



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	GOKHALE EDUCATION SOCIETY'S R. H. SAPAT COLLEGE OF ENGINEERING, MANAGEMENT STUDIES AND RESEARCH, NASHIK
Name of the head of the Institution	Prafulla Chintaman Kulkarni
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	0253-2311842
Mobile no.	9850962732
Registered Email	principal@ges-coengg.org
Alternate Email	prafulla_kulkarni1@hotmail.com
Address	Gokhale Education Society's R. H. Sapat College of Engineering, Nashik Prin. T. A. Kulkarni Vidyanagar, Nashik
City/Town	Nashik
State/UT	Maharashtra

Pincode	422005																		
2. Institutional Status																			
Affiliated / Constituent	Affiliated																		
Type of Institution	Co-education																		
Location	Urban																		
Financial Status	Self financed																		
Name of the IQAC co-ordinator/Director	Gajanan M. Dhole																		
Phone no/Alternate Phone no.	02532570106																		
Mobile no.	9823741641																		
Registered Email	iqac@ges-coengg.org																		
Alternate Email	gajanan.dhole@ges-coengg.org																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	https://ges-coengg.org/aqarreports/																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	https://ges-coengg.org/academic-calendar/																		
5. Accrediation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B++</td> <td>2.94</td> <td>2019</td> <td>01-Jun-2019</td> <td>30-Apr-2024</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B++	2.94	2019	01-Jun-2019	30-Apr-2024
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	B++	2.94	2019	01-Jun-2019	30-Apr-2024														
6. Date of Establishment of IQAC	15-Sep-2018																		
7. Internal Quality Assurance System																			
<table border="1"> <thead> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by IQAC</th> <th>Date & Duration</th> <th>Number of participants/ beneficiaries</th> </tr> </thead> <tbody> <tr> <td colspan="3"> </td> </tr> </tbody> </table>						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								
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Submission of AQAR	15-Jun-2020 01	1
Project Exhibition	18-Feb-2020 01	46
Quality Audit by NBA Peer Team	20-Dec-2019 03	390
One day training programme on	21-Sep-2019 01	48
View File		

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
GESCOER&MS/COMP UTER ENGG./	ASPIRE	SPPU, PUNE	2019 360	270000
GESCOERM&S/ELECTRICAL ENGINEERING	QIP	SPPU, PUNE	2019 02	200000
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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 :

3

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)

Application for NBA Accreditation of Department of Electrical Engineering

Outcome based education started through various administrative processes

[View File](#)

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
Outcome Based Education Initiation	OBE based education initiated at institute level through various internal assessment tools
Application for NBA Accreditation	NBA peer team visited the Department of Electrical Engineering and provided the guidance for quality improvement
Skill development programmes	Seventten Programmes conducted at institute level
Project Exhibition	I-RISE project exhibition conducted and groups from various institutions participated
Industrial Training	Industrial training conducted sucessfully for student and faculties
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
College Development Committee	21-Sep-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

21-Dec-2019

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

15-Jan-2020

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)

It is systematic designed to organize information related to management of educational development. It is responsible for promotion and use of information for policy planning and

implementation. Institute has developed 1.Academic ERP(Students data and attendance) 2. financial ERP 3. Library Automation system. In academics attendance monitoring, continuous assessments are performed. Time table for academics, extra curricular activities, examinations etc are performed effectively in academic ERP. Institute fees , other fees, hostel fees , scholarship record, examination record, activity records involving finance are monitored in finance ERP. Library automation with SOUL 2.0 is effectively caters the needs of students and staff members. Thus MIS is implemented to perform the essential activities and help to cater our needs.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Institute is affiliated to Savitribai Phule Pune University, thus, we thoroughly follow the syllabus laid down by the University. The Institute follows curriculum and adheres to academic calendar prescribed by the esteemed University. The Institution ensures effective curriculum delivery through a well-planned and documented academic policy. The subject distribution takes place before the commencement of the semester. The subject allocation is scrutinized depending upon the area of expertise of the respective teachers. Department wise academic calendar, class time table, individual time table, lab time table, lab utilization and activity calendar are prepared. For each course, its pre-requisites, concepts and learning objectives are clearly stated, based on which the teaching plan is prepared. Faculty maintains course file which contain the information like department academic calendar, individual time table, syllabus, course objective and outcome, teaching plan, lecture notes, experimental write-ups, assignments/tutorials, question banks and university question papers. Staffs also prepare e-material like PowerPoint presentations, e notes, etc. In semester exams are conducted as prescribed by the University. The academic performance of students is continuously monitored by class tests,assignments and oral evaluations along with result analysis of Online and In-semester examinations. The appropriate remedial measures are initiated for the students having poor performance in these evaluations. Monthly attendance record is prepared by the class coordinator and further brought into notice of the students and their parents via an e-attendance system. A local Teacher-Guardian scheme addresses the students grievances related to teaching-learning as well as personal issues. Additional workshops, seminars and lectures are organized to broaden the horizon for cognitive thinking (research, problem solving approach, live problem handling, etc.) CO-PO-PSO mapping is computed by each staff member for the respective subjects. ISO audit is conducted very semester to evaluate and ensure smooth academic functioning in the department. Course wise feedback is taken from students. Individual course feedback is collected though an online portal, where each student has to give course wise feedback. The feedback is analyzed by the Head

of Department and corrective actions are taken accordingly. The effective implementation of curriculum is ensured by supplementing classroom teaching with expert lectures, seminars, mini projects, in-house and industry supported projects, industry visits, industrial internships, hands-on-sessions, tutorials, case studies, e-learning, NPTEL lectures, assignments, internal-tests etc. Students at both UG and PG levels are provided numerous opportunities for innovation via Internships, projects, undergraduate research, independent study courses, online courses etc. After conclusion of teaching, final assessment of the term-work is done and marks are submitted to the University.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Workshop on introductory GIS and RS with hands on training of GIS software hands on Total Station	NA	05/10/2019	5	Employability	YES
Workshop on Raspberry Pi	NA	13/07/2019	5	Employability	YES
Workshop on Arduino	NA	27/08/2019	5	Employability	YES
Workshop on PCB Design	NA	27/08/2019	5	Employability	YES
Design and Manufacturing of Job for Transition Fit	NA	23/07/2019	5	Employability	YES
ZENSAR ESD on SQL ,Soft Skill	NA	06/06/2019	5	Employability	YES
Workshop on Angular JS	NA	07/06/2019	5	Employability	YES
Workshop on Core Java	NA	07/06/2019	5	Employability	YES
Workshop on Web Technologies	NA	23/09/2020	5	Employability	YES
Workshop on JSP-Servlet	NA	07/10/2019	5	Employability	YES
Python	NA	06/01/2020	5	Employability	YES

Workshop					ity	
ZENSAR ESD	NA	03/02/2020	5	Employabil	ity	YES
ZENSAR ESD	NA	10/02/2020	5	Employabil	ity	YES
Employabil ity Skills Development : Technical and Aptitude training Program	NA	11/02/2020	5	Employabil	ity	YES
Two Days Workshop on Computer Networks	NA	04/10/2019	5	Employabil	ity	YES
One Week Training Program on Web Technologies	NA	23/09/2019	5	Employabil	ity	YES
Renewable Energy systems: Design and Challanges	NA	09/08/2019	5	Employabil	ity	YES
Career in BIM	NA	23/09/2019	5	Employabil	ity	YES
Guest Lecture on Remote Sensing	NA	11/07/2019	5	Employabil	ity	YES
Guest Lecture on Study abroad	NA	25/01/2020	6	Employabil	ity	YES
Career opp ortunities in IT and Media	NA	07/03/2020	5	Employabil	ity	YES
REDX AI CLUB	NA	27/07/2019	4	Employabil	ity	YES
Mahindra Pride classroom- soft skill course	NA	16/09/2019	6	Employabil	ity	YES
Seminar on Future Automation	NA	08/02/2020	5	Employabil	ity	YES
Seminar on Education in Abroad	NA	31/01/2020	5	Employabil	ity	YES

Seminar on Employability Digital Marketing	NA	24/01/2020	5	Employability	YES
ESD program on The Base Camp Program	NA	18/01/2020	6	Employability	YES
Seminar on E waste Management	NA	10/01/2020	4	Employability	YES
Seminar on Bridge between Industry Institute and DIPEX	NA	05/10/2019	5	Employability	YES
Seminar on Application of Electromagnetics	NA	03/09/2019	6	Employability	YES
Seminar on Aptitude Group Discussion	NA	01/10/2019	5	Employability	YES
Seminar on Security Privacy over Internet	NA	28/09/2019	5	Employability	YES

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
ME	NIL	02/07/2019
BE	NIL	15/06/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Engineering	18/06/2019
BE	Civil Engineering	18/06/2019
BE	Mechanical Engineering	18/06/2019
BE	Electrical Engineering	18/06/2019
BE	Electronics and Telecommunication Engineering	18/06/2019
ME	Computer Engineering	18/06/2019
ME	Mechanical Design	18/06/2019

	Engineering	
ME	Digital systems	18/06/2019
ME	Power Electronics and Drives	18/06/2019
MCA	Computer Application	18/06/2019

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

	Certificate	Diploma Course
Number of Students	580	Nil

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
Data privacy and security tool	01/12/2019	45
Mahindra Skill Enhancement Training Program	16/09/2019	29
ZENSAR ESD on SQL ,Soft Skill	06/06/2019	45
Workshop on Anguar JS	07/06/2019	40
Workshop on Core Java	07/06/2019	25
Workshop on Web Technologies	23/09/2019	45
Python Workshop	23/09/2019	90
Workshop on introductory GIS and RS with hands on training of GIS software hands on Total Station	05/10/2019	58
Workshop on Raspberry Pi	13/07/2019	36
Workshop on Arduino	27/08/2019	50
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Computer Engineering	283
BE	Civil Engineering	46
BE	Electronics and Telecommunication Engineering	41
BE	Electrical Engineering	130
BE	Mechanical Engineering	125
MCA	Computer Application	29
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

Action taken Report on Feedback from Stakeholders Effective feedback, both positive and negative, is very helpful. Feedback is valuable information that will be used to make important decisions. Our Institute collects timely feedback from the stakeholders. Our management and staff is vigilant and receptive at various levels of interactions with Industry experts, namely, CSI meets, Project competitions, Project exhibition I-Rise activity, etc. The Head of Institute and Head of Department keep assimilating feedback through verbal communication and informal meets as well. The feedback collected from the stakeholders is meticulously analyzed and actions are taken accordingly. The major areas of concern dealt with the gap between the Industry and Institute. Most of the employers stated that the problem analysis and problem solving skill of the students need to be enhanced. Our college has started with a novel project titled "Industry Institute Interaction". The students of our college spend some days with Industry to enhance their analytical skills and contribute to the industry meaningfully. This activity improves the students with problem identification, analysis of the problem, technical solution with alternative options, execution and support. The students go through the problem solving cycle which helps the students to become industry ready. The placement of the students is improved as the students are well acquainted with the Industry requirements and also have hands on working experience. The students are trained on the latest technologies and current Industry requirements. Seminars and workshops regarding the same are conducted. Guest lecturers from Industries are also invited for expert lectures. Computer department and MCA (Engineering) department has conducted seminars on Python, Android, Mobile computing, etc. Our college is a training centre for Zensar, where many of our students are placed. Expert lecture from TCS was conducted to give the students an exposure on "Digital Impact Square Innovation Channel". Students were given an exposure to Open Source Software. Cyber crime awareness session was conducted for students. All these activities helped to bridge the gap between Industry and Institute. The efforts bore fruits with increased number of placements. On interacting with parents and students at graduation level, it was discovered that the awareness regarding MCA (Engineering) course is lacking. The department conducted a campaigning activity to increase the awareness and convey the importance of the course to the parents and students. The employer feedback had major scope for improvement with respect to soft skills and communication skills. To address this issue, the department conducted Departmental activity which helped the students with reading skill, writing skill, communication skill, etc. Group discussions and aptitude test were conducted to prepare students to face interviews. Various other activities were conducted to build the confidence amongst the students. Technical sessions on PHP, Android, Apple technologies, etc were conducted by the department to help our students to be strikingly ahead from the peer competitors. For Electronics and Telecommunication department, the employer stated the requirement for PLC knowledge. The theoretical subject is covered in the BE syllabus, however, the

syllabus does not consist of any experiments.

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
MCA	Computer Applications	60	23	23
ME	Mechanical Design Engineering	24	4	4
ME	Power Electronics and Drives	24	11	11
ME	Digital Systems	24	5	5
ME	Computer Engineering	24	6	6
BE	Mechanical Engineering	120	19	19
BE	Computer Engineering	120	120	120
BE	Civil Engineering	60	36	36
BE	Electrical Engineering	120	26	26
BE	Electronics and Telecommunication Engineering	60	24	24
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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
2019	1791	131	92	12	26

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used

104	104	14	33	Nil	14
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)

Mentoring students is an interactive system involving student to address common student concerns ranging from anxiety, stress, fear, home sickness and a slew of other academic worries. It is a process of developing relationship between teachers, and students aiming at comprehensive development of students. Mentoring helps in carving an individual's beliefs and values in a positive way. There are many benefits of mentorship in student development that includes communication, interpersonal relationship, and motivating students for extracurricular activity. Counseling the students the activity carried out to prepare the students to face the real time challenges in the lives to handle isolation, anxiety, depression and other health problems. Institute has effective and efficient system for overall development of students. It ensures development of students in academics, co-curricular and extra-curricular activities with the help of students associations and student's chapters. Institute has mentoring system, where there is one teacher mentor for approximately twenty students. A faculty continues to act as a mentor, till the student completes his/her program. Mentor looks after mentees for academics as well as overall development. The coordinators (mentoring) at department level and first year to assist the head of department in smooth operation of mentoring by all teachers. Departmental Mentor coordinator distributes the hard copy of required formats to the department mentors. The mentee meets the mentors once in a fortnight and the observations about mentee viz. achievements, doubts, fears, grievances etc. are recorded. Based on which, the student is counseled in the necessary areas/ issues where he/she needs mentoring. Depending on the severity of issues of mentee, he/she is forwarded to Head of the department. The timely and extensive implementation of mentoring generates healthy interaction between students, parents and teachers and results in less student grievances. The Mentoring activity at the institute helping the students for overall comprehensive development. Through counseling, individual can explore alternatives, build on individual strengths and develop new skills. With sensitive and caring feedback, individual will gain new awareness and learn to deal with challenges in new and productive ways. During pandemic online mentoring was done.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1791	104	17.22

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
124	104	21	Nil	21

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
2019	Dr. Prafulla C. Kulkarni	Principal	Member Board of Studies K.K.W.I.E.R (Autonomous Institute Pune University)
2019	Dr. Prafulla C. Kulkarni	Principal	Membership of Confederation of Indian Industries

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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
BE	518124510	7	22/10/2020	11/11/2020
BE	518119110	7	22/10/2020	11/11/2020
BE	518161210	7	22/10/2020	11/11/2020
BE	518129310	7	22/10/2020	11/11/2020
BE	518137210	7	22/10/2020	11/11/2020
MCA	518124110	6	21/09/2020	11/11/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Institute reforms in Continuous Internal Evaluation system (CIE) are made in line with the Savitribai phule pune university reforms. Reforms in CIE update the students with upto-date trends in technology to meet global standards and the need of the industry and society. The evaluation process is reformed time to time in order to fill the gaps in attainment of Program outcomes. SPPU revised syllabus in 2015 and introduced online examinations as reform in CIE for FE(first year), SE(second year) and In-Semester examinations for TE(third year) and BE(final year) students. In 2017 the amendments are made and Insemester exams are introduced for SE also. SPPU had revised the evaluation scheme in Year 2015 and credit based evaluation system was implemented as per directions given by UGC. In PG courses reforms of SPPU are included in internal assessment. In ME 2013 Pattern for theory Subjects (courses) 50 marks internal assessment was introduced and external assessment of 50 marks in end semester examination. Choice based credit system is introduced. All PG Courses follows different mode of in semester assessment and also variety of techniques prescribed by university guidelines. Additional measures for reforms in CIE taken at the institute level are as follows: 1. PBL is practiced to impart with our mission "value embedding for quality technical education" and projects continuous assessment is done by the concern project guide and another staff member as a reviewer, the students meet the guide according to schedule i.e. monthly and project diary is maintained. As per the requirement every department has developed its process for project evaluation. 2. The T.E/B.E. Projects are evaluated by industry experts, and they provide inputs to the Students. 3. As revision to CIE, Practical/online Mock tests are conducted. Assignments/Class tests are also conducted as a part of CIE. 4. Before 2017 departments were following different CIE methods. To maintain quality of the practical assessment a progressive record of practical (Term work) is implemented. It is revised from 2017 uniform term work assessment is done in all departments. Term work marks are allotted by maintaining Continuous Assessment Sheet (CAS) by each teacher to evaluate performance of students during practical sessions. In this assessment Experiment wise record of marks is maintained in practical assessment report. Each experiment is assessed for 10 Marks in which Attendance is having 3 Marks, Performance of Practical 4 Marks and Journal completion and writing for 3 Marks. The Computer engineering department follows guideline for CAS given by BOS computer engineering. Assessment was done online during the Pandemic period 5. A mini- project, Seminars also follows CIE. Presentations are taken in semester to evaluate student's performance before final exams. 6. The aptitude test is introduced as part of CIE. The departments conduct aptitude tests to satisfy the needs for

campus selection. In some departments, online examination system is used for the same. 7. For M.E. courses Electrical engineering and Electronics departments has made Post graduate student's Publication desirable from 2016. 8. Project poster presentations are desirable for M.E. Mechanical Engineering.

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

Academic year starts as per academic calendar prescribed by Savitribai Phule Pune University (SPPU). Institute adheres to the academic calendar of SPPU. The Principal prepares academic calendar for the institute in line with University academic calendar before the commencement of the semester. 1. Departmental academic calendar is prepared by the Head of Department before the commencement of the semester. The calendar outlines schedule for semester class work, class test, in semester examination, external examination, university online schedules, conclusion of Theory/practical/Teamwork and extracurricular and cocurricular activities. 2. The faculty members prepare the lesson plan before the commencement of semester according to academic calendar. Teaching plan presents the topics to be covered lecture wise it is approved by the head of the department. 3. Practical Continuous assessment system is implemented for assessment of laboratory work. The assessment is done on the continuous basis of as experiments are performed. The syllabus coverage report is compiled on monthly basis for theory and practical. If things are found to be lagging with reference to academic calendar, corrective efforts for compensating the losses are made. 4. The performance of the students is also assessed on a continuous basis by conducting Unit tests (by institute) and in-semester examination (question paper provided by University and evaluated by internal staff) according to academic calendar. 5. The continuous assessment of projects is done by the concern project guide and a committee member as a reviewer, the students meet the guide and reviewer according to schedule and diary is maintained. 6. In addition mock tests are also conducted the part of Continuous Internal Evaluation.

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://ges-coengg.org/program-outcomes/>

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
518119110	BE	Civil Engineering	77	77	100
518129310	BE	Electrical Engineering	122	119	97.54
518124510	BE	Computer Engineering	145	144	99.31
518161210	BE	Mechanical Engineering	125	124	99.20
518137210	BE	Electronics and Telecommunication	63	62	98.41

518190410	ME	Mechanical Design Engineering	7	7	100
518190210	ME	Power Electronics and Drives	1	1	100
518134810	ME	Digital Systems	1	1	100
518124510	ME	Computer Engineering	7	7	100
518124110	MCA	Computer Applications	29	29	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://ges-coengg.org/students-satisfaction-survey/>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Projects sponsored by the University	730	Savitribai Phule Pune University	270000	135000
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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Energy storage systems: Design and Challenges	Electrical	24/01/2020
PPAP	Mechanical	07/06/2019
Maintenance, Management and Philosophy	Mechanical	13/07/2019
Aircraft Maintenance	Mechanical	20/07/2019
Quality in Manufacturing Industry	Mechanical	27/07/2019
Real time problem solving by Simulation	Mechanical	10/02/2020
Opportunities for Engineers in Oil and G P Sector	Mechanical	07/02/2020
Career opportunities in IT and Media	MCA	07/03/2020

REDX AI CLUB	MCA	27/07/2019
Mahindra Pride classroom- soft skill course	MCA	16/09/2019
Seminar on Machine Learning IOT	ETC	07/06/2019
Workshop on Raspberry Pi	ETC	13/07/2019
Seminar on Space Technology its applications Part 1	ETC	03/08/2019
Workshop on Arduino	ETC	27/08/2019
Workshop on PCB Design	ETC	30/08/2019
Seminar on Solar Ambassador	ETC	13/09/2019
Seminar on NITA Excellence Centre	ETC	26/09/2019
Seminar on Security Privacy over Internet	ETC	28/09/2019
Seminar on Aptitude Group Discussion	ETC	01/10/2019
Seminar on Application of Electromagnetics	ETC	03/09/2019
Seminar on Bridge between Industry Institue and DIPEX	ETC	05/10/2019
Seminar on E waste Management	ETC	10/01/2020
ESD program on The Base Camp Program	ETC	18/01/2020
Seminar on Employability Digital Marketing	ETC	24/01/2020
Seminar on Education in Abroad	ETC	31/01/2020
Seminar on Future Automation	ETC	08/02/2020
Renewable Energy systems: Design and Challanges	Electrical	09/08/2019
Career in BIM	Civil	23/09/2019
Guest Lecture on Remote Sensing	Civil	11/07/2019
Guest Lecture on Study abroad	Civil	25/01/2020
Technical Training Program on CORE JAVA	Computer	07/06/2019
Technical Training Program on ANGULAR JS	Computer	07/06/2019
ZENSAR ESD	Computer	06/06/2019

One Week Training Program on Web Technologies	Computer	23/09/2019
Two Days Workshop on Computer Networks	Computer	04/10/2019
ZENSAR ESD	Computer	03/02/2020
ZENSAR ESD	Computer	10/02/2020
Employability Skills Development : Technical and Aptitude training Program	Computer	11/02/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NIL	NIL	NIL	01/12/2020	NIL
View File				

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	15/06/2019
View File					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	1

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

Name of the Department	Number of PhD's Awarded
NIL	Nil

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Electrical	1	1
International	Computer	Nil	00
International	Civil	1	1
International	E and TC	2	2
International	MCA	1	00
International	Mecahnical	1	1.73
View File			

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Mechanical	2
MCA	Nil

E and TC	1
Civil	4
Computer	Nil
Electrical	1
View File	

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Novel Approach for sensitive inter-turn fault detection in induction motor under various operating conditons	D.M.Sonje	Arabian journal for science and Engine ering. (Springer publisher)	2019	2	Assistant Professor	22
View File						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Retrofit ting of Concrete Specimen Using Carbon Fibre	Pendhari A.R.	Internat ional Conference of Rehabil itation And Retrof itting of Structures	2019	3	10	Assistant Professor
Numerical Analysis of Lifted Spray Flames in various Coflow conditions	Dr. Nehe P.B.	Elsevier journal of Combustion Science and Technology	2019	3	39	Associate Professor
Microwave Oscillator For High	Surendra Rakshit	Global Journal of Electrical Computer E	2019	1	5	Assistant Professor

Volume Data Commu- nication: A Review		ngineering				
Data Aug- mentation using MG- GAN for improved cancer cla- ssificatio- n on gene expression data	Poonam Chaudhari	Soft Computing 2019 3 20 Assistant Professor	2019	3	20	Assistant Professor
Data Aug- mentation for cancer classifica- tion in on cogenomics : an Improved KNN based Approach	P. Chaudhari	Evolutio- nary Intel- ligence	2019	3	3	Assistant Professor
View File						

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

Number of Faculty	International	National	State	Local
Attended/Semi- nars/Workshops	1	13	Nill	Nill
Presented papers	6	1	4	20
Resource persons	1	1	1	4
View File				

3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Tree Plantation on the occasion of 85th Birthday of Sir Dr. M. S. Gosavi, Secretary, GES	NSS Team of College	50	10
A Guest lecture on AIDS AWARENESS	Mr. Dattatray Aher -NSS	140	10
Ganesh Murti Collection Activity	Swapnapurti Foundation, NSS Team of College	50	4

	Nashik Municipal Corporation		
Blood Donation Camp	Arpan Blood Bank NSS Team of College	22	200
Guest lecture on Swami Vivekanand's memorable lecture	Swami Sunil Maharaj Prashant Lele NSS Team of College	95	15
Drama on Mahatma Gandhi	NSS Team of College	90	10
Guest lecture on Constitution of India	Dr. Sandip Bhanose	130	20
Walkathon 2020	RTO Nashik, District administration, Womens organization, Medical organization, Blind Crippled organization and national service scheme of our college	65	5
ELearning HIV/AIDS Education	I-TECH India and Maharashtra State AIDS Control Society (MSACS)	50	2
Guest Lecture on Youth Vision for New India	NSS Team of NDMVP's KTHM College and SPPU Subcenter, Nashik	50	750
View File			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Blood Donation Camp	1. Appreciation Certificate 2. Frame	Arpan Blood Bank	200
NSS Special Camp	Appreciation Certificate	Grampanchayat, Matori	50
View File			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharat	Swapnapurti	Ganesh Murti	4	50

	Foundation Nashik Municipal Corporation	Collection		
Blood Donation Programme	Arpan Blood Bank, Nashik	Blood Donation Camp	22	200
Social Awareness, Women Empowerment	RTO Nashik, District administration, Womens organization, Medical organization, Blind Crippled organization	Walkathon 2020	5	65
Ayush Bharat	I-TECH India and Maharashtra State AIDS Control Society(MSACS)	ELearning HIV/AIDS Education	2	50
View File				

3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
PhD	S. K. Mahajan	Paid Leave	180
PhD	V. C. Kale	Paid Leave	180
View File			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Full Time	Internship	Maxdigi Solution Pvt.Ltd	01/01/2020	20/06/2020	3
Full Time	Internship	Nanostuffs technologies pvt.ltd.	01/01/2020	20/06/2020	2
Full Time	Internship	Logique Technology	01/01/2020	20/06/2020	2
Full Time	Internship	Trixware Technologies	01/01/2020	20/06/2020	2
Full Time	Internship	Infynity Global associate pvt ltd	01/01/2020	20/06/2020	1

Full Time	Internship	Technokraft training and solutions pvt. ltd	01/01/2020	20/06/2020	2
Full Time	Internship	Netflyer Technologies	01/01/2020	20/06/2020	1
Full Time	Internship	Solace infotech pvt ltd	01/01/2020	20/06/2020	4
Full Time	Internship	Nelsoft Technologies	01/01/2020	20/06/2020	2
Full Time	Internship	NTech Solution	01/01/2020	20/06/2020	3
View File					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Albedo Foundation Consultants and Trainers in GIS and Remote Sensing, Flat No. 1, Prabhu Prasad Soc., Behind BYK College, College Road, Nashik-05	07/08/2019	1.Remote Sensing, 2.GIS, and Surveying	58
Mahatma Gandhi Vidya Mandir, Arts, Science and Commerce College, Department of B-vocation, Manmad	11/11/2019	1.Exchange of students 2.Joint Teaching Activities 3.Joint research activities 4.Visit by exchange of scholars, teachers, staff 5.Joint activities for organizing Campus Interviews 6.Conduct Workshops and Seminars	3
Quick Heal Foundation	01/04/2019	1.Online Courses, 2.Earn and Learn activities, 3.Faculty development progrm, 4.web portal	33
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
85	136.38

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SOUL 2.0	Partially	2.0.14	2013

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	16935	7289281	880	324881	17815	7614162
Reference Books	1418	1438799	39	27816	1457	1466615
e-Books	3780	574500	42	113301	3822	687801
Journals	91	174733	93	175290	184	350023
Digital Database	Nill	Nill	Nill	Nill	Nill	Nill
CD & Video	1054	Nill	11	Nill	1065	Nill
Library Automation	1	Nill	Nill	Nill	1	Nill
Weeding (hard & soft)	Nill	Nill	Nill	Nill	Nill	Nill

Others(s pecify)	Nil	Nil	Nil	Nil	Nil	Nil
View File						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	28/11/2020
View File			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departme nts	Available Bandwid h (MBPS/ GBPS)	Others
Existin g	675	51	124	300	1	60	6	124	0
Added	0	0	0	50	0	0	0	0	0
Total	675	51	124	350	1	60	6	124	0

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

124 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
Nil	https://ges-coengg.org/criteria-4-4-3-3-aqar-2019-20/

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
80	131.78	99.5	136.38

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

<p>The institute adopts the established systems and procedure for maintaining and utilizing physical, academic and support facilities. • The Institute outsources the maintenance of the infrastructure facility like campus premises, elevator, water cooling/purification system, housekeeping to external agencies. • Repair and maintenance of civil work are done based on the requirement and complaints received from individual departments. • IT related issues are maintained and rectified in-house and if it is related to hardware, sent those to the external agencies. • The equipment of the laboratories is supervised by</p>
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respective Lab In-charge and if any issues related to equipment are forwarded to the Head of the Department for further action. The movement register is also maintained for the movement of equipment for project work if any. • A budget is allocated to the respective department for maintaining and purchasing of the equipment. • The housekeeping work of laboratories, classrooms, library, and institute are taken care by an external agency. • The gardening of premises is assigned to the external agency by the Society. • The external agency is appointed by the Institute for the security purpose. • The CCTV has been installed at all prominent location such as parking, entrance gate, corridor, laboratories, classrooms, canteen, and office and more importantly at Examination centre. • The EPABX system and Programmable Bell System are installed and maintained by the Electronics and Telecommunication department. • The renewal licenses and technical support for various software like Hyper Works, Unigraphics, DSpace, ANSYS MAXWELL, Automation Studio etc done on yearly basis for getting updates/patches. • The calibrations of the equipment/instruments are done on regular basis by the concerned supplier or company. • A fire extinguisher is refilled and checked before the due date of expiry. And training for how to use firefighting equipment in an emergency is also given. • Emergency exits and fire fighting system are provided for any kind of natural or man-made disasters. • AMC is deployed for lift, generator etc. • RO and purifier system situated on the terrace for drinking water. • The Institute also has electricity backup with diesel generators. • All computer laboratories are having uninterrupted power supply with a rate ranging from 2 KVA – 16 KVA. Considering the need of an hour for the non-conventional energy sources, the college is equipped with PV Solar system with 30 KW 10 KW. • The minor repairing and fabrication of furniture items, metal fixture and electrical issues are handled by the designated person from the respective department as on required. • The Library has a spacious hall for reading along with separate digital room to access e-journals and other e-resources and at the same time, they are available from any networked computer in the institute. • The sports facilities are monitored by our physical director and he also ensures that these facilities are made available to all the students

<https://ges-coengg.org/criteria-4-aqar-2019-20/>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Nil	0	0
Financial Support from Other Sources			
a) National	Scholarship/Freeship/EBC	1596	46621042
b) International	Nil	Nil	0
View File			

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 implemetation	Number of students enrolled	Agencies involved
Fundamental concepts in analysis of	16/09/2019	72	Prof.M.M.Thombre,

structure			
FUEL Aptitude Championship for Indian Youth	13/01/2020	107	FUEL - Friends Union For Energising Lives,Pune
soft skill course	16/09/2019	29	Mahindra Pride classroom
Remedial Coaching	19/07/2019	40	Class Teacher, Academic Coordinator, Subject Teacher
Workshop on Arduino	27/08/2019	50	Mr. R. J. Shimpi Team 7620521919
Industrial Visit 132 KVA Substation	16/10/2019	110	Mr. Malwe MSETCL
Mentor Mentee	19/08/2019	1815	All Dept.
Expert talk on "Human Psychology and Mind Power"(Meditation)	29/07/2019	85	Dr. JyotiUgale MBBS, MD Psychiatrist, Nashik
ZENSAR ESD (Core Java)	30/12/2019	39	ZENSAR ESD
Workshop on Renewable Energy Systems Design Challenges	09/08/2019	48	Dr. B. E. Kushare 9420906281
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Expert lecture seminar	115	107	Nil	93
2019	Expert lecture & seminar	45	62	Nil	51
2019	Expert lecture & seminar	102	110	Nil	58
2019	Expert lecture & seminar	108	111	Nil	84
2019	Expert lecture & seminar	40	42	Nil	Nil

2019	Expert lecture & seminar	25	22	Nil	14
View File					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

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

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
26	1583	272	05	40	28
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	8	B.E	Electrical	GES's R. H. Sapat CoE, Nashik	M.E.
2019	1	B.E	Electrical	Neville Wadia College, Mumbai	MBA
2019	1	B. E.	Electrical	Royal Melbourne Institute of Technology, Melbourne	MS
2019	1	B.E	Electrical	University of South Australia, Adelaide	MS
2019	1	B.E.	Electrical	University of Technology, Sydney	MS
2019	2	B.E.	Computer	GES's R. H. Sapat CoE, Nashik	M.E
2019	1	B.E.	E & TC	K. K. Wagh Institute of Engineering and Research	MBA

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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
GATE	3
GRE	7
TOFEL	1
Any Other	4
View File	

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

Activity	Level	Number of Participants
SPPU Inter Zonal Chess (M/W) Tournament 4	State Level	28
9th Gokhale T- 20 Cricket Inter Engg. College Invitational Tournament 4	District Level	128
Cricket (Men) 4	Inter Department Competition	187
Box Cricket (Women) 4	Inter Department Competition	55
Volleyball (Men) 4	Inter Department Competition	18
Dodge Ball (Women) 4	Inter Department Competition	36
Badminton Singles (Men) 4	Inter Department Competition	9
Badminton Doubles (Men) 4	Inter Department Competition	10
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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
2019	Gold Medal at West Zone Inter University Badminton Tournament	National	1	Nil	17558	Mr. Aditya Mhatre
View File						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of

the institution (maximum 500 words)

The aim of forming Student Council is to involve the students in academic, co-curricular extracurricular activities. Through these activities Student Council members learn planning, organization, analysis, estimation and execution along with trouble shooting, which help in their comprehensive development. From each class of all departments, class representatives are selected. Amongst all class representatives, election of General Secretary is done by confidential voting process. The student having second number of vote is to be selected as a cultural secretary. The student council is supervised by a committee of faculty members headed by the Principal of the college. The student council is sub-divided into committees such as Student Grievance, Anti-Ragging, Cultural, Sports, Technical events, NSS and Professional student's chapters. Following is the narrative of functions and events conducted by various Committees: 1. Students' Council: Under section 40(3) of Maharashtra Universities act, 1994, this council is established every year in the Institute and it performs its duties prescribed. 2. Student Grievance: This committee addresses student grievances and maintains harmony and discipline among the students. 3. Anti-Ragging: This committee ensures zero ragging incidents in the Institute and also spreads awareness among students against any type of ragging activities. 4. Cultural: This committee co-ordinates various cultural activities and events throughout the year. "Resonance" is annual social gathering which showcases cultural talent of students. 5. Sport: This Committee organizes "Gokhale Premiere league-GPL" inter engineering college invitational T20 cricket tournament. Our students actively participate in various sports in intercollegiate, interuniversity, state, national and International level. 6. Magazine: 'Resonance' is our annual magazine based on theme published by Magazine committee. Students express their talent in the form of articles, poetry, interviews of eminent personalities etc. This exercise imbibes societal values in students. 7. Technical Activities: Every Department is having active Student's chapters run by the students. These chapters conduct various programs such as Expert lectures Industrial visits etc. Inter society "Project Competition" known as "I-Rise", is organized during Annual Social gathering event "Resonance". Institute organizes technical events in which each department participates and conducts the event like ASHWAMECH, ELECTROSPARX, ANVIT, IGNITRA, G-ESTRONICA INNOVISION etc. The various technical competitions such as Paper Presentation, Technical Quiz, Treasure hunt, Bridge Model Making, Lathe war, Bike Mania, CAD War, Poster Presentation, Counter Strike, Blind coding, etc are conducted. These events are organized to motivate the students to take enhance their technical ability. The students are also taking participation in national and international technical programs such as BAJA, SUPRA etc. 8. Extension Activities: Any education is incomplete without social awareness. "NSS Committee" is active in carrying out different activities such as Blood donation Camp, Swachha Bharat Abhiyan, Yoga day, Tree plantation, collection of Ganesha idol on Ganapativisarjan etc. "NSS Committee" also organizes residential winter camp known as "SHRAMSANSKAR" in rural area to enhance social awareness and personality development of students. In this camp, students perform Swachha Gram Abhiyan, Public awareness program like Pathnatya, Prabhatpheri etc. to educate the students from rural areas.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

0

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

1

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)

Institute continued with decentralization practices and participative management at various levels described as follows. Institute has vision and mission which are futuristic in nature. They satisfy the needs of society through participation of each one in the process. The governance comprising of Governing Body (GB), Local Management Committee (LMC) now termed as College Development Committee (CDC) and Internal Quality Assurance Cell (IQAC) plays significant role in the evolutionary reforms towards positioning the Institute in the preferred list of all stakeholders. The Institute believes in promoting a culture of delegation of powers through strategic policies. The Principal of Institute is assisted by HODs, Section in-charges and coordinators of various cells/committees in decision making process of the Institute. Faculty and staff are assigned with the roles and responsibility to work in a harmonious environment with complete transparency. IQAC has a well developed process to ensure quality benchmarks of academic and administrative activities. The Institute maintained the culture of retention of Faculty and hence has an edge of senior and dedicated Faculty for realizing its Vision. Based on the Vision and Mission of the Institution, Quality Policies are framed and driven by the needs of the corporate world, society and stakeholders. Institute is an ISO certified and NAAC Accredited. Deployment of the quality policy is done by providing requisite academic infrastructure, learning environment and harmonious work culture.

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
Curriculum Development	The Institute follows the educational program affirmed by Savitribai Phule Pune University (SPPU). Employees add to different groups of the college, for example, Board of Studies (BOS) and Subject Chairmen who contribute in encircling of schedule consistently. The establishment empowers and gives offices to each workforce to effectively partake in the FDPs, gatherings led by Board of Studies (BoS) at SPPU college level. The organization has adequately advanced powerful industry establishment association to distinguish current industry patterns/prerequisites and

	attempted to fulfill by directing courses or preparing programs.
Teaching and Learning	<p>All the Departments of the Institute set up the scholastic schedule in line with the SPPU scholarly schedule. The employees set up their showing plan for ideal conduction of talks and practicals. The Head of the Department screen the powerful execution of showing plan and adherence to scholarly schedule. Scholastic facilitator of the division screens the showing learning measure. Slow students and Fast students are identified by different exercises and resources takes vital activities to engage them. Conduction of talks and practicals according to the time table ,arrangement of the rundown of defaulters whose participation is less, conduction of additional classes for the defaulters,coverage of the educational program according to the syllabus,continuous appraisal (CAS) of the practicals,conduction of undertaking and workshop introductions, conduction of the unit tests according to the arrangement , examination of test outcomes and tasks are intermittently evaluated by the HOD and scholarly facilitator.</p>
Examination and Evaluation	<p>For theory courses, the appraisal is completed by Online Examination (for FE/SE) InSem Examination (for TE/BE) as an interior assessment of 50 and 30 stamps separately. The End Semester Examination of 50 (for FE/SE) and 70 (for TE/BE) marks does the last appraisal of each course. Since the InSem test for FE/SE is online, the evaluation is PC based, though the appraisal of TE/BE InSem test is done at CAP focus at school level.The Lab Practice, Project, instructional exercises, Seminar and Term Work is consistent appraisal dependent on work done, participation, comprehension and accommodation of work as report/diary.</p> <p>It is screen and evaluation by the subject instructor. Toward the finish of the semester, Practical/Oral/Presentation is to be led and evaluated together by inside and outside analyst designated by college. In every semester evaluation is completed with unit test dependent on units for Theory and Mock reasonable</p>

	test for Practicals.
Research and Development	Faculties are encouraged to apply for research grants by government bodies for their projects and also publish research papers in National/International Journal and conferences. Facility is provided for faculties and students to do their research work.
Library, ICT and Physical Infrastructure / Instrumentation	Library is using SOUL 2.0 Integrated Library Management System software for Library Automation. Library website http://210.212.181.85/webopac/home.html and Intranet based: http://192.168.0.251/webopac/ (Access within college campus). Digital library and Wi-Fi system is available in library for utilization of e-resources. Institute has well equipped with class rooms, tutorial rooms, computer centre, workshop, sports and gymnasium center, fire fighting system, parking, etc.
Human Resource Management	Employee promotion policy presents our rules for progressing and advancing representatives of our Institute. We want to invest in our employees and reward those who perform well. Staff necessities are acquired from all Heads of Department and assessed by the Principal Approval is taken from the administration Advertisement in driving papers and Institute site. Meetings are directed by Local Staff Section Committee/UGC Committee. The staff individuals are urged to direct/go to FDPs/Short term courses/workshops/Seminars/Conferences and so on to refresh their abilities and information and deputing the staff individuals for higher investigations. Advantages like Study Leave, Vacation, Medical leave, Maternity Leave, Paternity Leave, Group insurance, Advance against pay, P.F., convenient pay/increases/D.A.
Industry Interaction / Collaboration	To inculcate the research and development opportunities, Industry-Institute- Initiative is started. In this various activities like Memorandum of Understanding(MoU) with various companies, Conduction of Seminars/Expert lectures/Guest Lectures, Project sponsorship for BE students, Internship for TE and BE students, Industrial visits and Project Competition (I-RISE) are conducted.

Admission of Students	The Admission process is centralized controlled by the Admission Regulating Authority (DTE), Maharashtra State. All the processes are in place in the centralized admission process of Govt. of Maharashtra. College magazine, Brochure of the Institute, departments have been prepared to showcase various activities and facilities of Institute time to time. Institute is an authorized NEET Exam Center. Counseling of students and parents is done by Faculty.
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6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	Planning and development activities are fulfilled as per the requirement of the SPPU, DTE, UGC and AICTE from time to time.
Administration	ERP based software eTimeTrack-lite is used for administrative purpose also like Biometric attendance monitoring for Employees.
Finance and Accounts	Finance and accounts section uses Tally and excel for carrying out various accounting activities. Accounting activities carried out using Tally. ERP 9 software.
Student Admission and Support	The Admission process is centralized controlled by the Admission Regulating Authority (DTE), Maharashtra State. Student admission and maintenance of data is done through ERP software. Library is using SOUL 2.0 Integrated Library Management System software for Library Automation.
Examination	SPPU Pune university schedule two on-line examinations in each semester for FE, SE students which are conducted at the institute through the online portal. Google Classroom is used to conduct online tests of students.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	kailash Karad	NPTL Certificate Exam Fee	Nill	1200

2019	Deepak Raut	NPTEL Certificate Exam Fee	Nill	1100
2019	H. B. Wagh	Registration Fees for Workshop at MMCOE, Pune	Nill	940
2019	Monika Deshpande	Registration Fees for STTP at SVNIT Surat	Nill	5000
2019	S K Mahajan	Registration Fees for STTP at SVNIT Surat	Nill	5000
2019	R. R. Chakre	TA/DA for STTP at SGGS, Nanded0	Nill	3575
2019	D. B. Zoman	Workshop at KKWIOER, Nashik	Nill	1500
2019	R. C. Samant	FDP at KKWIOER, Nashik	Nill	600
2019	S. S. Suryawanshi	One Day Workshop, ZCOE, Nashik	Nill	1050
2019	J. M. Sonawane	One Day Workshop, ZCOE, Nashik	Nill	1050
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Skill Building Program on Arduino	-	20/08/2019	22/08/2019	3	Nill
2019	PCB Design and Fabrication	-	23/08/2019	24/08/2019	3	Nill
2019	Two day State Level Workshop on Renewable Energy Systems:	-	09/08/2019	10/08/2019	50	Nill

	Design and Challenges					
2020	Two day National Level Seminar on Energy Storage Systems: Design and Challenges	-	24/01/2020	25/01/2020	70	Nil
2020	One Day Workshop On Formulation of Course Outcomes	-	11/01/2020	11/01/2020	17	Nil
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
FDP on Latest Wireless and Computing Technology	1	14/04/2020	18/04/2020	05
WhatsApp Outcome Based Education Faculty Development Program	5	24/03/2020	14/04/2020	21
Reverse Engineering for Product Design	1	06/01/2020	10/01/2020	05
Role of Condition Monitoring in Industry 4.0	1	28/12/2019	29/12/2019	02
Exploring Research topics and Techniques of Technical Writings	1	25/12/2019	29/12/2019	05
NPTEL FDP on Remote Sensing and Digital Image Processing of Satellite Data by IIT Roorkee	1	26/08/2019	20/09/2019	26

Renewable Energy System: Design and Challenges	1	09/08/2019	10/08/2019	02
NPTEL FDP on Principles and Techniques of Modern Radar Systems by IIT Kharagpur	1	29/07/2019	10/10/2020	81
NPTEL FDP on Computational Electromagnetics by IIT Madras	1	29/07/2019	18/10/2019	81
Geosynthetic testing Laboratory-NPTEL FDP-4week01	1	29/07/2019	23/08/2019	25
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
81	23	21	11

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Gratuity, Maternity Leaves, EPF, Group Insurance, Uniforms, Travel grant for attending international conference in India, Payment of registration fee and permission to attend Workshop/ Seminar/ Training Programs, Permission for Qualification upgradation these all welfare schemes have been provided by institution	Gratuity, Maternity Leaves, EPF, Group Insurance, Uniforms, Payment of registration fee and permission to attend Workshop/Seminar/Training programs, Permission for Qualification up-gradation	Registration fee and permission to attend Workshop/ Seminar/Conferences National Level Congress/ Training Programs/Sports, Academic Prizes.

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 auditors are appointed by the parent trust Gokhale Education Society. The institution is having qualified practicing Chartered Accountant as an auditor who audit the accounts annually to check verify the Vouchers, Ledgers, Bank Accounts Cash Book, Tuition Fee Reconciliation, Fixed Assets, Investments and Advances etc. Income Expenditure Balance Sheet is thoroughly checked by an Auditor., the final audit report is sent to the management for review. External Audit has been done by S. V. Ginde CO.Chartered Accountant, Mumbai on 31/03/2019.

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
Quick Heal Foundation	165600	Training Placement
View File		

6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	S and A Certifications	Yes	Internal Auditors team
Administrative	Yes	S and A Certifications	Yes	Internal Auditors team

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

Parent meet is conducted every year department wise for all students once in a year. Few parents from industrial background help students in project, inplant training and industrial visit. Also, contribute in the development of institution by conducting seminars on recent trend and problem faced by Industry. Many parents constantly give their suggestion in DQAC.
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6.5.3 – Development programmes for support staff (at least three)

1. Training of different conferencing tools like Google Meet, Zoom, Cisco Webex for online classes.

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

i)Startup and Innovation cell(Incubation Cell) ii)Project Exhibition iii) NPTEL Certification iv) Department of Electrical Engineering accessed for NBA accreditation. Vi)Internal and External ISO audit (AAA) Vii)Outcome Based Education

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	One day training programme on "NBA Evaluation Process and	21/09/2019	21/09/2019	21/09/2019	48

	Preparations				
2019	Quality Audit by NBA Peer Team	20/12/2019	20/12/2019	22/12/2019	390
2020	Project Exhibition "IRISE"	18/02/2020	18/02/2020	18/02/2020	48
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Womens Empowerment	09/03/2020	09/03/2020	95	Nill

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
1.Total electricity units required for college - 40109 2.Total solar unit generated - 14500 3.Total electricity bill paid for unit - 25609 4.Saving due to solar installation - 36.15 5. Solar power exported to MSEB in units -14500

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1450
Provision for lift	Yes	1235
Ramp/Rails	Yes	112
Rest Rooms	Yes	1130
Scribes for examination	Yes	1

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
2020	1	1	07/07/2019	01	Ph.D. Entrance	Examination	220
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of conduct	15/06/2019	Our college uses code of conduct prepared by

Savitribai Phule Pune University which was published on 6/09/2016. In our college number of activities are carried out to percolate human values in students and to build social responsibility, leadership such as International Women's Day, Water conservation, Blood Donation Camp, Intercollegiate sports (Cricket) competition, Ganesh Murti Collection, International Yoga Day. Uniform is compulsory for Students. Also committees are formed to maintain freedom of thought, accountability and transparency such as vishakha committee, Anti-ragging committee, Sport committee feedback analysis committee etc.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
YOGA Day	21/06/2019	21/06/2019	10
Independence Day	15/08/2019	15/08/2019	113
Swami Vivekanand's Jayanti	25/09/2019	25/09/2019	110
Republic Day	26/01/2020	26/01/2020	119
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Environmental Consciousness and sustainability Sustainability has always been one the core principles of the institute. It is reflected in its culture as well as the way we nurture the environment within the campus. The institute has taken initiatives to implement green practices that will inspire and encourage the proactive approach towards protection and conservation of environment. The institute does not conduct a third-party environmental audit in a formal way. However, we ensure effective implementation of environment friendly activities focusing on various aspects of environmental conservation Conscious efforts have been taken by the institute to improve its environmental performance on continual basis. These initiatives include waste management, sustainable water use and enhancement of biodiversity within the campus. Waste management steps include following initiatives. 1. Solid waste management The institute focuses on waste management by focusing on 3 R principle ie Reuse, Recycle and Recover. For effective implementation of recovery and recycle calls for separate waste collection based on its characteristics and further treatment in most beneficial way. The paper waste is collected separately, shredded by a heavy-

duty shredder and reused for pulp manufacturing. Previously, it was a practice to collect the organic waste separately (from canteen and hostel mess) and dispose of as Municipal Solid Waste. In 2018-19 to shoulder the responsibility of onsite solid waste management, an in-vessel composting was started. Ecoman's foodie is a compact composting machine which generates compost from organic waste in 24 hours with volume reduction of 85-90. The composter processes kitchen waste, yard waste, garden trimmings, grass and food waste efficiently and recycle the nutrients from the organic waste. The excellent quality manure is utilized for landscaping and gardening. 2. Liquid waste management Liquid waste management includes systematic collection and conveyance of sewage including grey and black water. Wastewater from washrooms, canteen, hostel, mess library is collected through closed conduits in septic tanks. The waste water is further discharged into public sewer. 3. E-waste management Marginal quantities of electronic waste is generated mainly from computer, Electronics and Electrical department. This includes electrical and electronic components like CDs, batteries, PCBs and cables etc. The waste is separately collected and stored for further safe disposal. 4. Rainwater harvesting Rainwater harvesting is one of the important pro-environmental initiatives. The rainwater from the paved area and roof top are collected from the rain water collection drains and the collected rainwater is used to recharge the wells in the campus. 5. Green Practices The green practices include conducting nature trails, debates, poster making and presentations on various topics pertaining to environmental issues.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

7.2.1 - Describe at least two institutional best practices

Best Practices Two institutional best practices:

Title of the practice: Industry Institute Interaction and Skill Development

Objectives of the practice:

1. To instil inquisitiveness amongst the students to acquire advanced technical skills.
2. To cater the need for interaction and exchange of ideas between the industry and institution.
3. To impart industry specific skill set
4. To expose the students to occupational challenges.
5. To develop teamwork culture to enhance practical skills of students and improve presentation and soft skills.
6. To motivate the students for learning new technologies, promote creativity and sharing of new ideas.
7. To be able to implement innovative, interdisciplinary projects and solve live problems concerned to industry or useful to the society.

The Context: This institute is committed to impart quality technical education with ingrained ethical values. Knowledge and skills are the driving force of growth and development of students. We believe that skill development enhances the efficiency, quality of the students and imparts confidence in them. Guidance by industry experts and faculty enables to identify the skills to be enhanced so that students can improve their ability to face challenges and encash opportunities in today's technical world. Industries are the major stake holder for technical institution. The basic criteria, skill sets and knowledge base desired by the industry in the prospective candidates were analyzed through continuous industry interactions and subsequently used for implementing skill development program. The desired skill set includes:

1. Observation Skills
2. Communication and Presentation Skills
3. Use of Instruments for measurement and analysis
4. Design, Implementation and troubleshooting skills
5. Logic development and Programming skills

The Practice: The desired skill set are arranged in the form of regular activities at different levels of student's Engineering curriculum.

Bridge course : At the first year level "Bridge course" is arranged for the newly admitted students. It is planned to highlight how engineering knowledge can be applied in solving the problems of mankind or creating something useful for society. The schematic track of content of curriculum and its interdisciplinary application areas are introduced so that the student should understand importance of engineering at

their beginning stage. Student Seminars: At Second year level, students are asked to form teams and select a domain of their interest. They prepare presentation of any advanced topic in that domain under guidance of allotted faculty member and present it in front of all other students and staff. These presentations are evaluated and suggestions are given to the students at the same time. Workshops: At third year level, technical hands on workshops like PCB layout designing and PCB fabrication, Arduino Application development, Analog and digital Circuit Design and Testing, Software tools for Modelling and Analysis of Civil structures, Programming using C, C++, PHP, Python, Android Application development etc. are designed and implemented to enhance the practical and application oriented expertise. Most of these workshops are conducted free of cost. Theme based lecture series of industry experts are arranged for the students. In-plant Training: Our faculty members have healthy interaction with the industries and every year students of third year are undergoing In-plant training of 2-3 weeks in assigned industries. Students understand the whole product manufacturing cycle. They experience the nature of work in respective industry. Students understand all product details of the industry, manufacturing technology used, testing systems. Along with the student group, faculty member is also assigned to visit the industry and accompany the students while In-plant training. They help the students to correlate the conceptual knowledge from curriculum to the practical knowledge. Project Exhibition I-RISE: For all students of final year, soft skills training is provided along with practice sessions like group discussions and mock interviews. Institute level project exhibition "I-RISE" and department level project exhibitions are arranged to showcase the innovative projects implemented by students to the industry experts. Students interact with the industry experts and refine their projects to appropriate level. Interdisciplinary projects are encouraged. Problems encountered and resources required 1. Sometimes students are from rural background, they do not open up and hesitate to practice and communicate in English 2. Faculty has to spare time and prepare course structures and all arrangements for hands on workshop while doing their regular work. Evidences of success: 1. Skill development workshops, mock interviews and group discussion sessions conducted for students are appreciated by students and industry experts visiting the campus. 2. Number of students implementing Interdisciplinary Projects is increasing. 3. Placement count is increasing as the students are possessing some skills according to industry requirements 4. Increased participation of students is observed in technical competitions. 5. Increased industrial involvement in assigning problems to the students for finding feasible solutions. 6. Students become confident while facing the interviews as per the feedback given by students after facing placement interviews. 7. Overall personality development of students is observed 8. Increase in the number of Memorandum of Understanding (MoU) of the institute with industries. 9. Students are encouraged for starting their own start-up firms.

7.2.2 Title of the Practice: Motivation For Research Objectives of the practice: 1. To identify the research areas. 2. To motivate the faculty and student to conduct research activities. 3. To build the awareness about various funding schemes and to motivate the faculty to write good research proposals. 4. To inspire the staff to pursue higher studies specially Ph.D. 5. To organize conference, workshop, seminar and departmental technical events to create awareness among faculty and students. 6. To organize the visits to research centres and industries. 7. To encourage for the consultancy services in related areas. 8. To motivate the faculty to present/publish the research paper at reputed conference/journals. 9. To develop research culture in institute and lifelong learning skills among students. 10. To establish innovation centre, research centre in the institute. The Context: Our Gokhale Education Society is the society totally managed by teachers and has always believed in empowerment and development of teachers. World-wide engineering standards require involving participation of

faculty and students in the planning and implementation process. Encouraging faculty to do research improves the reasoning skill of students in classrooms and awareness among the students about recent technological development in society, which in turn make the students one of the best engineers. By cultivating research culture among faculty and students, teaching- learning process can be implemented innovatively. There is better conceptual understanding of the subject among students. The research and industry based practices helps to develop practical exposure to the students. The Practice 1. It is necessary to inculcate research culture among faculty and student so as to develop a high quality engineers of global standards, however following mentioned practices are followed by our institute: 2. Eminent speakers from industries, Researchers and Scientists are invited to guide the faculty and students for developing good research culture and activities. 3. Institute sponsors and deputed the faculty for attending FDP, STTP, QIP workshops, symposium, national/international conferences etc. 4. Institute encourages industry and research centre's visits and motivates for sponsored or industry based projects. 5. The experts from Universities, Industries and Autonomous institutes and eminent scientists have visited the institute and interacted with the faculty and students and created awareness about the research scope. 6. Institute organizes departmental symposium and provides platform for students to enrich their talents through various activities such as paper presentation, projects, mathematical quiz, poster competition, gaming and robotics competitions etc. 7. Institute faculties are motivated and doing Ph.D. at various universities and reputed institutes developing research culture, this improves contribution in research by publications. 8. Students are also motivated to participate in university, zonal and state level technical competition. Problems encountered and resources required: 1. Limited funding agencies are available due to non-accredited status. 2. Numerous books, journals and e-books are available in library as resources. Evidences of success: 1. Faculty members are motivated for research work and some faculty members have applied for research grants. 2. Number of Publications in reputed journals and conferences by the students and faculty members has been improved. 3. Students are motivated for implementing innovative projects. 4. Increase in number of students achieving success in various technical competitions. 5. Success in achieving better placements for students.

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

<https://ges-coengg.org/criteria-7-agar-2019-20/>

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

As per our vision of Producing World class Engineers for converting global challenges into Opportunities through "Value Embedded Quality Technical Education", institute has stepped up efforts to achieve employability enhancement and entrepreneurship development. This is the targeted outcome of our mission to impart Technical Education through effective Teaching- learning process. 1. Employability Enhancement Industries are increasingly turning to recruiting qualified candidates having innovative capabilities. Considering these aspects, our institute has developed a powerful placement pool in collaboration with other institutes and various engineering industries and companies. We facilitate the students for development of skills desirable for placement, specifically ?Communication / Presentation Skills. ?Problem-Solving and analytical ability. ?Team Work. ?Leadership Skills. Students who have undertaken engineering degrees with internships can be productive and contribute from day one. During vacations, our institute in collaboration with

local industries organizes In Plant Trainings to prepare the students for future employment. Main objective is students should get employed in any capacity including production, quality control, process analysis, plant maintenance, design or research. Considering these aspects and though internship is not mandatory our institute fully supports internships/in plant trainings and other related activities to increase the employability of students. Placement Data Analytics of successive five years has proven our efforts. 2. Entrepreneurship Development ?An entrepreneur is an individual who develops own venture or business. They are innovators who understand how to capitalize on opportunity. Entrepreneurship is an important part of being an engineer many of our students have started their own companies as a result of an idea sparked by creative thinking. It fulfills our mission To Nurture Creativity Critical thinking in applying Engineering skills to face the fast growing globalization. Start-Ups We always endeavor for Industry-Institute-Interaction for the enhancement of academic knowledge and technical skills. Students are consistently encouraged to practice what they have learned and to develop their professional attribute, corporate philosophy and true human potential. Uptill now, 15 startups are established by our students. 3. Research Orientation Capacity building refers to establishing resources required to fulfill a mission or achieve a goal. Institute consider it as a process of developing and strengthening the skills, instincts, abilities and resources that one need to survive, adapt and thrive in the fast changing world of technology. Our Institute supports the capacity building for faculty by adapting the Research Environment, Industrial Training and Consultancy Services. Industrial Training: Institute facilitates industrial trainings to the faculty and students. It aims to build up in-house advisers to inspire students for startups. Major objectives are: ?Acquisition and development of skills, competencies and attitudes ?Hands-on learning research/evidence based, and instructional strategies that are aligned to industry skills. ?Determine best practices in technical education program for students' capacity building. ?Supervisory support and organizational support for students' career development. Consultancy Services: Institute strives to develop knowledge, expertise and abilities to support sustainable development through consultancies. Major objectives are: ?Technical assistance to developing industries and companies. ?Funds generation. ?Opportunity to get technical problems for projects / placement of the students.

Provide the weblink of the institution

<https://ges-coengg.org/criteria-7-agar-2019-20/>

8.Future Plans of Actions for Next Academic Year

The following are future plans for next academic year 2020-2021 1. NBA activities and OBE practices were initiated for all programs: Internal assessment of OBE to assess the quality in the teaching learning would be executed 2. Quality assurance program ISO 9001:2015 will be continued for next academic year. 3. Industry Institute Interaction Activities: To enhance the industry institute interactions activities in line with the department. Due to pandemic an urge is initiated for upliftment of the technologies. Industrial collaboration would be strengthening the fulfillment of this urge. Industry experts talk shows and Alumni talk shows and expert guidance sessions would be arranged and reports would be submitted by October 2021. 4. A:- Student Training: A: All departments are supposed to initiate activities related to training the TE/BE students for the competitive exams like GATE, IES GRE, TOFEL etc. The appropriate professional agency may be consulted. B: - All departments will submit the plan for soft skill training programs by March 2021 to be implemented for the students to escalate placement. Accordingly the plan of action will be prepared. C: - Students to be promoted for national and international level activities like smart India hackathons, BAJA SAE etc. 5. Entrepreneurship activities: Like the previous year

this year too, the departments will identify passed out students who are self employed and invite them for consultation with our graduating engineers. Industry institute linkage will enhance motivation for students likely entering the start ups after their graduation. Professional entities on the entrepreneurship development may be consulted. Startup innovation cell and entrepreneurship development cell would be enhanced and promoted in the new space. 6. NPTEL course registration and completion is a regular activity and hence every faculty and students are motivate to take up professional courses to enhance their skills 7. Research and development: - Research journal Publication RD activity needs momentous improvement. The faculties will have to publish at least two research papers annually and at the same time BE students must be encouraged to publish their project work at suitable conference/publication agencies. ME students are publishing their research in PGCONS and have to publish in appropriate journals and conferences. The staff members will be motivated to prepare research proposals and send it to funding agencies. 8. Self improvement activities like FDPs, STTPs webinars conferences etc to be strengthened. Every faculty should attend at least 2 FDPs/STTPs in a year. 9. In continuation to previous years plans, the learning of the students would be strengthened by focusing on recorded video lectures by eminent personalities. All the faculties would be encouraged to create and upload their lectures in soft form (video). The institute will facilitate the domain for digitization. This will improve quality in education and will benefit students and faculty of the institute.