such as academicians of repute, experts from industries, employers, and alumni working in all vital sectors at responsible positions. Reviewing and justified modification of the curriculum is done by means of consistent feedbacks collected from these stakeholders. Principle objective of the curriculum and its design is to disseminate the state-of-art knowledge considering emerging socio-technical scenario of engineering education with

due focuses on balancing infield opportunities and various skills required. This naturally leads to attainment of mission and vision of the institute. With an uphold belief that students can be taught to think and learn independently to be competent and confident the complete flow of academia is streamlined. Aptly designed course objectives work and fit better under program specific objectives. At apex level, program objectives undertake due considerations regarding implementation and execution of all programs effectively and thereby reaching the ultimate goals of the institute. The college academic council oversee the inclusion of skill-development and value-addition courses to enrich the curricula. Addition of specific methodologies like self-studies and surprise tests imparts distinct edge to quality of academic assessment. In house trainings, industrial visits and execution of MoU's with leading industries and academic institutions also accelerates the progress of the students and college as a whole.

**Teaching and Learning**

Teaching faculties have been motivated for extensive use of ICT in the teaching-learning process. For this smart classrooms have been developed. Having recognized the importance of ICT tools and techniques in the process of effective teaching- learning, the institution has drawn a strategic plan:

- To build, expand and update ICT infrastructure on the campus.
- To train the faculty members for making them ICT enabled.
- To motivate teachers to use modern teaching aids based on ICT and day by day enhanced the proportion of ICT based teaching.
- To motivate the students to use ICT infrastructure and tools for effective learning experiences.

**Examination and Evaluation**

Each year, the college constitutes a special examination committee to ensure effective implementation of all activities related to internal and external examinations and assessments. Internal theory exams of all faculties and classes are conducted at a time and as strict as mentioned in the academic calendar of institute. Time table of the theory examination, room allotment, supervision schedule and result

submission schedule is displayed on notice board as well as on institute website it is and strictly followed.

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

E-governance area	Details
Planning and Development	In-house development of website through SDC (Software Development Cell) website gcoej.ac.in and hostel admission website is designed and maintained by the SDC.
Finance and Accounts	Being a government institute SEVARTH PRANALI is provided for salary and account related activities.
Student Admission and Support	For student registration and examination dedicated MIS system is available in the institute. OBE software has been purchased by the institute for calculation of attainment of Cos and POs required for NBA accreditation process.
Examination	For student registration and examination dedicated MIS system is available in the institute. OBE software has been purchased by the institute for calculation of attainment of Cos and POs required for NBA accreditation process.

### 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
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

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 organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
<b>No Data Entered/Not Applicable !!!</b>						
<a href="#">View File</a>						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the	Number of teachers	From Date	To date	Duration
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professional development programme	who attended			
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	0	0	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
As per State Government Norms	As per State Government Norms	As per State Government Norms

## 6.4 – Financial Management and Resource Mobilization

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

Yes, for Institute account Audit is conducted every financial year. For financial year 2018-19 audit is completed on 8 Nov 2019 by CA Nachiket V Joshi. Internal audit for TEQIP III office is conducted by firm Agarwal and Dhandania
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6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NIL	0	NIL
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6.4.3 – Total corpus fund generated

78653
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## 6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	External Experts from Govt and Aided Institutes	No	NA
Administrative	No	NA	No	NA

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

Parent - Teacher Association is not in existence
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6.5.3 – Development programmes for support staff (at least three)

<ul style="list-style-type: none"> <li>• Training on Developing Positive Attitude towards institutional work at Walvan Village Resorts, Lonawala, Pune for non teaching staff</li> <li>• Workshop on Skill Development Programme for non-teaching staff.</li> <li>• Workshop on Knowledge Management in digital environment at Karad</li> <li>• STTP on Developing basic competencies in Laboratory at GCOE, Karad</li> <li>• STTP on Capacity Enhancement</li> </ul>
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## Training Program for Faculty Staff

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

- Curriculum: Curriculum has been revised as per model curriculum of AICTE.
- Academic: Students as well as faculty members are encouraged for SWAYAM courses and financial assistance is provided under TEQIP.
- Research: Five state of the art research labs are established and recognised by KBC North Maharashtra University, Jalgaon.
- Financial assistance is provided for student training, industrial visits, internship etc.

### 6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
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
No Data Entered/Not Applicable !!!					
<a href="#">View File</a>					

## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Program on Legal Act for women	04/02/2019	04/02/2019	100	55

#### 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
<ul style="list-style-type: none"> <li>• There is 50 percent reduction in lighting load main building as all tube lights in the main building have been replaced with LED tube lights of 20 W.</li> <li>Street lights in the campus are also replaced by LED street lights of 40 W for energy conservation.</li> <li>• The institute is planning to install solar rooftop power plant under RESCO mode through Maharashtra Energy Development Agency (MEDA).</li> <li>Comprehensive Energy Audit of entire campus by certified Energy Auditor is also under process.</li> </ul>

#### 7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	5
Physical facilities	Yes	5

#### 7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to	Number of initiatives	Date	Duration	Name of initiative	Issues addressed	Number of participating
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	address locational advantages and disadvantages	taken to engage with and contribute to local community					students and staff
2019	1	1	19/01/2019	1	Industry meet	Employability of students, Student Internship and Placement	200
<a href="#">View File</a>							

#### 7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Code of Ethics to check malpractices and plagiarism in Research	09/10/2018	All the M Tech and Ph D thesis and research publications are checked for the plagiarism.

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!			
<a href="#">View File</a>			

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

1) All 40W fluorescent tube lights in the administrative building have been replaced by 20W LED tube lights. 2) About 50 street lights in campus have been replaced by efficient LED street lights. 3) Institute is planning to install roof top solar PV plant under RESCO mode through Maharashtra Energy Development Agency. 4) Solar Water heaters have been installed new minority hostel for girls. 5) Most of exam and administrative work is done digitally so papers are saved.
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## 7.2 – Best Practices

#### 7.2.1 – Describe at least two institutional best practices

<p><b>BEST PRACTICE I:</b> 1. Title: Faculty Development Schemes. 2. Objective of the Practice: The objective of the practice is to motivate the faculty members to do research, organize and attend conferences, workshops, seminars and synopsis to get to know emerging technology trends and also to update their domain knowledge. 3. The Context of the Practice: For effective teaching as well as research engagements, faculty members are expected to have holistic idea of their area of specialization. To accomplish this, they require exposure to various inter-faculty interactions taking place via conferences, workshops, seminars, symposia etc. This situation is addressed by introducing various faculty development schemes. 4. The Practice: Research and Development Committee of the institution promotes and facilitates research undertakings of the faculty members. The faculty members are sponsored by the institute to attend the national / international conferences. To encourage quality research work by faculty members, various monetary incentives are in place. If the paper gets published in Scopus indexed journals, faculty gets reward of Co-curricular activity - all activity data are synch through MIS Rs.5000/-. If the faculty member receives grant from funding agencies, then 5 of the grant amount</p>
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is rewarded to the faculty member by the institute. Faculty members pursuing Ph. D. programs are provided with two years of fully paid study leave from the institute.

5. Evidence of Success: Enhancement in the number of faculty members registering for Ph.D. programs Enhancement in the number of quality publications by faculty members Increase in the number of workshops, seminars attended by the faculty members Increase in the number of faculty members implementing best pedagogic practices.

6. Problems encountered and resources required: Workload of the faculty members availing Ph. D. study leave is required to be allocated to faculty members. Fund allocation is required for supporting research activities and Ph. D. programs.

**BEST PRACTICE II:**

1. Title of the Practice: - ACADEMIC AUDIT

2. Objective of the Practice: To ensure every faculty member is performing well in academic activities. To give feedback to faculty members on areas which need improvement? To monitor the success of course outcomes and program objectives. To monitor the overall academic performance of students including co-curricular and extracurricular activities.

Intended Outcome Students are trained well in academics. Quality of teaching-learning process improves. Problems related to teaching-learning are brought to the notice of decision makers for solutions.

Underlying Principles / Concepts of this practice. Work culture and output improve when there is monitoring.

Best Practices of other Institutions are brought into RSET through the suggestions given through Auditing processes. Through continuous development, the quality of the institution is improved.

3. The Context of Practice: Educational institutions around the globe are growing at a rapid rate. Educational providers from overseas are interacting with institutions in India.

The academic audit helps the institution to improve quality in educational programs.

Challenging issues in designing and implementing Audits: More number of auditors are required be appointed for verifying the files of each department.

4. The Practice Academic Audit is conducted at the end of every semester: Page Auditing team is formed to audit these files and give their feedback to faculty, HOD and the Principle. External academic experts are invited if required to audit the files to maintain standards. As soon as one audit is completed, the suggestions for improvement are to be implemented to achieve the desired results. The documents in course files are to be arranged in order and checklists are to be provided to check whether all required documents are filed. Faculty members are to be motivated to receive the feedback from the auditor with an open mind and to improve his/her teaching/research skills. Every faculty member maintains course files for the theory as well as Laboratory subjects.

4. Constraints and Limitations : As the institution is affiliated to university, certain recommendations given by the auditors has a practical constraint while implementing

5. Evidence of Success : The Evidence for success is seen in the feedback received through subsequent audit reports. Some of their comments are given below: The audit system has improved the performance of the faculty members and teaching quality and their integrity. Significant improvement in teaching -learning process especially with regard to course content delivered and usage of teaching aids. Improvement in the ability of the faculty to identify the gaps in syllabus and to deliver the contents beyond syllabus. Enhancement in the usage of e-learning facilities and resources. Overall performance of the students in their written exam is satisfactory which exhibits the effective and innovative teaching methodology of the faculty. With regard to the preparation of assignments, the students have excelled in their creative skills.

6. Problems Encountered and Resources Required: The auditing process is usually scheduled during end semesters wherein practical difficulties in smooth conduct of auditing may be affected by the absence of faculty in campus as they may be engaged in other academic activities like valuation, NSS, Club activities etc . For department with more number of batches the auditing and arriving at proper consensus may be difficult for an individual course. Common course subjects like first year papers, Mathematics, the auditing and arriving at proper consensus may be

difficult.

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

<https://gcoej.ac.in/?page=Nz0=#parentVerticalTab3>

### 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

the vision of the institute is Globally accepted Engineers with Human Skills. This institute strives hard for academics as well as for co-curricular and extra-curricular activities. For that, students have to take participation in these activities and they earn credits for that. Students are sharpened with various social activities and ethical aspects. Techno-Vision and Techno-Arena are the programs based on technical knowledge are organised. Abhivyaakti is the national level cultural program. The gymkhana organises all these activities and celebrates birth anniversaries and death anniversaries of great Indian personalities. The oath is taken by everybody on National Water day. Gymkhana organises tree plantation program on 1st July of every year at the beginning of the monsoon season. This way, this institute makes students more and more educated in technical field as well as are made socially aware.

Provide the weblink of the institution

<https://gcoej.ac.in/>

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

1. The college is planning to promote research culture through organization of Inter-national conference, research methodology workshops such as statistical analysis, IPR, research publication etc. and establishing research incubation centre.
2. To strengthen academic and administrative setup such as continuing autonomy
3. Planning is also to revise the existing feedback system for teachers
4. College planned to strengthen the academia -industry relations and implement the
5. Entrepreneurship development program in association with District Industry Centre
6. To enhance employability and placement of students in core industry by organizing soft skill, industrial visits, internship, etc.